

ALL NEW! 3,000 PRODUCTS; 264 FACT-FILLED PAGES

HIGH FIDELITY'S **Buying Guide to** 1980 Edition **Stereo Components**

\$3.95
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5 KEYS TO SUCCESSFUL STEREO

- Which Components to Buy First
- How Much Should You Spend?
- What One Tape Type is Best?
- Secrets of Super-Sounding Stereo
- Simple System Repairs You Can Make

PLUS SPECIAL REPORT

**How to
Stretch Your
Car Stereo
Dollar**



Ohm's Law 7:

Big bass sound can come from small bookshelf loudspeakers.

Among loudspeaker manufacturers, traditional wisdom has it that you need a big woofer in a big cabinet for really deep bass.

Once again, Ohm has defied the traditional laws of loudspeaker design.

The Ohm L is a compact, reasonably-priced, vented loudspeaker which rests comfortably on a bookshelf.

Yet, its bass response is absolutely flat to 42 Hz. And it can be driven to loud levels with as little as 15 watts rms. (That's only *half* as much power as a comparable acoustic suspension system needs.)

But there's more to an Ohm L than superlative bass and high efficiency in an easy-to-live-with size. Using time/phase matched drivers, and Ohm's phase consistent crossover, the L achieves a highly coherent sound that many expensive, widely-advertised "phase aligned" systems can only envy.



The Ohm L woofer; output capacity unmatched by any other 8" woofer we've tested.

Here's what the audio critics have said about the Ohm L:

High Fidelity Magazine:

"In listening tests, the Ohm L's aspirations ex-



ceeded those expected of its price class by a notable margin. The overall sound is solid, yet transparent and detailed. Deep bass is tight, with a sense of ease that is maintained to relatively high listening levels... Stereo imaging is excellent - to the point where the sound seems totally detached

from the speakers."

Sound Advice:

"This speaker also rates high in depth, ambient reproduction, and airiness... the L is a very musical speaker, does a good job with the delicacy of orchestral and choral music, has great dynamic punch, is quite efficient (8 watts for 100 dB at 3'), sounds good in a small room... and absolutely blooms in a large room (output to spare)."

Stereo Review:

"The Ohm L, though diminutive beside many of the floor-standing or oversize 'bookshelf' speakers we have seen, sounded in every way like a full-size system. Blindfolded, one would never guess its compact dimensions." (Copyright 1977 by the Ziff-Davis Publishing Co. Reprinted from *Stereo Review* June, 1977 by per-

mission. All rights reserved.)

Sound (Canada):

"...This is a loudspeaker which, despite its small size, manages to sound large... The high frequencies are crisp and one listener remarked that one could count the wires on the brushes. The low frequencies are well-controlled and there is a very good compromise between sensitivity, damping, and low bass. The lows are strong without deteriorating into the one note variety and deep without becoming lost by over-damping."



For 13 complete reviews, and full specifications, please write us at Ohm Acoustics Corp., 241 Taaffe Place, Brooklyn, N.Y. 11205.

We make loudspeakers correctly.

HIGH FIDELITY'S Buying Guide to Stereo Components

1980
Edition

Editorial

What's in it for you? Plenty! 2

Glossary of Technical Terms 7

5 Keys to Successful Stereo

What to Spend and

How to Spend It by Ivan Berger

A step-by-step budget-conscious plan
for purchasing a home stereo system 17

Secrets of Super-Sounding

Stereo by Edward J. Foster

Straight facts on how to set up your
components for top performance 23

How to Troubleshoot Your

Stereo System by Howard Roberson

Simple, money-saving steps you can take
to prevent and fix most common problems 30

The Right Way to

Buy Car Stereo by Robert Angus

Stretch your dollars by knowing the
most important questions to ask 39

What Type of Tape

Should You Use? by Larry Zide

The vital ingredients are the music
you record and the deck you record it on 44

Buying Guide to More Than 3,000 Audio, Video, and Car Stereo Components

**How to Use Our
Buying Guide to Save
Time and Money** 49

Amplifiers

(Integrated Amps, Power Amps,
and Preamps) 51

Tuners 75

Receivers 82

Tonearms 97

Phono Cartridges 100

Turntables 108

Open-Reel Decks 122

Cassette Decks 126

Speaker Systems 141

Equalizers 189

Headphones 194

Microphones 200

Car Stereo Radio / Tape

Decks & Tape Decks 206

Car Amplifiers

(incl. power boosters, equalizers,
and amp/equalizers) 220

Car Speakers 229

Video Cassette

Recorders 240

Signal Processors

(incl. noise-reduction units) 244

Open-Reel Raw Tape 249

Cassette Raw Tape 250

Video Raw Tape 254

System Accessories

(incl. phono & tape
care products) 256

Editorial

What's in it for you? Plenty!

For this, our second edition of HIGH FIDELITY'S BUYING GUIDE TO STEREO COMPONENTS, our staff of top audio writers has focused on key information you should know to get the most from a stereo system—both when you buy it and after you get it home.

The first step, of course, is figuring out what equipment to buy, how much to spend on it, and where to buy it. Ivan Berger takes you step-by-step through the process of deciding how much money to apportion for each component. Then he suggests what is the best strategy to use when purchasing a stereo system that is in keeping with your budget.

All the best equipment in the world won't sound its best unless it's connected and set up correctly. Simply reversing some wires or moving a speaker a few inches here or there may give your system a certain sparkle. Ed Foster has dozens of timely tips on this subject in his article "Secrets of Super Sounding Stereo."

And what happens when you turn the power switch on and nothing happens? Before you repack your equipment and rush it off to the repair shop, consider some of the home remedies Howard Roberson discusses in "How to Troubleshoot Your Stereo System."

If you plan to use a cassette recorder in your stereo setup, sooner or later you'll have to decide what tape to use. It's not just a case of buying the most expensive tape. That may be a waste of money. Larry Zide looks at the factors affecting your choice in "What One Tape Type is Best?"

Car stereo has literally exploded during the past year. It's not difficult to spend as much on a system for your car as you have for your home. But you're much more on your own with car stereo components, as Robert Angus points out in "The Right Way to Buy Car Stereo."

Whatever you're in the market for—audio, video, or car components—you need information on which to base your decisions. Our massive 200-page buying guide section gives you a head start. Specifications have been collected on thousands of new products from hundreds of manufacturers and assembled into more than a dozen categories. Our introduction to the section explains how you can best make use of the material.

Many of you who purchased last year's edition have written us, saying what a valuable buying/reference book it has proven. This year's edition is even more comprehensive and fact-filled, and we think it will prove a worthy addition to your bookshelf. —WT

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Cover equipment (clockwise from top): KEF 105 speaker; Crown Straight Line One preamp; Advent SoundSpace Control; Luxman T-12 tuner; Fisher RS-2007 receiver; ADC 1700DD turntable; Royal Sound RC-2000 car stereo control center; JVC KD-A8 cassette deck; Technics RS-M85 cassette deck; Pioneer SA-9800 integrated amplifier; Rotel RX-504 receiver; Mitsubishi M-A01 micro power amplifier.

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Bought expensive speakers?



Better not listen to ours!

However, if you're looking for incredible sounding speakers at an affordable price, by all means do! You will find that for less money than you planned on spending you can get much better sounding speakers than you dreamed you could ever afford. Polk Audio loudspeakers have received worldwide praise because people recognize that they offer remarkable value. Critical acclaim such as the following makes it clear why Polk speakers have become famous for offering the best possible sound for the money.

"Polk Audio is a small, Maryland-based company whose speakers enjoy an enviable reputation among audiophiles who would prefer to own such exotica as the Beveridge System 2SW-1 (\$7000 per pair) or Pyramid Metronome (\$5200 per pair) but don't have the golden wallets to match their golden ears!" *The Complete Buyer's Guide to Stereo/Hi-Fi Equipment*

"Audio experts know that the price of a speaker is not always directly proportional to its quality. Nowhere at CES was that fact more dramatically demonstrated than in room 900 of the Pick Congress where the folks from Polk Audio of Baltimore were demonstrating their speaker line..." *High Fidelity Trade News*

"They (Polk 10's) are a high definition speaker system deserving the very best associated electronics. And at their price, they are simply a steal!" *Audio Advisor-Audiogram*

Polk Audio loudspeakers, starting around \$125 each, are available at the world's finest hi-fi stores. Write us for complete information on our products and the location of the Polk Audio dealer nearest you.
Polk Audio Inc. 1205 S. Carey St., Baltimore, Md. 21230 Dept. B6
Distributed in Canada by Edon Acoustics — Ottawa



Monitor 5

Monitor 7

Monitor 10

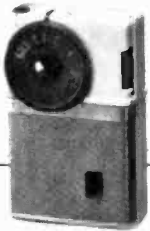
Real-Time Array 12
Reference Monitor System

polk audio
Monitor Series Loudspeakers

INCREDIBLE SOUND-AFFORDABLE PRICE

There is only one real pioneer

It's Sony.



1957:
The world's first pocket transistor radio.

In 1954, a fledgling Japanese tape recorder manufacturer visited America to investigate a new device called the transistor.

company that virtually founded the era of transistorized high fidelity—is still at its very forefront.

At first, things were less than encouraging. "Transistors are only good for hearing aids," they were told. "And besides, they can't be mass produced."

Undeterred, the Japanese representatives returned to Tokyo.

Thirty-six months later, the world saw its first pocket transistor radio.

Followed by the world's first all-transistor FM radio.

And, partially as a sign of their continuing dedication to audio, the Tokyo Telecommunications Engineering Corporation adapted the Latin word for sound—"sonus"—and changed its name to Sony.

In the years that have followed, Sony has never faltered in its dedication to technological innovation. And we'd be loathe to estimate how often our advances have ended up on the circuit boards and front panels of our competitors' equipment as "technological breakthroughs."

But enough of the past. The hi-fi components featured here stand as eloquent proof that Sony—the

The V5 receiver:

To this day, only Sony offers Sony quality.

Unlike hi-fi receivers designed to impress you with a facade of magic buttons and switches, Sony receivers are designed to impress you with rich sound.

Case in point: the V5.

In technical terms, the V5 delivers 85 watts per channel at 8 ohms from 20 to 20,000 hertz with no more than 0.07% total harmonic distortion.

In human terms, this means the receiver can reproduce every note of music any instrument can play with no audible distortion. And it can power two sets of speakers without straining.

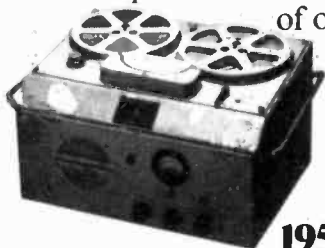
But that's only the beginning.

Instead of using the mundane power transformers found in competitors' products, the V5 utilizes more expensive toroidal core transformers that provide richer bass.

A few Sony Audio firsts:

- 1949:** Obtained patent on the basic magnetic tape-recording system.
- 1952:** Developed stereo broadcasting in Japan.
- 1954:** Introduced condenser microphone.
- 1955:** First consumer stereo tape recorder in Japan.
- 1959:** Invented "Tunnel Diode"; basis of all high-speed, low-distortion semi-conductors.
- 1965:** First all-silicon solid state amplifier.
- 1966:** The first servo-controlled turntable. Forerunner of quartz-locked turntables.
- 1968:** First electronic end of record sensor.
- 1969:** First digital-synthesized FM tuner.
- 1969:** Invented the ferrite tape head.
- 1973:** Invented the V-FET: Opened era of high-speed transistors.
- 1973:** First to manufacture ferrichrome tape.
- 1973:** Dr. Esaki wins Nobel Prize in Physics for "Tunnel Diode."
- 1975:** First turntable with carbon-fiber tone arm.
- 1977:** The world's first consumer digital audio processor.
- 1977:** First consumer amplifier with pulse power supply.
- 1978:** Patented liquid crystal recording meters.

1954:
The first Japanese transistor.



1950: Japan's first tape recorder, the "Type G."



1979: The V5 receiver: Designed for people who appreciate value as much as they appreciate sound.

in high fidelity.



Instead of cutting corners by using a flimsy pressboard bottom, we've cut interference by encasing the *entire* receiver in metal.

And for better FM reception, instead of using the standard three- or four-gang variable-tuning capacitor, we've opted for a higher quality five-gang model.

All of which explains why if you pay a few dollars less for one of our competitors' receivers, it's probably because you're getting less receiver.

The new Sony cassette decks: The state of the art, from the people who invented it.

Since we introduced tape recording to Japan in 1950, Sony has sold millions of tape decks.

A quick look at our new TC-K65 cassette deck will explain why.

Like all two-motor cassette decks, the TC-K65 is designed for low wow and flutter. Unlike others, however, we feature "brushless and slotless" motors that reduce this problem to the point of being inaudible.

Instead of using just any tape head material, the TC-K65 features Sony "Sendust and Ferrite" heads that combine wide response with extreme durability.

Instead of using an ordinary metering system, we've developed a 16-segment LED meter whose life expectancy far exceeds the fancy blue fluorescent models other companies are currently touting.

And there's also a "Random Music Sensor" for preprogramming tapes, settings for metal

1979: The new TA-F40 integrated amplifier and ST-J60 digital synthesized FM tuner. Separate components that sound as sophisticated as they look.

tape, remote control and timer capabilities, and the kind of high-quality D.C. tape head amplifier you'll find in almost no one else's tape decks.

But you really haven't heard anything yet.

Unfortunately, we don't have enough space here to tell you the complete Sony hi-fi story.

Like the way a recent dealer survey rated our turntables #1 in value and performance.

Or the way our new separate tuners and amplifiers (not to mention micro components) utilize highly advanced light-weight pulse power supplies

whose levels of distortion are virtually unmeasurable.

Or how they use a NASA developed "Thermo-Dynamic Cooling System" that eliminates heat, excess wire and the distortion and interference that normally accompany them.

If you'd like to hear more about the complete line of Sony hi-fi components (or if you need the name of your nearest dealer) write to Sony, P.O. Box CN 04050, Trenton, New Jersey 08650.

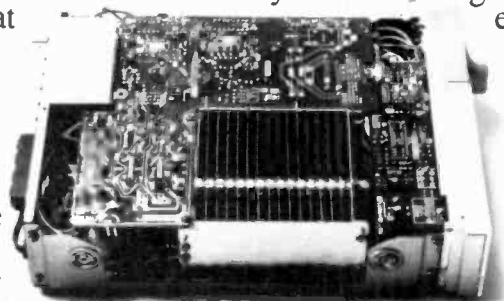
In the meantime, if somebody makes noise about innovations in high fidelity, think of the biggest pioneer in audio. And remember Sony.

SONY AUDIO

We've never put our name on anything that wasn't the best.



1979: The new TC-K65. Sony remains one of the only hi-fi companies to produce our own tape transports, motors, meters, heads—even the tape itself.



1979: The Sony "ThermoDynamic" Cooling System. Until now, only available in satellites.

The standard bearers.



The high bias standard.

In the past few years, these fine deck manufacturers have helped to push the cassette medium ever closer to the ultimate boundaries of high fidelity. Today, their best decks can produce results that are virtually indistinguishable from those of the best reel-to-reel machines.

Through all of their technical breakthroughs, they've had one thing in common. They all use TDK SA as their reference tape for the high bias position. These manufacturers wanted a tape that could extract every last drop of performance from their decks and they chose SA.



And to make sure that kind of performance is duplicated by each and every deck that comes off the assembly line, these manufacturers use SA to align their decks before they leave the factory.

Which makes SA the logical choice for home use; the best way to be sure you get all the sound you've paid for.

But sound isn't the only reason SA is the high bias standard. Its super-precision mechanism is the most advanced and reliable TDK has ever made—and we've been backing our cassettes with a full lifetime warranty* longer than anyone else in hi fi—more than 10 years.

So if you would like to raise your own recording standards, simply switch to the tape that's become a recording legend—TDK SA. TDK Electronics Corp., Garden City, NY 11530.

TDK
The machine for your machine.

*In the unlikely event that any TDK cassette ever fails to perform due to a defect in materials or workmanship, simply return it to your local dealer or to TDK for a free replacement.

Glossary

A/B test A listening test in which two similar audio devices (or program sources) are compared by rapidly switching between them while the rest of the system is unchanged, except for relative volume adjustment if needed. A/B tests are particularly germane in evaluating loudspeakers, although they also can reveal audible differences in any sound equipment.

alignment In a tape recorder, the physical positioning of a tape head relative to the tape itself. Alignment in all respects must conform to rigid requirements in order for a recorder to function properly. In an FM tuner, critical circuit adjustments that are needed for optimum performance.

automatic reverse Ability of some four-track stereo tape recorders to play the second pair of stereo tracks automatically, in the reverse direction, without need to interchange the empty and full reels after the first pair of stereo tracks has been played.

azimuth The angle of a tape head's pole-piece slot relative to the direction of tape travel. See "alignment."

balanced output An output, as from a microphone or antenna, in which the leads that carry the signal voltage are arranged symmetrically above and below a third neutral circuit or ground. This arrangement, in which a third conductor at ground potential is sometimes used, tends to cancel any noise picked up by long lengths of interconnecting cable.

bias 1. Antiskating; a force that counteracts a pivoted arm's tendency to swing inward. 2. A critical amount of voltage applied to a device to prepare it for correct performance. In tape recording, the bias is a steady-state magnetic field applied to the tape to enable it to respond more completely and more accurately to the fluctuating magnetic impulses of the audio signal. Although sometimes a DC (fixed-magnetic-polarity) field, the usual bias is provided by an ultrasonic alternating-polarity field of 50,000 Hz or higher frequency.

bidirectional microphone A microphone which is equally sensitive to sounds arriving at it from in front or in back but discriminates against sounds arriving at it from the sides.

capstan The motor-driven spindle that feeds a tape at constant speed past the machine's heads. The tape is usually gripped between the capstan and a soft-surfaced pinch wheel or "idler" to minimize slippage at the capstan.

capture ratio A tuner's ability, expressed in decibels, to select the stronger of two signals at or near the same frequency. The lower the number, the better.

cardioid microphone An essentially

unidirectional microphone having a heart-shaped "polar pattern."

channel separation The degree to which the signal in any one of a set of channels is kept apart from the signal in others. Expressed in decibels, the greater the number, the more the separation.

coercivity A measure of the amount of applied magnetic field (of opposite polarity) that is necessary to restore a magnetized body to a state of zero magnetism. High-coercivity tapes exhibit less tendency toward self-erasure and thus have enhanced high-frequency-response characteristics, but they are harder to erase completely.

compression A device that narrows the

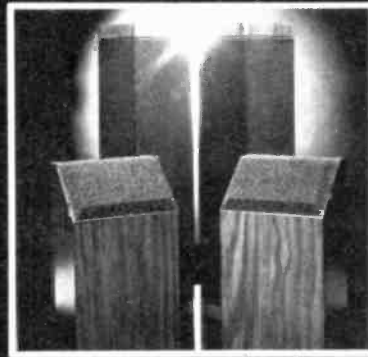
dynamic range of a signal, the opposite of an expander.

decibel Abbreviated dB, the decibel is a unit used to compare levels of signal power, defined so that power in decibels equal 10 times the logarithm (base 10) of the ratio of signal power levels. This equality of levels is stated as 0 dB, and 0 dB also indicates a reference level from which changes are measured. Note that a two-to-one ratio of power is 3 dB. The smallest change the ear can hear is said to be 1 dB, while a two-to-one change in apparent loudness is about 10 dB.

DIN Letters stand for Deutsche Industrie Norm and designate performance standards followed in Europe as well as the type

Audio Pulse Digital Time Delay is possibly the greatest advance in sound reproduction since stereo. A strong statement indeed, but we feel strongly about it. By means of time delay, the ambience of the live performance is returned to the music in a way not possible with ordinary stereo reproduction.

Stereo gave us left and right imaging—Audio Pulse gives us the realism of depth and spatial perception by digitally processing, delaying and



Audio
Pulse

recirculating program material through a secondary set of rear speakers. The apparent size and acoustic treatment of that area can be adjusted by simple front-panel functions.

Digital time delay must really be heard to be appreciated... but once you do, you won't want to listen without it.

Audio Pulse offers complete digital time delay systems. Model Two, the new Model 1000 and two sets of specially designed secondary speakers

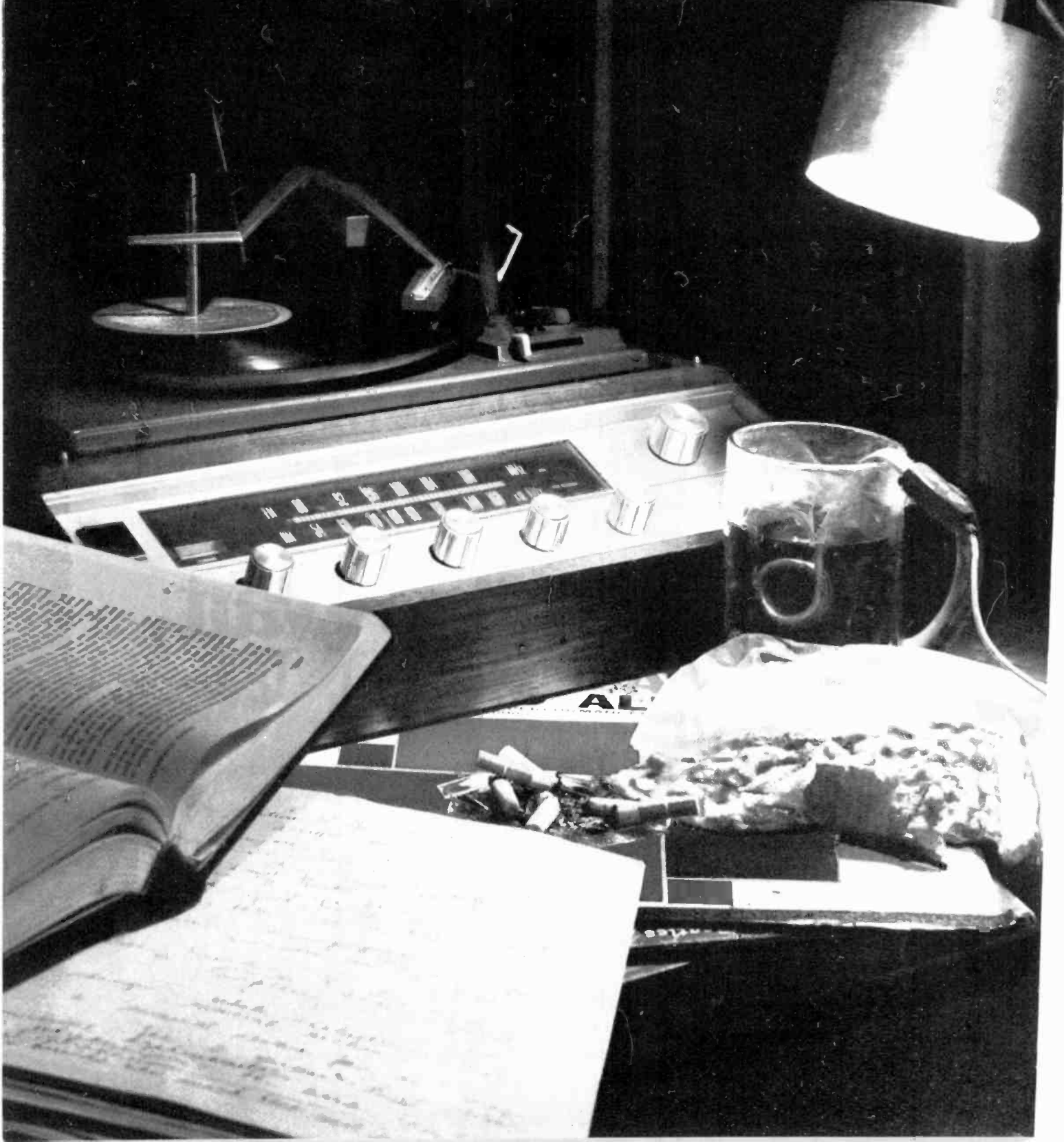
YOU WON'T MISS IT UNTIL IT'S GONE...

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Why Wait, Delay Now.



**It survived acid rock,
four years of college and
two kids.**



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Face it. Your old compact stereo has had it.

It played you some of the best music ever put on records, but now your ears and your bank account are ready for something better.

Not just shinier and louder, though. You want a stereo that gives you more sound quality. Not just more complication.

Now you're ready for JVC.

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Since we invented Quartz-Lock (the most accurate turntable drive system in the world), we can offer you one of the lowest price Quartz turntables on the market. We knew you weren't a recording engineer so we developed a Multi-Peak L.E.D. metering system that lets anyone make perfect cassette recordings. And we packed our equipment

with sensible safeguards like a Triple Power Protection circuit that keeps your speakers and amplifier from getting zapped. As well as circuitry that pulls in FM better than you've ever heard it on your compact.

So before you descend into the maelstrom of hype, hearsay and techno-jargon, call 800-221-7502 (in NY State call 212-476-8300) and discover your nearest JVC dealer. Or write to US JVC Corp., 58-75 Queens Midtown Expressway, Maspeth, NY 11378.

He'll open up a world of sound so wide you may foresake TV and reading for the joy of discovering new sounds on your old records, and amazing sounds on new records.

When you're ready for a world of music that real, you're ready for JVC.

Shown: A separates system with the A-S7 integrated amplifier (50w/ch, 20-20kHz, 8-ohm, .05%THD), T-V5 AM/FM tuner, QL-A2 Quartz-locked turntable, KD-A3 Metal-compatible cassette deck, SK-700MK II 3-way speakers in an LK-G342 roll-around rack with smoked glass door. A receiver system with the R-S5 receiver (25w/ch, 20-20kHz, 8-ohms, .05%THD) L-A11 belt-drive automatic turntable, KD-10 Dolby®* cassette deck, SK-300MK II 2-way speakers in an LK-G142 rack. *Dolby is a trademark of Dolby Laboratories.



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US JVC CORP

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When you listen to Sony headphones, you'll share an intimacy with the music you've probably never experienced before; you'll hear subtleties you've missed with most speakers.

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on anything that wasn't the best.



© 1979 Sony Industries, a Div. of Sony Corp. of America, 9 West 57th St., N.Y., N.Y. 10019 Sony is a registered trademark of the Sony Corporation.

CIRCLE 11 ON READER-SERVICE CARD

of unitized connecting plug and its mating socket in which a number of pins and holes enable more than one function or more than one channel to be handled by a single connector.

direct drive A type of transmission system in turntables in which the rotating platter is attached directly to the motor shaft without intervening linkages, belts, idlers, or gears.

directivity, speaker A tendency of some speakers to "beam" or reproduce less clearly and/or strongly off-axis as frequency rises. Multidirectional or "omnidirectional" speakers represent a design effort to avoid beaming and to radiate all frequencies uniformly.

Dolby A device that increases the signal-to-noise ratio of a recording medium by raising the volume of quiet passages in selected frequency ranges prior to recording, and lowering them to their original levels during playback, thus automatically reducing any noise introduced in recording or playback.

double-play tape Tape having half the thickness, and hence double the running time (for a given reel size) of "standard" 1½-mil tape.

equalization Altering the frequency or phase characteristics of a signal or audio device to meet specific requirements. In disc recording the bass frequencies are de-emphasized or reduced in amplitude to restrict the movement of the cutting stylus to practicable proportions within the narrow record groove. The treble frequencies, however, are boosted or pre-emphasized to overcome surface noise. The resultant response curve is known as the RIAA recording characteristic. In playback the inverse of this characteristic must be introduced to the signal for accurate reproduction, and suitable networks for doing so are built into all modern high fidelity equipment that has a "magnetic phono" input.

Equalization also figures in tape recording and playback. In fact, correct equalization together with correct bias are essential to realizing optimum performance from a given magnetic tape. The circuitry for doing this is included in the tape preamplifier supplied as part of a specific tape deck.

In FM broadcasting a certain amount of treble boost is added to the audio signal to suit it to the transmission medium or RF carrier wave. This boost is equalized by a de-emphasis network built into all FM tuners and receivers.

The term equalization also applies to special auxiliary networks or devices which, inserted into a playback system before the loudspeaker and/or power amplifier, may be used to modify the system's sound to compensate for variations in program material, room acoustics, and the response of individual components in the system. These devices can do so more precisely and more effectively than conventional tone controls.

expander A device that automatically widens the dynamic range of an audio signal, making loud passages louder and soft passages softer.

8 IMPORTANT REASONS WHY MORE PEOPLE BUY TOP QUALITY EQUIPMENT FROM INTERNATIONAL HI-FI THAN ANY OTHER MAIL ORDER COMPANY

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7. Fully staffed customer service department.
8. Over 70 top name brands... equipment most mail order and discount dealers can't supply.



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Kenwood has consistently made the significant technical advancements that make a difference you can hear. Like the first introduction of DC into integrated amplifiers.

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In our tuners, we've developed *Pulse-Count Detector circuitry* to digitally reduce FM distortion by half while significantly reducing background noise. You'll hear the difference in your FM reception as a more distinct, clearer sound. And only Kenwood has it.

In fact, every Kenwood component has exclusive features that improve sound quality. Like turntables with resin-concrete bases that virtually eliminate unwanted vibrations, and an extra-heavy, high inertia platter that keeps the record speed constant. And our dual-belt cassette decks that use a unique, extra-heavy flywheel for constant tape speed and better reliability.

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extra-play Originally, all recording tapes were 1½ mils thick, and a 7-inch reel would accommodate about 1200 feet of this for a half-hour of continuous recording at 7½ ips. The later extra-play tapes are 1-mil thick, and allow for 45 minutes of recording, or 15 minutes "extra."

flutter Rapidly-repeating fluctuations in tape or turntable speed that introduce spurious burbling, quivering or shimmering variations in the pitch of the reproduced sound. Flutter is effectively a more rapid form of "wow," and modern measurements of flutter include the "wow" content.

frequency response The measure of ability to pass signals of different frequency without affecting their relative strengths. This is shown as a graph or "curve" which assumes input signals equally strong at all frequencies, and plots their output intensities against a decibel scale. The ideal "curve" is a straight line (perfectly "flat" response). Frequency response generally is stated with specific decibel limits indicating the maximum deviations from flat response. For instance, 30 Hz to 18 kHz, ± 2 dB means that the audio device or system will not change the relative intensities of any frequencies within that range by more than 2 dB above or 2 dB below the ideal zero-dB (volume unchanged) point.

gain Any increase in the strength of an electrical signal, as takes place in an amplifier. Gain is measured as a ratio, often expressed in decibels. A gain of 6 dB in-

creases an input voltage to an output twice as large or quadruples the power.

harmonic distortion A form of distortion characterized by the addition of spurious harmonics to the signal. Expressed as a percentage; the lower the number, the better.

impedance Essentially, opposition to the flow of alternating current and consisting of "pure resistance" combined with inductive or capacitive reactances. Impedance values are specified for some components (such as microphones or loudspeakers) when it is important for their proper functioning that their interconnection with another component provide some specified termination or load impedance; expressed in ohms.

intermodulation (IM) distortion The introduction of spurious signals (sum and difference frequencies and harmonics thereof) as the result of interaction between two or more simultaneously reproduced tones, causing a smearing or veiling of the sound. Expressed as a percentage; the lower the number, the better.

limiter An amplifier whose output signal has a constant amplitude when the input signal is above a certain reference level, sometimes used to reduce the intensity of very-short-duration peaks (transient peaks) in an audio signal without audibly affecting dynamic range.

loudness Generally synonymous with volume, which is the intensity of perceived sound. "Loudness compensation" refers to equalization applied to a signal according to its volume in order to compensate for the ear's tendency to change frequency response at different listening levels. Loudness compensation typically boosts the bass, and sometimes the treble to a lesser degree.

monitor head A playback head that is separate from the record head, enabling the recordist to listen to what is coming off the tape a fraction of a second after it has been recorded. Without a monitor head, a tape must be recorded to its end and then rewound and replayed before the recordist can evaluate the tape.

peak bias That amount of bias current through the record head which produces maximum output from a tape at low and middle frequencies, for a given amount of audio signal to the tape.

phase-locked loop A device consisting of an oscillator locked in by a feedback control system so that it follows a reference (which may be an input signal), useful for FM demodulation, and stereo or CD-4 demodulation. It is extremely linear and wide-banded, and seldom needs realignment with aging.

power output The signal produced by an amplifier into a given load when fed with a given input signal. Power, expressed in watts, should be stated with reference to several qualifying factors—the impedance

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CIRCLE 3 ON READER-SERVICE CARD

Sansui is breaking up a very successful relationship. The TU-717 has a new mate: The AU-719.

Sansui has just introduced an exciting new integrated amplifier, the AU-719. It represents the very latest developments in audio and electronics technology. It is so good, in fact, that it has replaced its rave-reviewed, best-selling predecessor as the partner of the TU-717 tuner.

The TU-717's performance has been extravagantly praised by professional critics and knowledgeable consumers alike. With advanced features like switchable IF bandwidth and specs like 81dB signal-to-noise ratio and 0.06% THD, it's only natural.

We expect the tuner's new mate to receive a tremendous reception and set industry amplifier standards for a long time to come. Here's why.

INTRODUCING DD/DC

What particularly distinguishes the new AU-719 amp is Sansui's patent-pending DD/DC (Diamond Differential/DC) circuitry that provides the extremely high drive current needed to reduce THD by adding large amounts of negative feedback without compromising slew rate or adding TIM.

Slew rate refers to an amplifier's ability to respond to rapidly changing musical signals. The slew rate of the AU-719 is an astounding 170V/ μ Sec.

MAGNIFICENT MUSIC

Many modern amplifiers have extremely low total harmonic distortion specs. And that's important. But THD is measured with steady test signals and is not really representative of an amp's ability to deal

with music. Sansui alone, with its DD/DC technology, is able to provide both low THD and lowest TIM simultaneously. Instead of the harsh metallic sound you sometimes get on a conventional amp when the musical signals are complex, with the AU-719 you hear only magnificent music.

THD is less than 0.015% at full rated power of 90w/channel, min. RMS, both channels into 8 ohms from 10 - 20,000 Hz. Overall frequency response is awesome: DC - 400,000 Hz, +0, -3dB. Hum and noise are a super-silent -100dB on aux and -88dB on phono. The phono equalizer, which adheres to the standard RIAA curve within ± 0.2 dB from 20 - 20,000 Hz, also uses our unique DD/DC circuit for record reproduction that's second-to-none.

CONTROL YOURSELF

The unit is equipped with a full complement of versatile controls and connections to create the system and sound that's right for you, including two phono and two tape inputs, defeatable tone controls with switchable center frequencies, deck-to-deck tape dubbing and a very convenient 20 dB muting switch.

Audition the new AU-719 and matching TU-717 at your authorized Sansui dealer. We think it will be the start of a very successful relationship.

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Sansui





by Ivan Berger

What to Spend and How to Spend It

**A step-by-step budget-conscious plan
for purchasing a home stereo system**

Buying your first stereo system, or just considering some additions or replacements to your current setup? Either way, you probably already

Listen to the best speakers available, regardless of whether or not you can afford them.

realize that knowing what to spend and how to spend it conflict with each component's demands for your hi-fi dollar. Spend a little more on one piece and there's less to spend elsewhere. And prices for a particular component type—speakers, for example—can cover a wide range, from \$100 or so to several thousand. So how do you begin?

Start by setting up a temporary budget for the entire system. If this is your first system, keep it as basic as possible. Remember, you want good sound; you can add extras later. A good rule of thumb is to allocate one-third of your budget to your speaker system (the most critical element), one-third to a receiver, one-fourth to your turntable and phono cartridge, and the remaining for accessories, etc. (If you're getting a separate amplifier and tuner instead of a receiver, spend about one-fourth of your budget on the speakers, one-fourth on the amplifier, one-fourth on the tuner, one-fifth on the turntable and cartridge, and the remainder on miscellany.) Use these figures as a starting point—but only that. Components rarely cost *exactly* what you've allocated for them.

No question, the more places you shop for your hi-fi equipment, the more you'll learn from exposure to different flavors of opinion. But visiting too many is like seeking advice from a crowd—it's difficult to find a consensus. Sampling several should give you a reasonable idea.

But what kind of a dealer should you consult: an audio salon, a mail-order house, or a discount or department store? All have something to offer.

Discount and department stores offer low prices, with discounters often being the lower of the two. But remember, low prices result in part from low overhead. This may translate into less elaborate listening facilities, less knowledgeable clerks and less sophisticated in-house service facilities. Department stores usually stock fewer models than discounters. Although they too are unlikely to have service facilities, they usually are more helpful, since they want your business in their other departments.

Audio salons are, on the whole, the most informative of all hi-fi equipment sources. They have elaborate listening facilities with (in most cases) good acoustics; their salespeople know something about what they're selling; and they have the best service facilities. They also offer a wide selection, including many brands you won't find at discount or department stores, and are a good source for used-equipment bargains, usually with warranties. All this costs money, which means that you'll end up paying more. But it's worth it. In general, the more information and assistance you need, the more you should consider buying from an audio dealer.

If there are no dealers near you, then mail-order is your only choice. Mail-order prices are frequently low; on the other hand, their prices do not include shipping costs, and if your components ever need servicing, you won't have a specific dealer to go to.

Your first purchase should be a pair of speakers. They will be the heart of your system. It's not merely enough to spend one-third of your hi-fi budget on them; try to budget about half your shopping time as well. Listen to the best speakers available, regardless of whether or not you can afford them. Analyze what you hear, and how it differs from what you hear from less expensive, but quality speakers.

Judge how each speaker handles the bass, midrange, and treble, both separately and together. Bass should be clean and firm, but not omnipresent. Beware of speakers that seem to have "lots of bass" at all times. This is a sign of an overemphasized upper-bass resonance, and you'll quickly tire of it. If possible, listen to the speaker while using a record with a descending run of notes in the low bass (organ, cello, or string bass are good

sources). Reject the speaker if the notes stay at one pitch instead of gradually lowering until they die away.

If you want a lot of bass, you will have to compromise on some other aspect of speaker performance. Designers must trade off bass performance against speaker efficiency (which governs the power—and hence the cost—of your amplifier) and speaker size (which governs the cost of the speaker itself). That's one reason speakers with the best bass tend to cost more.

Treble should be high, clean, and "airy," with no tendency to spit, crackle, or sound harsh. (But listen to several records and sound sources to be sure that a particular problem isn't occurring elsewhere in the system.) Voices and solo instruments are good tests of midrange response—they should neither jump out at you (a sign of too much midrange "presence") nor recede into the background. Also, they should not sound hollow or nasal.

Wide-band noise is a good test of overall frequency balance. And every dealer demo setup has just such a noise source—an FM tuner. Set it to a frequency between stations, turn the muting off, and the interstation noise becomes, in effect, a crude noise generator. While you're listening to this noise source, walk across the speakers' sound field. If the sound appears to change only at the far edges, the speaker system has good high-frequency dispersion; if high frequencies fade out quickly once you leave their on-axis "beam," or if the highs fade in and out at several locations, reject the system.

Use these preliminary screening tests to determine which speakers are worth listening to more closely. Once you narrow your choice, restrict your listening to only two speakers at a time, and don't audition more than three or four speakers per session. This avoids mental confusion. During each comparison, try to verbalize how each speaker sounds—it's easier to remember that way. It also helps to write down your impressions. And don't forget that the speaker system you choose will bear directly on what amplifier you'll need. Thus, it's a good idea to check out your final choice with a number of different amps to make sure you'll be pleased with the combination.

You can, of course, save money on speakers if you buy them in kit form, as a used pair, or a model that has been damaged or discontinued. How do such buys stack up?

Kit speakers, of course, are hard to evaluate, unless you can find someone with a finished pair that you can listen to. Actual construction generally requires little electrical skill and knowledge, but you do need some skill in wood handling and finishing. Some kits include only the drivers and crossover kits, and you must construct the enclosures from scratch. So make sure you know whether or not you're getting one that includes precut wood panels.

Used speakers are probably the safest used-equipment buys. Speakers seldom "wear out" gradually—they usually suffer a component failure, such as blown drivers or rubbing voice coils. So a used speaker that sounds as good as a new one probably is, although it may not be covered by warranty, and may have a few scratches on its cabinet. New speakers are sometimes marked down because of scratches. But they don't affect the sound. If a speaker drops in price because it is being replaced, you can expect the replacement to sound better. But if you like the sound, why not buy it?

Amplifiers aren't perfect, but they are the most perfected components in the hi-fi chain. You can therefore narrow down your search to amplifiers with the power and the features that you need without worrying too

Don't forget that the speaker system you choose will bear directly on what amplifier you will need.

**There's no such thing
as too much power—only
too much for your budget.**

much about how they sound.

That doesn't mean that all amplifiers sound alike. There are subtle differences between them. If one sounds substantially different from the others, however, there's usually something wrong with it.

Let's start with just how much power you need. Your best bet is an amplifier falling somewhere in the upper half of your speaker's recommended power range. Amplifiers with less than the minimum recommended power are no bargain: you're more likely to run an underpowered amplifier at or near its clipping point, where it generates harmonics that not only sound harsh but can overload and burn out a tweeter.

There's no such thing as too much power—only too much for your budget. All music contains transient peaks far higher than the average sound level. Every dBW of amplifier power over and above the amount needed to reproduce the average power levels cleanly means fewer peaks will be distorted. But small peaks are more common than large ones, so doubling the power once does more to clean up the sound than would doubling it a second time. Jumping from 25 watts (14 dBW) to 50 watts (17 dBW) per channel may make an easily perceptible difference in listening fatigue; a jump from 50 to 100 watts (20 dBW) will be less perceptible. And so on.

Using our rather inefficient speakers, we've found the best sound *values* are in amplifiers delivering 50 to 100 watts per channel. But your ears, your listening levels, your room, and your speakers will be different.

The louder the listening levels, the longer you listen at that level; the bigger your room; the more sound-absorbent its furnishings; and the less efficient your speakers, the more power you will need. Bear these factors in mind when comparing what you hear from an amplifier in the showroom with what you can expect to hear when you listen to that amplifier at home.

One man's frill is another man's necessity when it comes to amplifier features. For example, you'll need a volume control and an input selector switch. Make sure that the selector switch gives you the right number and kind of inputs for all your foreseeable needs. Most people don't need more than one RIAA phono input; some need two or more, some need a moving-coil input. You may need "external processor" loops for use with noise reducers, expanders, equalizers, or other such devices. You can also use tape-monitor loops with these devices. But will that interfere with the way you plan to use them and your tape equipment? Will you need one tape monitor or two? And if two, will you need one- or two-way tape-dubbing facilities?

Bass and treble controls are standard equipment too. But perhaps you'll want something more elaborate—a three-control setup that includes midrange presence; bass and treble controls with switch-selectable turnover frequencies; or even a built-in equalizer.

Built-in five-band equalizers are about as complex as you'll want for tone-control use. More elaborate separate equalizers are better used for adjusting system and room response, then left alone. If you have a separate equalizer, you will not, of course, need tone controls.

Other amplifier features, such as filters and loudness compensation switches, also affect tone. High filters cut down tape hiss, record scratch, and some distortion. Ideally, they should start fairly high (around 12 kHz, and certainly not below 10 kHz) and roll off steeply—12 dB or more per octave. Otherwise, they are no more effective than your treble control. Low filters come in two types: "infrasonic" (which eliminates the effects of record warps and similar problems) and "low" (which reduces AC hum, turntable rumble, and some rumble on the discs themselves). Infrasonic problems occur in all systems; the others occur in some.

Most integrated amplifiers have speaker switches, so you can turn on a second set of speakers in another room, or turn all speakers off when using headphones. If you plan to use two pairs of speakers simultaneously, make certain that they are rated at 8 ohms impedance, at the very least. Lower-rated speakers will cause problems with your amp in this situation.

What matters most in tuners is how easily and precisely you can tune in a station. A station that is mistuned only slightly, loses all the benefits of superior circuitry and specifications to distortion. If you can't afford a digital-synthesis tuner (which only hits the FM channel frequencies, skipping the irrelevant frequencies between them), look for one with quartz or some other frequency-lock system. (If it's AFC, make sure you can switch it off, or you may be unable to receive weak stations that are adjacent to strong ones on the dial.) A center-channel tuning meter helps too—if it's properly calibrated (not all such meters are). Signal-strength meters are more useful in aligning your antenna than in precise, distortion-free tuning. Multipath, or signal-quality meters help even more.

A good antenna, especially a directional one that can be aimed for the cleanest signal pickup, is a must. A few dollars spent on that will pay off more than double that amount spent on a better tuner. That's especially true of rooftop antennas. If multipath is a problem in your area, you might consider a tuner with a high-blend switch, which takes out some of the high-frequency distortion without reducing stereo entirely to mono. Some tuners let you switch between wide IF response (for better fidelity on the uncrowded sections of the band) and narrow IF response (to filter out adjacent-station interference in more crowded sections).

The importance of the different FM tuner specs varies according to reception conditions in your area. If all the stations you'll want to listen to are nearby, you won't need ultra-high sensitivity. The greater the number of stations away from your immediate area, the more you'll need good sensitivity. If there are many FM stations nearby, you'll need a tuner with more selectivity than if the FM signals are few and widely spaced along the dial.

Multipath may be a problem if you live near tall buildings (as in cities) or near mountains. In this case, consider a tuner with the highest possible AM suppression and the lowest possible capture ratio. Image rejection is most important for those who live near airports, where interference from air-to-ground radio can be a problem. Spurious response rejection counts most when you live near a *very* strong signal source (within a mile of a transmitter, for instance).

Some tuner specifications are equally important everywhere: specifically, signal-to-noise ratio and distortion, which should be as high and as low as possible, respectively. And pay more attention to the stereo than the mono S/N and distortion specs.

Sure, a receiver costs less than a separate integrated amp and tuner, and saves you more money than a tuner plus a separate amp and preamp. But is it always your best buy? No, not always.

Receivers cost less because they use a single power supply and cabinet instead of two or three smaller ones. And they offer you a carefully balanced set of characteristics—a medium-performance tuner with a medium-power amp, a high-performance tuner with a high-power amp, and so on.

But suppose that balance isn't what you need either now or in the future? Separates give you the option of putting together a super tuner and a modestly-powered amp, for example, or a kilowatt and amplifier with a very modest tuner. They also let you start with moderate performance

The importance of different FM tuner specs varies according to reception conditions in your area.

Don't buy much more performance than you need, but never buy less.

and build up to higher performance, component by component. With a receiver, you'd have to trade in everything at once.

As with speakers, used, discontinued, and kit-built amplifiers, and tuners cost less. Are they worth buying? Used electronics are almost as good a buy as used speakers.

Discontinued models are apt to sound much like the new models that replace them, though the new ones may have additional features. The performance of a tuner is more likely to improve with each succeeding model than the performance of the amplifier, but the difference still may not be that significant.

Kits for amplifiers and turners take longer to build than do speaker kits, which means they have more steps and are more complicated. This kind of kit-building requires slow and careful work, so be certain you can handle the task before you choose to build a kit. Companies offering kits include Heath and Hafler.

If you have to choose between tape and a turntable, the turntable is usually a better bet. You'll find a lot more music available on disc—and with better sound and lower prices too. And a good turntable costs a lot less than a high-quality tape deck.

The main turntable specifications to worry about are wow and flutter, and rumble, which should be as low as possible. With cartridge specs you should check compliance, mass, and frequency response. A reliable dealer's recommendation is well worth considering in deciding which arms and cartridges work best together.

Where a manufacturer makes manual, semiautomatic, and fully automatic versions of essentially the same turntable, the price usually increases with the degree of automation. A "best buy" here would be the semiautomatic, which raises the arm when the record ends.

Oddly, manual operation is to be found in the most expensive turntables, while multiplay operation is found in least expensive models.

Buying a tape recorder is more complex. Here, the correlation is closer between what you spend and the sound quality and features you receive. A good quick test of record/playback quality is to record FM interstation noise, then compare the taped version to the original. The smaller the audible difference, the better the sound quality. But, of course, check the machine with some music too.

Recording is easier if the deck has wide-range level meters or bar-graph displays (the usual 20 to 25 dB range is a little limited) and switchable limiters to keep transients within bounds. Recording quality will also improve if your tape deck has a bias fine-adjust control and some means of calibrating the deck for best results with any tape.

Kits are rare in this department. Closeouts, however, are worth looking into—the march of new technology is currently a little faster here (especially in tape). This may mean that performance differs substantially between old and new models, but it often means more significant price reductions.

Used equipment? Well, anything with moving parts will wear, and the more complex the unit, the more likely it is that some part inside will need replacing soon. Direct-drive manual turntables (and, to a slightly lesser extent, belt-drive ones) are fairly good bets, as are automatic versions that use separate tonearm motors. Tape decks with three motors seem to last the longest, followed by two-motor decks; They're actually simpler in design than single-motor types.

Some final tips: Don't buy much more performance than you need, but never buy less. A hi-fi system that you don't enjoy is no bargain. Shop carefully and take your time. Get acquainted with the prices that prevail. That way, you'll know a bargain when you see one.

HF

by Edward J. Foster

Secrets of Super-Sounding Stereo

**Straight facts on how to set up
your components for top performance**

If you find that your new system, once it has been hooked up, does not sound as exciting as it did in the showroom, it's a good idea to check it over to make sure that everything is properly connected and that the speakers are placed in locations that will give you the best performance possible.

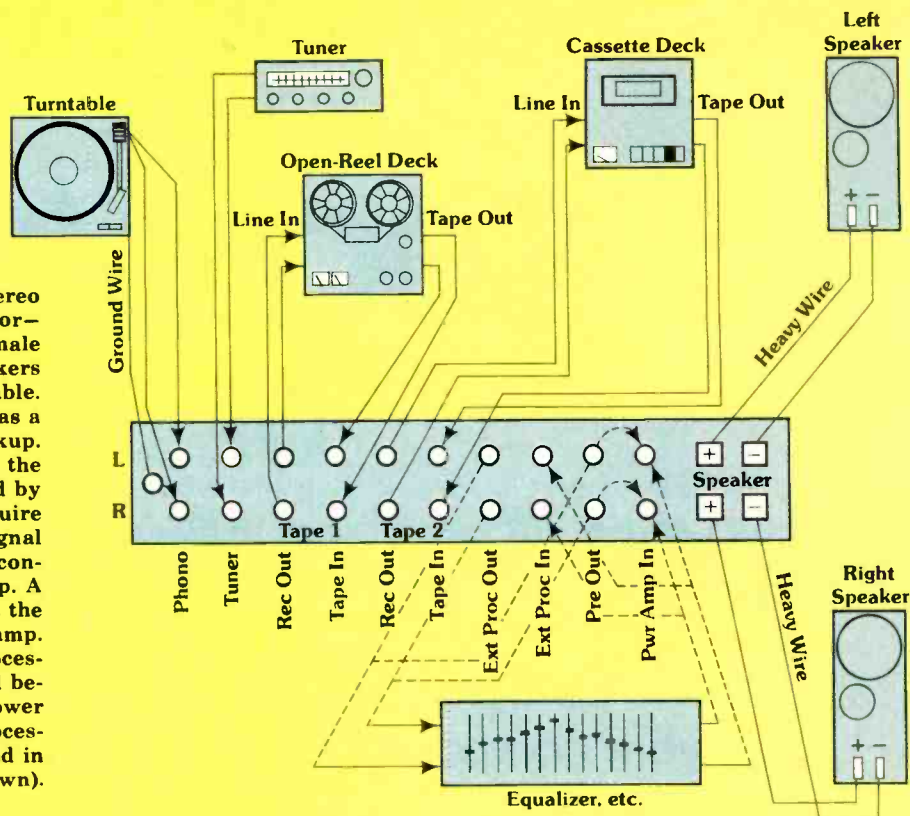
Hooking up your system requires a number of interconnections. Invariably, equipment sold in America is interconnected via cables that terminate on both ends with male RCA-phono plugs (sometimes called "pin plugs"). Some equipment also is fitted with multi-pin DIN connectors, but in general you're best off using phono-plug cables, which are available in high-fidelity stores or radio-parts outlets. These cables come in various lengths, with the plugs molded onto the wire for security. Each cable—consisting of a center conductor and an overlaid shield—handles one stereo channel, but usually two cables (with color-coded plugs) are molded together to form a stereo pair. Which color to use for which channel is unimportant. What is important is consistency. Once you've designated a color for a channel, use that throughout your system, otherwise you can easily end up reversing left for right.

Cables are usually supplied with the equipment, but sometimes they are either too short or are of inferior construction. When buying a cable, pick one of suitable length—long enough to let you move the equipment and check back-panel connections, but not too long for your particular setup. Avoid cables with an extra-long center pin; on some jacks, they don't seat all the way in. The center pin should extend about $5/16$ inch beyond the split-ring outer portion. (Long ones protrude about $1/2$ inch.) The outer ring should grip the jack sleeve firmly to assure a good connection. If it doesn't, remove it, squeeze it gently, and try again. (A loud hum on one channel may indicate a bad connection on the outer ring, which grounds the system.) Inserting and removing phono jacks with a twisting motion will scrape off oxide that can impair the connection. Clean a badly tarnished connector with steel wool or fine-grit sandpaper, but don't leave scraps of steel wool in the connector. And always

Fig. 1. Most interconnections in a stereo system are made with single-conductor-shielded cables that terminate in male RCA-phono plugs. However, loudspeakers must be connected with heavy gauge cable.

Two cables—often molded together as a single entity—are used for each hookup. One carries the left-channel signal, the other the right. They are distinguished by color-coded plugs. Tape recorders require two sets of cables: one to carry the signal to them for recording, the other to conduct the playback signal to the preamp. A single ground wire is used to connect the turntable frame to the chassis of the preamp.

External devices such as signal processors and equalizers may be connected between the preamp output and the power amp input or in a special external-processor loop. Sometimes they are connected in lieu of one of the tape recorders (not shown).



grip the cable by the molded plug. Yanking it may break the internal wiring.

Several "special" cables featuring gold-plated connectors and/or low-capacitance wiring are available. Gold is an excellent, tarnish-resistant, electrical conductor; it's also expensive. Gold needn't (and shouldn't) be physically abraded; you can count on it to remain a good conductor indefinitely. But best results are obtained only when gold-plated plugs are used on gold-plated jacks. While gold connectors are not a requirement, they do assure the best transfer of the very low signal levels generated by a phono cartridge.

Low-capacitance cables between high-level inputs and outputs are usually not required, unless your cable runs are very long (say, over 10 feet). However, if a piece of equipment has a high output impedance (greater than 5,000 ohms), low-capacitance cables may be needed to assure full high-frequency response on a 10-foot run. Fixed-coil phono cartridges are sensitive to the amount of capacitive loading they "see," and low-capacitance cables between turntable and preamp are often required. Most modern turntables have permanently affixed cables that should be sufficiently long enough to reach the preamp. However, if you must lengthen them, use female-to-female splicing connectors. We do not recommend lengthening the turntable cable unless absolutely necessary and then only if low-capacitance wiring is used.

The proper sequence of interconnections is fairly obvious and is always clearly illustrated in owners' manuals. Leads from the turntable connect to the left and right phono inputs. A third (single) wire that serves to ground the turntable frame to the system is usually supplied, and it is connected to the ground post that normally is near the phono inputs on the preamp. (Occasionally, connecting this ground wire *increases* the hum level rather than reduces it. If hum occurs only on the phono input, try removing this wire.)

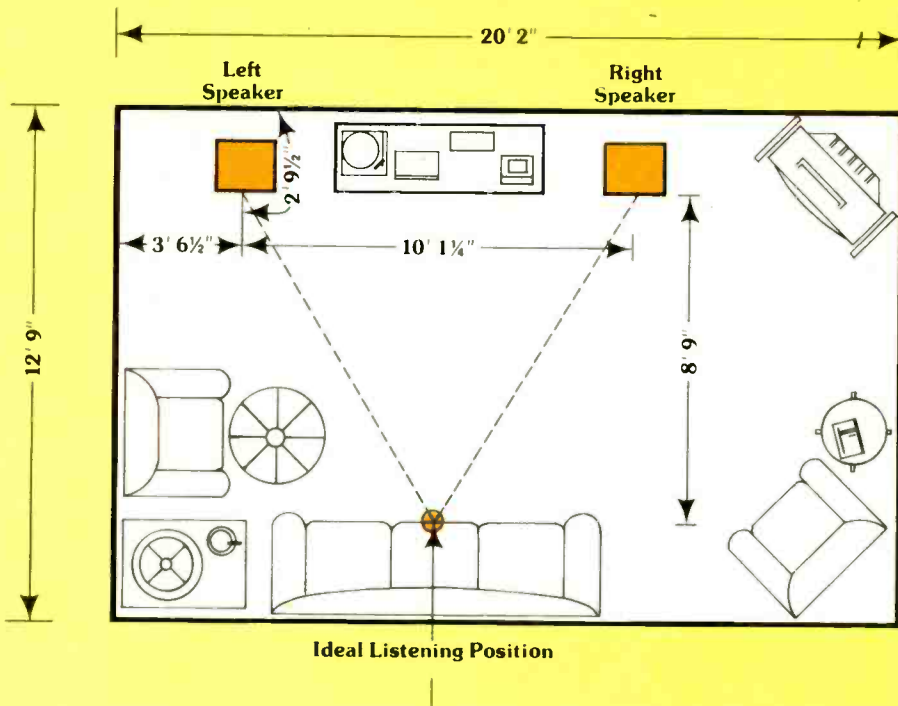


Fig. 2. Ideal dimensions for a rectangular listening room with an 8-foot ceiling are 20 feet, 2 inches by 12 feet, 9 inches. Setup shown here should give good results with most speakers. Note that the separation of each speaker from the side wall is different. Also, the distance from the front of the speaker and around the cabinet to the rear wall differs from the speaker's spacing from either wall. A good woofer height for this arrangement is 2 feet, 2 3/4 inches. Speakers are about 10 feet apart; distance from either speaker to the listener is also a bit over 10 feet.

A choice of phono inputs is available on most preamps and many receivers. Fixed-coil (moving-magnet, induced-magnet, moving-iron, variable-reluctance and similar) cartridges should be connected to the "normal" phono input. Typical moving-coil cartridges require a matching transformer or pre-preamp to make the signal level compatible with standard preamps. Some preamps have this circuitry built in and can accept moving-coil cartridges directly. Your owner's manual should tell you how your system handles this type of cartridge. Some high-output, moving-coil cartridges are designed to feed the normal phono input. The cartridge data sheet should indicate this fact.

Some preamps have more than one phono input. One might be for moving-coil cartridges, the other for the fixed-coil type. Obviously, use the one that is suitable for your cartridge. On many preamps, though, the inputs are the same, and you may choose either one for a fixed-coil cartridge. Others afford a choice of cartridge loading on one of the inputs.

If the value of the fixed-load input matches that of your cartridge, it may be the better choice, since less internal wiring and switching often yield slightly lower noise. However, if the fixed-load value isn't suitable, use the selectable input. Most fixed-coil cartridges require a 47-kilohm resistive termination; ideal capacitance can range from under 200 pF to as much as 450 pF. The cartridge data sheet will tell you what's best. Total load capacitance is the sum of the preamp input capacitance and the capacitance of the turntable/tonerarm wiring, so select a preamp capacitance that is equal to the desired capacitance *minus* that of the tonerarm wiring.

Double-ended phono cables are also used to connect the tuner and tape deck(s) to the preamp. One set of cables is used to feed signals *from* the preamp *to* the deck for recording; a second set to feed signals *from* the deck *to* the preamp for playback. Usually the preamp's TAPE OUT jacks supply signal for recording and are wired to the deck's LINE IN jacks. The

**Preamp capacitance
should be equal to
cartridge capacitance
minus that of the
tonearm wiring.**

tape deck's OUTPUT jacks are wired to the preamp's TAPE IN jacks. (Terminology differs among manufacturers, so check your manuals.) If your preamp handles two decks but provides only one-way dubbing (from TAPE 1 to TAPE 2), connect your open-reel deck to TAPE 1 and the cassette system to TAPE 2). This enables you to copy from open-reel to cassette—the usual direction—although not vice versa. You can record on either or both decks from your phono or tuner. If your preamp allows two-way dubbing, it makes no difference which deck is connected to which input.

The preamp output is connected to the power amp with the same phono-plug-terminated cables. An outrigger equalizer or some other signal processor frequently is connected between the preamp and the power amp. Some preamps have EXTERNAL PROCESSOR inputs and outputs and a bypass switch. In this case, the EXT PROC OUT jacks are connected to the input of the equalizer, and the equalizer's output is connected to the EXT PROC IN jacks. Alternately, one set of TAPE OUT/IN jacks can be used to feed and receive signals from an external device. In this case, the signals will be routed through the outrigger device when you have the TAPE MONITOR switch in the MONITOR (or TAPE) position and bypass the device in the SOURCE position. Of course, you sacrifice one tape-deck hookup this way.

Consult your owner's manual to determine if your external processor will work best in a tape-monitor or external-processor "loop," or between the preamp and power amp. The two hookups differ in that the tape and external-processor loops usually precede the volume and tone controls so the signal being fed to the external device is uncontrolled in level. In a hookup between preamp and power amp, the volume and tone controls affect the signal *prior to* external processing. Many integrated amps and receivers have an external link between the preamp and the power-amp circuitry so that the two sections are electrically separate even though they are physically integrated. By removing the link and cabling to and from the external processor, you get the same hookup you would have had if you had used a separate preamp and power amp.

Speaker cables connect the power amp to the loudspeakers. Although several exotic (and expensive) cables are available, we see no particular advantage in so-called impedance-matched or low-inductance wiring. The important factor is low resistance. This means a heavy (low-number-gauge) wire should be used. The minimum recommended wire size is 18 gauge, and that should be used only for relatively short (less than 15-foot) runs to relatively high-impedance (8-ohm) speakers. Sixteen-gauge wire is appropriate for 25-foot hookups to 8-ohm speakers or 12½-foot hookups to 4-ohm speakers.

These guidelines are based on achieving an effective damping factor of 40 when an amp of very high internal damping is used. We're undoubtedly being very conservative, since an effective damping factor of 20 is probably good enough. For this damping factor, you could come close to doubling the length of cable for each of the situations described.

To insure proper speaker phasing, connect the red (or positive) output terminal from each channel to corresponding terminals on each speaker. Some speaker wire is color-coded to help you keep the two wires straight. With "see-through" wire, you can use the copper-colored strands for positive and the silver ones for negative (or vice versa as long as you're consistent). The two wires in ordinary zip cord can be distinguished either by a colored thread that accompanies each wire or by the "mold mark" embossed on the plastic covering.

To check the system's phasing, play a mono record, or select the mono mode on your preamp. Stand along the center line between the speakers. The sound should appear to come from a point midway between them. If

you can't locate the position of the sound, if it seems to be diffuse and directionless, the system is out of phase. Turn it off and reverse the leads at either (but not both) of the speakers (or at the amp), but not at both the amplifier and the speaker. Again, check the sound. It should be easily located.

Your hookup is now complete, but a few hints may help you to get better performance. First, route input leads away from output leads and away from all power cords. This helps minimize hum pickup, especially on phono wiring. Reversing the power plug in its socket will sometimes reduce hum. Flip the power plugs over one at a time and select the orientation that results in lower hum. You'll have to listen to the system after each reversal. *Be sure to turn off the power* and wait a few seconds before each switchover.

Most preamps, integrated amps, and receivers have convenience outlets to accommodate the power plugs of other equipment. Some outlets are "switched" (controlled by the amp's on/off switch), others are always "live." An automatic turntable's cord usually is plugged into an unswitched outlet so it can complete its cycle even if you turn the amp off. Most other equipment is handled more conveniently by the switched outlets. Make sure that the ancillary equipment does not draw more power than the outlets are rated for.

Turntables and tape decks are highly sensitive to hum generated by the AC magnetic fields that frequently surround power transformers and motors. In general, the more power a device consumes, the greater the magnetic field created by its transformer. So keep the turntable and tape decks away from the power amp. System hum may be cured by relocating the components.

External shock and vibration also affect record players. Place your turntable on a solid platform away from the loudspeakers. While playing a record under reasonably loud conditions, lightly place your finger on the turntable frame. If the frame vibrates in sympathy with the music (an effect most noticeable on passages with a lot of deep bass), the system is receiving "acoustic feedback." Under severe conditions, the system may oscillate the "howl" much like an ill-adjusted public-address system. If this happens, try a different location for the turntable—one that is more remote from the speaker and/or provides a more secure support. If this doesn't help, try removing the dust cover entirely. (It acts like a big microphone and picks up the sound waves that vibrate the turntable.) Turntable isolation pads (or feet) are often helpful in reducing vibration transmitted through the turntable's own isolation system.

Heat adversely affects the reliability of electronics. Place your gear away from a radiator and any window that receives direct sunlight. Make certain that components—particularly the power amp—are well ventilated. Don't block off air flow and remember that heat rises. A power amp placed below other equipment will cook the gear up on top. Vinyl records soften and deform under heat, so store them—vertically and under slight pressure—in a cool place. Tapes too should be stored in a cool, relatively dry area, and also well away from stray magnetic fields that can erase their contents.

The size, shape, and furnishings of your listening room color the sound that reaches your ears, as does the placement of your speakers vis-à-vis walls, floor, ceiling, and corners. Listening position relative to the speakers also affects the uniformity of the sound you hear and the quality of the stereo image.

Standing waves are created in any room. How severely they affect the

If the sound is diffuse and directionless, the system is out of phase.

sound quality depends largely on the shape and dimensions of the room. Under standing-wave conditions, sound at certain frequencies is concentrated in certain areas of the room and is missing in others. A standing wave is created between every pair of parallel, reflecting surfaces at every frequency at which the spacing between the walls is an integral number of half wavelengths of the sound. For example, since sound travels through the air at a speed of approximately 1,130 feet per second, the first standing wave along a 12-foot dimension will be at 47 Hz. Others will occur at 94 Hz, 141 Hz, etc. In fact, there is another eigenmode every 47 Hz. At high frequencies, the standing waves are clustered so close together (relative to the logarithmic music scale) that they're not noticeable. At low frequencies, they are.

An ideal listening room is one without parallel walls—concert halls and recording studios are so constructed. (A room with a cathedral ceiling at least avoids the floor-ceiling eigenmodes.) But most rooms are rectangular. You can help “break up” standing waves with room furnishings. Anything that will make the walls irregular will help—bookcases, room dividers, etc.

If you have a choice of listening rooms, try to pick one whose dimensions are not either integrally related or have a common submultiple. This avoids the possibility of having the three sets of standing waves (set up between the two opposite pairs of walls and between floor and ceiling) accumulate at the same frequencies. One set of room-dimension ratios that assure that eigenmodes won't coincide is 1:1.26:1.59. With a typical 8-foot ceiling, this work out to a 10'1" x 12'9" room—which is rather small. Fortunately, you can double or triple any of these dimensions and still have correct acoustics. Height, width, and length are irrelevant. For example, you can double the “width” measurement listed above (10'1") and use that value (20'2") for the “height” of a room 12'9" wide by 8' long.

The “liveness” or “deadness” of a room also affects the sound quality, particularly at the high end of the spectrum. A heavily carpeted room, furnished with overstuffed chairs and heavy draperies, will sound dull because the treble will be absorbed by the soft material more thoroughly than the bass. Advancing the tweeter-sensitivity control on your loudspeakers or boosting the treble on the preamp may help to achieve a more pleasing balance. To add liveness to a room, you can open the drapes or hang mirrors or other hard reflecting surfaces. The sound in a sparsely furnished room with bare wood floors and hard walls is likely to be too bright. Adding some absorbent material will help. While you can follow these general guidelines to ascertain which way to go, it's basically a matter of adjusting the individual room elements until you get a pleasing sound.

Speaker location vis-à-vis its immediate surroundings has a strong impact on how smooth the speakers' bass and midrange response will be and on the effectiveness of the stereo image. Some speakers are designed for specific placement, i.e., in the corner, against a wall, raised above the floor or standing on the floor. The speaker should be placed where it was designed to go. With those whose manufacturers do not specify an ideal placement, you may need to experiment.

An old adage says that placement at the floor-wall interface increases bass response; corner placement increases it further. In general this is true, since sound reflects from these nearby surfaces and strengthens the radiation at very low frequencies. However, at higher frequencies (in the midbass), the reflected sound may become out of phase with the direct sound and *reduce* the sound-pressure level. So although bass response may be strengthened *on average* by placing the speaker near the wall,

**Ideally, you'd want
a listening room without
parallel walls.**

floor, or in the corner, midbass response may become quite irregular (colored). Exactly where frequency irregularities occur depends upon the distance from the active driver to the reflecting surface. That, in turn, depends upon the size of the enclosure, the placement of the driver within the enclosure, and the distance from the wall (or floor) to the system.

Again, the word is experiment, but we can offer you some guidelines. Unless the system is designed specifically for corner placement, don't put it there. A tower-type speaker is meant to stand on the floor, but it may perform better at some distance from the wall. Place each speaker at a different distance from the side walls and keep each of them at least a couple of feet away from those walls.

Measure the distance from the center of the woofer to the floor and place the speakers so that the distance from the center of the woofer, around the cabinet, to the rear wall is *not* the same as the distance from the woofer to the floor. Nor should the distance to the sidewall be a multiple of the distance from the woofer to any other reflector. The idea is to avoid having each of the reflected sound waves end up out of phase at the same frequencies.

Bookshelf-sized speakers are generally not meant for floor placement, but this is far from certain. Some speakers seem to be designed in a compact format simply because such speakers sell well. Sometimes raising a small speaker on a speaker stand smooths out the bass noticeably.

In general, speakers should be placed so that the midrange and tweeter drivers are at ear level (when you're seated) and so that the sound coming from them is not muffled by interposing furniture. For the best stereo image, the speakers should be roughly the same distance apart as either of them is from your listening position. The best setup is essentially an equilateral triangle with a speaker at each corner and you at the apex. Sometimes imagery is improved by pivoting each speaker toward you so that you're more on the axis of the high-frequency drivers. If this improves the illusion but makes the sound too hot on the high end, try turning down the tweeter sensitivity.

A graphic equalizer can help smooth out room-induced response irregularities. But perfect compensation seldom can be realized and certainly never at all places in the room. Furthermore, a complete equalization job requires test instruments and a flexible parametric equalizer. So it's best to count on your equalizer simply for fine-tuning and to first experiment with speaker location and room furnishings to obtain a good-sounding system.

One of the newer high-fidelity accessories is the so-called "ambience simulator" or "ambience-restoration" device. Such systems strive to extract or synthesize the ambience (or hall sound) from the program material and present the reconstructed concert-hall "reflections" via a second set of speakers. Another power amp and another pair of speakers are required, and these are sometimes included in the system package. These speakers need not be as good as the primary set, for most present-day ambience systems do not go much beyond 7 kHz. Contrary to popular belief, the best place for these secondary speakers usually is not *behind* the listener but to the sides of the listener, and frequently, slightly to his front. Again, for best results consult your owner's manual and experiment.

Setting up a high-fidelity system is as quick and easy as you wish to make it. Within an hour or so, you can have everything out of the boxes, set up, and, more likely than not, sounding good. Those bitten by the experimenter's bug can obtain even better performance from their system—and gain a basic understanding of acoustics—by spending the time to experiment with the arrangement until the best is achieved. **HF**

Count on your equalizer simply for fine-tuning; first experiment with speaker location and room furnishings.

How to Troubleshoot Your Stereo System

Simple, money-saving steps you can take
to prevent and fix the most common problems

by Howard Roberson

Silence. Sometimes golden; other times troublesome. Let's be specific. Say you bought your stereo system within the past year or so. At first you didn't worry about things going wrong because the warranties covered most problems. Now you're probably outside the warranties. If you were to flip the power switch and all you heard from your stereo system was silence, what would you do?

You have two main courses of action: fix the problem yourself or take your system to a repair shop. What you may not realize is that many problems are less serious than they first appear to be, and may be easily fixed at home. We've outlined below two "home remedies," including how to prevent problems from occurring in the first place. Then we suggest what to do when you must seek professional repairs.

A preventive maintenance plan is a must for any stereo system. Regular inspections and cleaning not only eliminate common trouble spots, but assure that your system is delivering the best sound it can.

In the case of turntables and tape recorders, cleanliness is important. Both employ transducers that must contact a moving surface to generate the small electrical signals they produce. Keep these contact areas clean. The effects of dirt as noise or dropouts are magnified by the necessary preamplification.

Even if your discs are kept immaculate, a brush *specifically made* to clean a stylus should be employed as often as close inspection dictates. Don't use any "handy little brush"; it may damage the stylus mounting.

You should clean the heads of a tape recorder regularly to prevent accumulation of oxide particles and other material deposited by the tape. Some machines and tape types will require cleaning much more frequently than others. Do it regularly. At the same time, clean other areas where dirt is accumulating, especially the capstan and its idler. Examine all arms, lifters, flutter filters, guides—anything over which the tape must pass.

Isopropyl alcohol and cotton-tipped swabs, both available in drugstores, are a good combination for most cleaning tasks, including removal of oxide particles that build up around the heads. Do *not* use rubbing alcohol, which has additives that will goo things up. Special cleaning solvents for recorders may do a better job and not attack plastic parts or head varnish, as alcohol sometimes does. Try to keep pressure pads clean by brushing them; solvents like alcohol could loosen the mounting glue. Demagnetize (with a degausser designed for the purpose) the heads, guides, etc., after several hours of operation and immediately before any recording of particular interest.

Signal sometimes is lost because controls and switches have not been moved from day to day. The majority have contacts that are designed to scour, so to speak, as they are used. Without this scouring action, corrosion can develop right around the point of contact, causing the control to become intermittent in the very setting where you want to keep it. To forestall this eventuality, regularly rotate all switches and controls through all positions (and activate all levers and pushbuttons), whether you normally use them or not. Don't overlook those that are built into your speakers. Do this with the power off, perhaps once a month—more or less, depending upon your local pollution rating. You also should check the indexing of the knobs and tighten any that are loose.

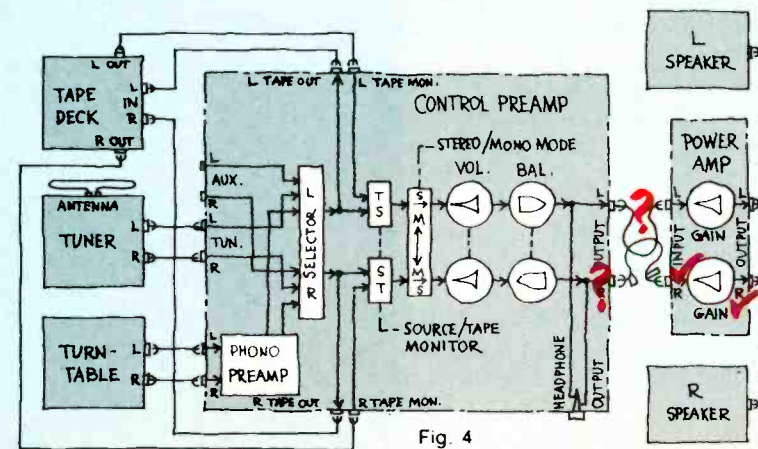
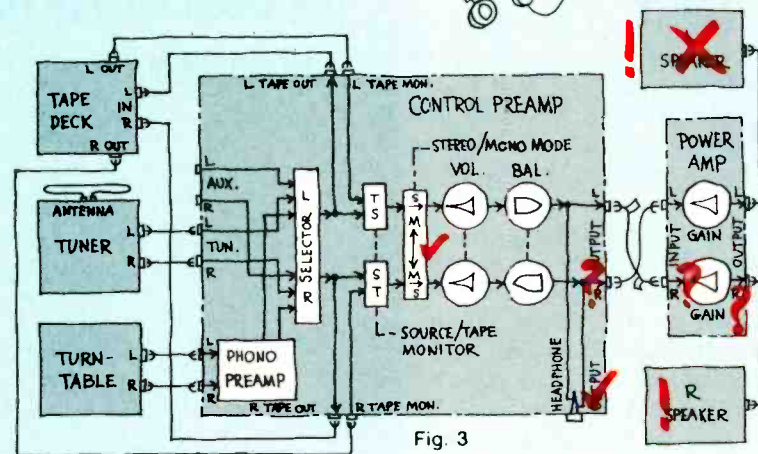
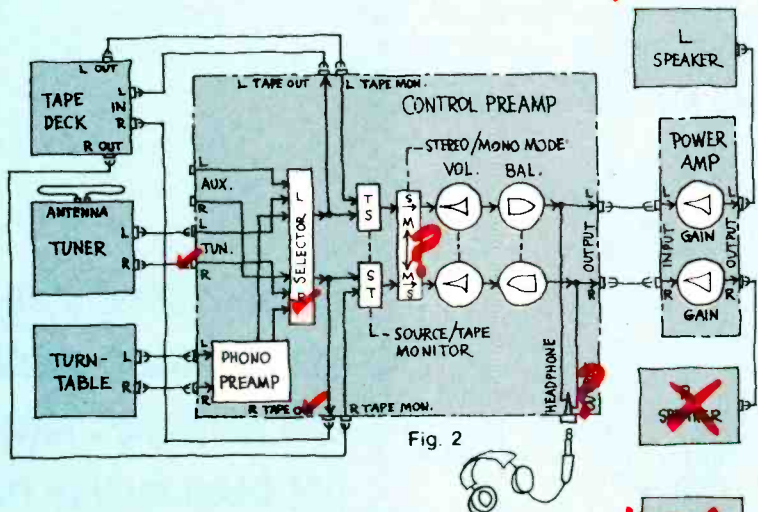
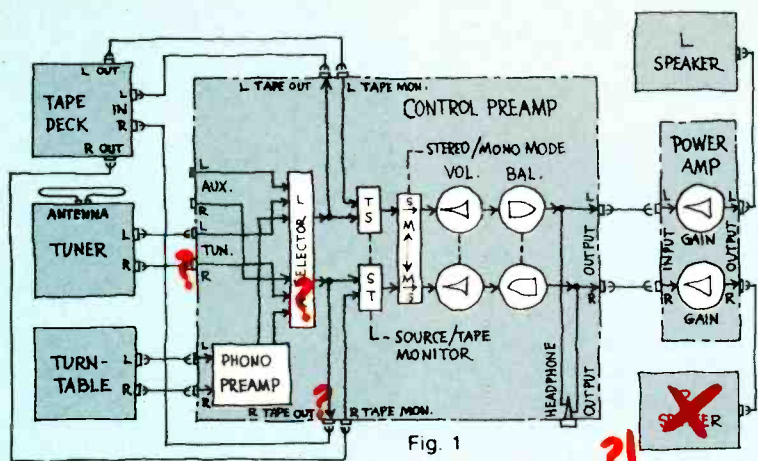
Less frequently, perhaps twice a year, examine all power and signal cabling, and its connectors, for evidence of damage or poor contact. Don't forget to check the FM antenna, downlead, and rotator. Clean, repair, or replace according to need. Unplug the cartridge shell and examine the mating contacts of the shell and arm. Clean as needed, using a *soft*, pencil-type eraser (such as Faber No. 7066), being careful not to leave debris in contact areas. Tools made for cleaning battery contacts may also work, but take care not to bend the "fingers" or scratch contact points. Check the stylus mounting for evidence of damage. (Note: The normal nonplaying position of the cantilever may slope steeply downward.) It is possible to detect gross damage with a pocket microscope, but this is not an adequate means to check for wear. In fact, it is difficult to examine styli with many microscopes because of poor resolution and mechanical positioning. If your dealer has a good inspection setup, take advantage of it. If not, it is probably best to replace the stylus every six months to a year, depending on use. Having a spare stylus is a good idea; a sudden change in record quality may indicate damage, which may be confirmed or ruled out by substituting the spare.

Most turntables and recorders require some oil periodically on rotating shafts, so adhere rigidly to the lubrication schedules in your manuals. Observe strictly the cautions on excessive oiling, which can cause the transfer of oil to surfaces that must be kept clean and dry. At the same time you do this, look for signs of bent parts, rubbing, or wear—particularly in tape heads. If you find any, maintenance may be called for to prevent deterioration of performance.

Periodic, but less frequent, cleaning and lubrication are required for the mechanisms inside a recorder or turntable to assure top performance. First, with the aid of your manuals and the dealer, find out whether any

Signal sometimes is lost because controls and switches have not been moved from day to day.

Draw Your Own Troubleshooting Map



A homemade "map" of your stereo system can be a big help when you come to troubleshoot it. In this basic collection of separates we are assuming a turntable, tuner, and tape deck; a separate preamp with fairly simple controls; a power amplifier with its own gain controls; and a pair of speakers. Your diagram should show all elements—including any speaker controls—that may affect the signal path in ways that you can check. To show how you might use such a diagram, let's suppose that, when you turn on the system to play FM, you find the right speaker dead. You might check the speaker first and work backward (any systematic approach will do), but let's begin at the input to the control preamp. Is the tuner not feeding it a right-channel signal, or is it killing the right channel input for any source?

Fig. 1) Put a record on the turntable and rotate the selector switch. The phono right channel is dead too, so the problem is not peculiar to the tuner and appears to be after the selector switch. You set up the tape deck to record and find that the meters indicate a right-channel signal for both tuner and phono. You have established that the fault is after the tape-recording feed. Perhaps the mode switch or the use of headphones at the preamp's output will help pinpoint the fault.

Fig. 2) The right speaker remains dead in both positions of the mode switch, but both earpieces are live in both switch positions. The fault therefore is somewhere between the headphone connections and the speaker. It could be at the very output of the preamp, at the input of the power amp, or at its output.

Fig. 3) You can narrow the field by adding masking tape "flags" to the demonstrably faultless left-channel cable from the preamp output to the amp input and interchanging it, at the power-amp input, with the right-channel cable. Suddenly (when you restore power) it is the left channel that has gone bad, and the right speaker has revived. That eliminates the power amp and the speakers as the source of the system's trouble.

Fig. 4) The fault may be at the output of the preamp, or it may be in the right-channel cable. Switch the other ends of the cables, this time at the preamp, so that the questionable unflagged cable now runs from the left preamp output to the left power-amp input. The left speaker remains dead. You can now deduce that the problem is in the cable and the cure easy: Buy a new cable.

BUYING GUIDE
TO
STEREO COMPONENTS
'80

measures are recommended. Those not explained in the manual should not be attempted by the neophyte and will require the step-by-step instructions provided in a service manual, which sometimes can be obtained directly from the manufacturer by writing to the address on the warranty card. Expect to pay a nominal charge. Radio parts stores will have the Howard Sams Fotofact series on various types of equipment. Each manual covers more than one unit, but it is well worth the cost if you are bent on doing this sort of work. Remember that even simple removal of a chassis from a cabinet can quickly become a disaster if the wrong screws are loosened. If you do take steps to bare the guts of your machine, take the time to examine the various mechanisms and learn the function of all the clutches, belts, and so on.

If you're feeling a little adventurous and want to get some reference data to help you in later troubleshooting, your tape recorder's meters can be used to measure levels throughout a system that is operating correctly at present. If, for example, you have a separate tuner, you can compare its direct output to that normally delivered via the tape-recording output of your preamp or integrated amp. The levels may be worth recording both for your favorite station and for interstation noise. You can note the differences in dB that the two hookups deliver with the same type of signal and recording-level setting, or you can adjust levels for the same meter reading and note the settings required. You can make a similar check on the output from the turntable (using the mike input), noting the level settings for a 0-VU meter reading. The output from a preamp can be checked for normal listening level, or whatever. There are other variations, of course, but the idea is to get some data on your "standard" levels, noting control settings to permit rechecking in the future. But don't forget to turn off the power whenever you change a connection in the signal path.

And never, under any circumstances, switch from one source to the other with the volume control turned up. The resulting transient can be very damaging both to the power amplifier and to the speakers. It is true that you might be able to get away with the practice *most* of the time, but it takes just one misadventure to cause a lot of damage, including a noticeable assault on your wallet. Don't forget: If you have tubed equipment, you should test the tubes perhaps once every two years, depending on use. This is most important for rectifier and power-output tubes, which may become emission-limited, if maximum performance is to be maintained.

When something goes wrong with the sound of your system, the change will occur in one of two basic ways: Either the quality will deteriorate over a period of time or the change will be abrupt. If the latter is the case, ask yourself a couple of questions. First, what did you do last? Second, what might someone else have done? There are many so-called cockpit errors that we miss if we don't stop and think. Here are some examples: You forgot to turn the circuit-breaker back on after replacing a wall switch; someone turned off a wall switch that no one "ever" turns off; perhaps someone inadvertently pushed a normally unused tape monitor or remote speaker switch. It also is possible that a knob has slipped, giving an incorrect indication of system settings. Mr. Nobody is responsible for many such goofs, so be prepared for anything.

If there is no sound at all from your system, check the pilot lights. If they are all dead, see whether the turntable will operate or use a lamp to make certain the wall outlet has power. If necessary, use an extension cord to feed power to the system. If it remains dead, turn off the power switch and check the condition of the various fuses—line, B+, and speaker—that protect circuitry. Manuals normally give fuse locations.

KEY NO.	PAGE NO.
	Audio Pulse, Inc.....7
1Discount Music Club.....	14
2Discwasher, Inc.	Cover IV
3Illinois Audio	14
4International Hi Fi.....	10
5J & R Music World.....	15
6JVC America, Inc.....	8, 9
7Kenwood	11
19Maxell Corp.....	248
8 ... Mitsubishi Audio Systems	12, 13
9Ohm Acoustics	Cover II
18Pan American Electronics....	14
16Polk Audio	3
17Sansui Electronics Corp.....	16
11Sony Audio of America.....	10
10Sony Corp. of America	4, 5
12Stereo Corp.....	10
20TDK Electronics.....	6
13TEAC Corp.....	Cover III

If one channel is working, that's good news from a troubleshooting standpoint.

You may find that there is a fuse inside some equipment; before you check it, be certain of two things; that the power plug is disconnected from the outlet and that you understand the procedure of disassembly required. Before replacing blown fuses, check the condition of the connections, particularly the amplifier outputs to the speakers. Clean up poor connections, making certain there are no stray bared wires that could short an output. If replacement fuses blow immediately, a trip to a service agency is in order.

If all of the pilot lamps are on, listen very closely to the speakers, one at a time. If there is complete absence of sound from either of the speakers, even with the volume control all the way up, double-check for shorted amplifier outputs or blown B+ or speaker fuses. If these seem in order, disconnect the output cables from the amplifier. It is doubtful that the speakers could have been blown out without your knowing about it, but you can check them by alternately making and breaking connections from a flashlight battery to the speaker leads. Current passing from the battery through the voice coils should produce a noticeable "clunk" with each make or break.

A "positive" speaker test means that you must now use logic to localize the problem—keeping in mind the signal routing in your system. A good signal at the headphone jack may prove, for example, that signals are normal most of the way through the amplifier or only through the preamp, depending on the circuit point from which the headphone signal is taken. It may be helpful to use your recorder as a diagnostic tool—with the headphones in *its* jack and your eye on the meters, you can monitor whatever the recorder is connected to. You can, for instance, compare the signal at the normal TAPE-OUT jacks with those at the PRE-OUT connections.

If one channel is dead, that's bad news; but it also means that one channel is working, and that's good news from a troubleshooting standpoint. Set the selector switch to each of the possible sources to confirm that the condition affects all of them. Now, if your preamp has a MONO/STEREO mode switch, work it back and forth several times to clear a possible intermittency and then leave it in MONO if the defective channel remains silent. The PRE-OUT connections normally will be the next "checkpoint" in the signal path after this switch. If, when you monitor PRE-OUT, there is normal sound in both sides, switch back to STEREO. If the signal now disappears on one side, the problem is at or before the mode switch. If the signal, even in MONO, is on only one side, the break in signal flow is after the mode switch.

Of course, it is possible that the break in the signal path is in the cables from preamp to amplifier or from amplifier to speakers. If your cables are not coded, mark each end of the good-channel cables with pieces of masking tape so you don't lose track of them when you change connections. Let's say that the left channel is good. Disconnect the cables from the preamp at the amplifier's left and right inputs (power off!) and reverse them. If sound still comes from the left speaker when you turn the power back on, and the right one remains silent, the break in the signal flow occurs after the right input connection on the amplifier. If the live and dead speakers have switched positions, the signal loss is before the end of the "dead" cable to the amplifier and after any earlier point that is working correctly. Interchanging the connections at the preamp end of the stereo cable will show whether the failure is in the cable itself.

Drawing a block schematic of your stereo system will help diagnose the problem. Your drawing should show all the units with their switches and other controls that affect the signal path, together with all inter-

connect points. By penciling in the temporary connections, you can see what the path *should* be as an aid in deducing where the fault lies. And as you eliminate one possibility after another, you can check it off on the diagram.

Sometimes poor contact between a cable plug and the jack creates a problem. Whenever you change connections for any reason, look to see whether either would benefit from cleaning with the eraser. If there is a loud buzz in one channel, it might be caused by poor contact between the jack shell and the tabs on the plug. With the power off, pull out the plug and bend down the tabs to hold the jack shell tightly upon reinsertion. If the tabs will not hold, replace the cables with a quality product that will make such contact tightly.

Any switch or control in the signal paths can cause a loss of sound from your speakers. A volume control will rarely break the path over its entire rotation, though its wiper may lose contact at some point. When it does, it is time to use a control cleaning solvent—best applied with the knob removed. After application, rotate the control over a large arc to aid in the cleaning. If the control remains intermittent, perhaps even after you have removed its cover to spray cleaner directly into the elements, it will have to be replaced. Switches that lose contact can also be treated with cleaner in a similar fashion, but the cover or cabinet must be removed so you can gain access to the contacts.

Sometimes the contacts of a rotary switch will make and break when you push back and forth on the shaft. With careful observation, you may be able to pinpoint what the problem is. Dirty contact areas, warped switch wafers, and cold-solder joints on connecting wires are among the possibilities. Follow the general rule that contact areas are to be worked on only when the power is off. A blade-type burnishing tool may restore contact, but it must be used with care or it may bend contact fingers. If you are inclined to repair, be ready with your pencil soldering iron (not a gun, which can too easily damage delicate parts) for the suspicious connections. Finally, remember that the cleaner is needed only on pot elements and switch contacts; do not spray anywhere else.

Gradual deterioration in sound quality can be caused by such things as a dirty or worn phono stylus, dirty or worn tape recorder heads, and various electronic components—including, of course, aging vacuum tubes. A sneaky one for FM listeners is the loosening of antenna clamps and the rotation of the antenna to an undesired (and unknown) orientation. A drop in level of the highest audio frequencies could be caused by loss of contact in the tweeter's level control. A sudden drop in the maximum output level, perhaps in just one channel, could be caused by the failure of an output transistor. In rare instances, the corrosion in a control makes it behave like a semiconductor: There is no sound in the output until the voltage at the contact point reaches a critical value, and thus the sound jumps in, so to speak, at a medium to high level out of silence. The cure is contact cleaner and rotation to help buff off the corrosion.

What do you do if you can't fix the problem yourself? Perhaps you have proven to your own satisfaction that in the tuner's left channel the signal path is broken with the preamp. Even though you have not been able to find the exact point of the failure, you know which unit is at fault. Your observations will be an aid to a professional, saving him time and perhaps minimizing the charges.

There are two basic repair categories: warranty and nonwarranty. Almost invariably, warranty work must be done at an authorized repair station. Not only will most manufacturers refuse to pay for work done anywhere else, but many warranties stipulate that they become void if such work is done. It can be very frustrating to have the original dealer tell you

**Your observations
will help a professional,
saving him time, and
saving you money.**

**Be sensible and
logical to get the
best out of a repair
service.**

he is not authorized to perform a warranty repair, but do accept that this practice is a protection for you as well.

A manufacturer-approved service agency is probably a good place for nonwarranty repairs as well. For one thing, it will have information direct from the manufacturer on parts and procedures for repairing your equipment. A needed part is more likely to be in stock, and there will be no question of what to order if something else is needed. If the failure in your unit is the result of a design limitation, the agency could have modification data from the manufacturer to ensure that the failure does not recur. If you are particular about keeping equipment performance to the manufacturer's specifications, substitution of parts made by others may not suffice.

Expect the hourly rate for repair work to be around \$20-\$25—perhaps more. The minimum charge usually is at least half the hourly rate. Sometimes there will be a fixed charge for repairing a certain type of equipment, whatever the problem. Such charges might be \$25 for a turntable, \$30-\$35 for a cassette deck, and \$35-\$45 for a receiver. Many shops will provide estimates only on request—at a charge of \$15 or so, applied against the total charge for the repair.

You will want to know how long the repair will take, but don't be surprised when the time estimate is given reluctantly or not at all. Without knowing which specific part(s) need replacement, your serviceman cannot promise results within a certain length of time. If you push him for speedy action, you could get inadequate procedures or parts—and, consequently, marginal performance. The typical dealer/service agency handles a number of lines of equipment with many models using literally thousands of parts, not all of which it can afford to stock.

Dealers commonly give a parts-and-labor warranty of 90 days on repairs. Some will lend you equipment to use while yours is laid up, but this is not a widespread practice.

As in doing your own servicing, you must be sensible and logical if you are to get the best out of a repair service. It is all too easy, for example, to be suspicious about whether the charges represent fair value. Perhaps you feel that the hourly rate for labor is too high, but remember that the overhead costs for servicing high fidelity equipment are higher than those for most comparable businesses. These costs include the investment not only in parts inventory, but in test equipment: \$10,000 is common for the latter, but the tab can easily run \$5,000 or more for *each* test bench. The parts investment, too, can vary greatly—up to \$50,000 or more. These costs must be covered by the income from service charges, a good proportion in the labor charge and some applied to parts. Understand that the technician working on your amplifier does not get the \$20 per hour, but only what is left after the overhead costs are covered.

The high investment in sophisticated instrumentation is required to test to the specifications you find in the advertisements and in your owner's manuals—and included in more and more warranties. Even one expensive, recently introduced FM alignment generator hardly meets the specs of new tuners and receivers. So, in general, it is difficult for a dealer to be enthusiastic about warranty work. Most feel that reimbursements by many of the manufacturers are inadequate to cover the high costs involved.

One hopes that your repairman will be patient with you, realizing that you are being deprived of more than an assembly of transistors and switches: You are without music. But understanding the problems he encounters will help *you* to be patient with the time and money service will cost you. Patience will encourage maximum help when you need it—and may even save you from seeking help when you don't. **HF**

by Robert Angus

The Right Way to Buy Car Stereo

Shopping for a car stereo system used to be both reasonably inexpensive and easy. For less than \$100 you could buy a single unit incorporating a tape deck, an FM stereo tuner and a rudimentary amplifier, plus a pair of wedge speakers. Today you can spend that much for just the speakers. With that in mind, here's what we think is the most intelligent way to select the system that fits your type of car. We assume, of course, that you're interested in quality sound.

First, collect as much product literature as possible. (You might use the postage-free bind-in card in this magazine, for example.) If you take a quick glance at the names of car stereo manufacturers, you may think you've stumbled into the world of high fidelity in microcosm, and in a sense you have. There are familiar names like James B. Lansing Sound and Rotel, Jensen and Advent, Marantz and Bose, and so on. Many of the products look like miniature home components (some, like ADS loudspeakers and Uher tape decks, the Rotel receiver and JVC mini-speaker, actually were designed originally for home use). The array of components includes power amplifiers and preamps, separate tuners and tape decks, woofers and tweeters, and equalizers.

A car stereo system, like a home audio system, consists of three main parts: one or more program sources (in this case, the most common ones are an FM stereo tuner and tape deck), a control center (i.e., amplifier and preamp), and loudspeakers. Systems come in as few as three pieces or as many as 13. The first decision you will have to make is whether you want an all-in-one unit or separate components.

More than personal taste should enter into your final decision. Cars such as the VW Rabbit, for example, have very limited room for mounting separate speakers and components, and many smaller cars don't have a separate trunk, so that rules out an entire family of speaker systems designed to use the trunk as a baffle. In other words, the type of car you drive bears directly on your choice of components. And it's not just size and physical shape that are important but age, value, and the length of time you plan to own the car. Also, your listening habits must be taken into consideration, as well as where you drive (country road vs. freeway), and, of course, how much money you have to spend.

Okay. Let's be specific. For our first example we'll use a six-year-old Ford. It has a roomy interior, and you could install anything from a simple under-dash tuner/amp unit with rear deck speakers to a preamp/tuner/cassette deck with external amp, trunk-mounted woofers, in-dash tweeters, and door-mounted midrange speakers. But if you intend to sell your car in the not too distant future, a simple, easy-to-remove system is a more logical choice.

Cars, such as the Rabbit, have limited interior space and don't have a

Knowing which questions to ask is the most important factor

Before you buy any car stereo component, make certain that what you have in mind will fit in your car. The only way to determine this is to sit in your car and visualize where the components and speakers would be installed. Be certain that you can reach all the controls easily from the drivers seat, so that you won't have to take your eyes off the road to install a tape or change a control setting.



rear deck for speaker mounting. You may prefer Bose 1401s or Jensen Triaxials, but circumstances dictate having to settle for lower performance speakers which are thin enough to fit into the door panels. Fitting a separate cassette deck and tuner under the dash would be very difficult, although you could tuck a remote power amp under one of the front seats. Smaller cars also tend to have less soundproofing than larger ones, so a more powerful amp is generally best. Also, quadraphonic sound or a time delay system is generally more effective in a larger car. Vans have almost unlimited space for stereo installations. Remember, though, that interior carpeting will soak up a lot of high frequencies; this may mean that your best choice is a high-power amp.

Now it's time to go out and sit in your car for a few minutes. Look around. Ask yourself where you would install a complete receiver, or whatever you're considering—separate amp, preamp, tuner, tape deck. Can you mount the units so that you can change tapes for FM stations easily while driving? Where would the speakers go for ideal listening? Are there locations for separate woofer, tweeter and midrange drivers, or for self-contained mini acoustic suspension systems? Do rear-deck cutouts already exist for oval coaxes or two-way or three-way systems mounted on a plate? Does the dash panel have a cutout for mounting a radio?

Armed with a good idea of what you could possibly install in your car, you're ready to start reading the product literature. Discard everything that is obviously impractical for your car. If you don't have a rear deck or trunk, forget about rear-deck trunk-loaded speakers, for example. Remain open-minded about specific brands and models, but decide whether you're shopping for all-in-ones or separate electronic components, whether you want component speakers, complete systems, or something in between, and if you want tape, FM (or both) or such extras as short wave or CB.

One factor that is often neglected is a proper antenna. If you're driving an older-model car, the factory-installed antenna may not have been designed for stereo FM. No FM tuner will perform well without a strong signal, a fact your dealer may overlook. Try to determine the quality of your current antenna. New ones, designed specifically for FM stereo, cost



Car stereo specialists (right) tend to have better selections than discount stores (left), but neither can offer a realistic demonstration of how your car system will sound; that can occur only in a car driving on the highway.

between \$10 and \$85 depending on features such as an electric motor to retract it when not in use. Retractable models are often useful in urban and suburban areas where antenna vandalism is common. So, remember that a good portion of the cost of a retractable model is due to the motor, and that price may not be directly related to better performance.

Now you're ready to go shopping. These days you can buy car stereo equipment at discount department stores, at marinas, from autosound experts doing business in abandoned gas stations, from audio salons, and even through the mail. But where can you see the greatest selection, receive the most intelligent answers to questions, and experience the most realistic demonstration?

To answer the last question first, virtually nowhere, because acoustic conditions in stores—even in a demonstration car parked outdoors—aren't like those on the road at 55 miles per hour. FM reception is different too. Among the worst demonstration facilities are those in discount houses and auto supply shops, where a panel loaded with speakers and a variety of car stereo units attempts to create the illusion of an automobile dashboard. The speakers must compete with store noise, whose character is entirely different from that of road noise. You might just as well save time and skip the demonstration.

Discount houses and auto supply shops are less likely, anyway, to carry audiophile auto components. Your best bet for these is a hi-fi dealer who advertises and maintains a substantial car stereo department, or an autosound specialist whose showroom includes a reasonable selection of car components. Advertisements will give you some idea of the kind of autosound department to expect. If you can't find a car stereo dealer in your area, write to the manufacturers of the components you're considering. Such companies as Clarion, Altec Lansing, Bose, and Jensen will send you a list of retailers in your area. In addition, some companies maintain toll-free phone numbers to supply this information. Check with 800 Information (800-555-1212) for telephone numbers.

Where you buy your equipment should not be based solely on price. Discount stores may be less expensive, but in most cases they also provide

no post-sale services. Dealers who service what they sell—primarily audio retailers and the larger or older autosound stores—may charge more initially, but in return you usually receive a store warranty in addition to that given by the manufacturer. This means that you need only return a malfunctioning unit to the store instead of having to drive to a factory-authorized service center or ship the unit back to the manufacturer. And remember, fully-installed systems cost about the same. If a dealer who both sells and installs equipment quotes a lower price than his competitor, be sure the “savings” won’t be compensated for in slightly higher installation costs. In short, find out what the price tag includes.

Mail-order dealers obviously can’t offer installation, and usually offer no additional warranty. In return, however, they may offer very low prices. And the better ones offer a wide range of brands and models than most retailers can carry. One of the largest, Crutchfield, in Charlottesville, Va., regularly publishes an excellent catalogue, which not only covers much of the information to be gleaned from a dozen manufacturers’ spec sheets, but also provides excellent advice on how to buy, how to install, and how to upgrade. Unlike some others, Crutchfield maintains a technical department with a toll-free WATS line to dispense advice to customers.

At each store, tell the salesperson what model car you drive, the kind of sound system you’re considering (i.e., component or all-in-one electronics, separate woofer and tweeter separately mounted, drop-in rear-deck plate, enclosed acoustic suspension speakers, which program sources, power requirements, etc.), and something about your budgetary limits. Listen to his suggestions. If he recommends a different approach or different brands or models than your plan calls for, ask him why, and note down his answers. Ask to see and operate the system he recommends as well as the system you were interested in, so that you can note any differences for yourself.

If you’re not sure whether to accept his recommendations, find out whether or not other dealers agree with him. Even better, ask a friend who’s familiar with car stereo systems and who already owns one. Ask before you buy. If you’ve done your homework, you’ll have questions about which speakers can be used with which amplifiers, etc. Most important, determine: (1) the store’s warranty policy—must you deal directly with the manufacturer; will the dealer do it for you; or will the dealer handle service problems himself? Is there a separate store warranty that offers additional services, such as an extra three months on labor or parts? (2) Who will do the actual installing? Does the dealer maintain his own installation setup; does he recommend an independent expediter; or are you on your own?

If you’re not prepared to do your own installation, and if the store you settle on doesn’t offer that service, ask for the names of a few local installers. Verify that they will put in equipment you’ve bought elsewhere. Most dealers with quality autosound departments have a working arrangement with one or more installers. Of course, you could install the equipment yourself. The question is, should you?

If you feel at home with electronics and don’t mind working within the confines of your car, you can save a sizable amount of money by doing the job yourself, particularly if your car is an older model. If your system is relatively simple (two speakers to drop into rear-deck cutouts and a receiver to install where the car radio was, for example), the job should take considerably less than an hour and require nothing more than a wire stripper, wrench, and screwdriver. If your car is brand new and you’re going all the way with components, let an expert do the job. He’s generally neater, and it’s possible to blow an amplifier and damage other components if the speaker leads short or there’s an incorrect hookup some-



Should you install your own car stereo system? That depends on whether you're handy with tools, and whether you're ready to accept the possibility that if you connect something incorrectly and damage a component, the repairs may not be covered by the warranty. Professional installers often assume the liability for any damage to your system. Many dealers also offer installation services. At left, installer works behind cramped dashboard of a van to install an amp/equalizer.

where. You may void any warranty coverage by installing it yourself. Generally, if a professional damages the equipment—particularly if he's employed by a franchised dealer or authorized service agency—his company must replace it.

In the beginning we told you to forget about in-store listening demonstrations. So what happens if you get a system that falls below your expectations once it's installed? Some dealers permit you to exchange components, but find out what the dealer's policy is *before* you buy. Exchanging a component, however, may be expensive, especially if yours is a custom installation in a new car. The component must be *very* carefully removed—probably by a custom installer—since no dealer will take something back that he can't resell. The cost of initial installation, removal, and installation of the substitute could equal or exceed the cost of the component itself.

Some dealers maintain cars with demonstration systems already installed. This type of field test is certainly better than nothing, and by all means take advantage of such opportunities. Make sure that the demonstration isn't held in the parking lot; you'll want to hear how the FM tuner operates while you're in motion, and what effect road and car noise have on the overall system. Although these demonstrations are not directly relevant to your situation unless your car is very similar in passenger compartment size and acoustics, and the system you're going to buy is identical, they do offer some guidance.

One final suggestion. If you're a little uncertain whether the system you've selected will sound good in your car, you should consider an equalizer. While it's not a cure-all, it does an excellent job of tailoring the sound of everything—especially speakers—to the acoustical peculiarities of your car and the road.

As you can see, planning for and buying a car stereo system is similar in many ways to purchasing a home stereo system. In other ways, though, you're on your own a lot more. Take your time. Choose wisely and carefully. Remember that car stereo specifications are not regulated by the FTC as are those of home components. Remember too that sound demonstrations are basically worthless. You can have an excellent system, but as the adage goes: "There's no free lunch." **HF**

What One Type of Tape Should You Use?

The vital ingredients are the music you record and the deck on which you record it

One thing is certain: the “best” tape depends on *more* than one thing. Two primary considerations are what tape your cassette recorder has been adjusted for at the factory and what type(s) of recording you plan to do. But first it’s helpful to know how the tape and machine interface and what each tape formulation is composed of.

Modern cassette decks are generally outfitted with switches for changing bias and equalization, thereby providing some versatility in the types of tapes that can be used. Essentially, the controls tailor the electronics of the deck to the tape. To better understand these controls, let’s look at the theory behind tape recording.

Some years back, it was a rule that a tape system’s high-frequency limit in kHz was equal to the speed at which the tape was traveling. A tape running at 15 ips was capable of flat response to about 15 kHz; one running at 7½ ips experienced high-end dropoff at 7.5 kHz. In short, recording density was limited to about 1,000 cycles per inch of tape.

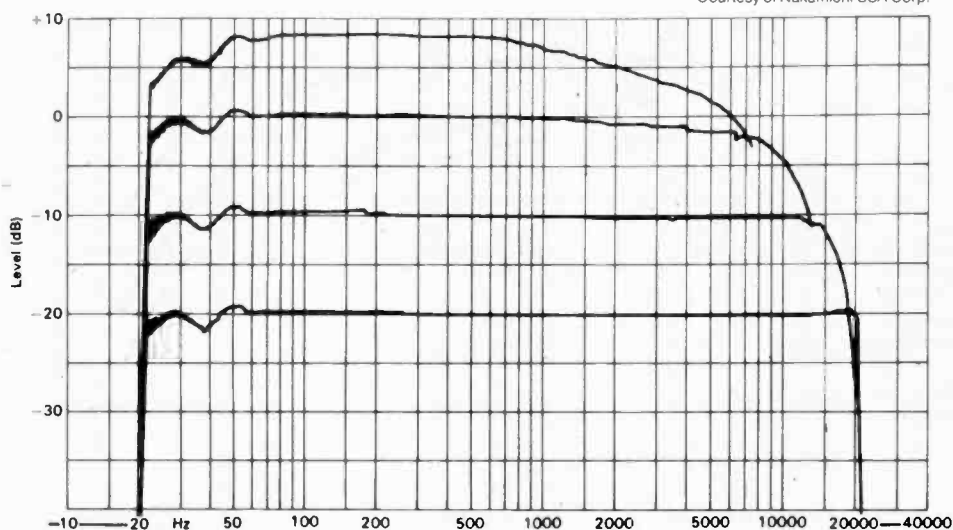
By this logic, the use of a cassette at 1⅞ speed would be impossible. This isn’t the case, of course. Improvements in tape formulation and in magnetic-head design now make it possible to record at densities upwards of 10,000 cycles per inch, and we see cassette recorders capable of 20-kHz response at 1⅞ ips. All this does not negate the truism that the more information one tries to crowd on the tape, the harder the task becomes. The main tool used to overcome tape’s inherent short-wavelength losses is record equalization—a form of high-frequency boost.

While specifications might lead you to think that wide-range, flat frequency response is independent of speed considerations, this is true only at relatively low recording levels. At 15 ips, almost no high-frequency boost in the record circuit is needed; at slower speeds, increasing amounts are required.

But equalization doesn’t solve everything. Tape has a limited maximum recording level. Once the signal you are putting on the tape is raised beyond that level (by recording pre-emphasis) the tape becomes magnetically saturated (can take no more magnetism) and the signal distorts. Distortion increases gradually from the point where signal level rises above the noise floor, but once saturation is reached, distortion jumps to double-digit numbers.

Tape-recorder manufacturers recognized this fact and set the maximum recording level at a point well below tape saturation. In an open-reel machine, operating at 15 ips, 10 to 15 dB (and even more) of head-

Courtesy of Nakamichi USA Corp.



The shape of the frequency response curve depends on the level at which measurements were taken. Response curves shown here were made at -20 dB, -10 dB, 0 dB (or 0 VU), and +10 dB. Note that recording at -20 dB avoids high-frequency saturation, and that the higher the level of recording, the sooner high-frequency falloff occurs.

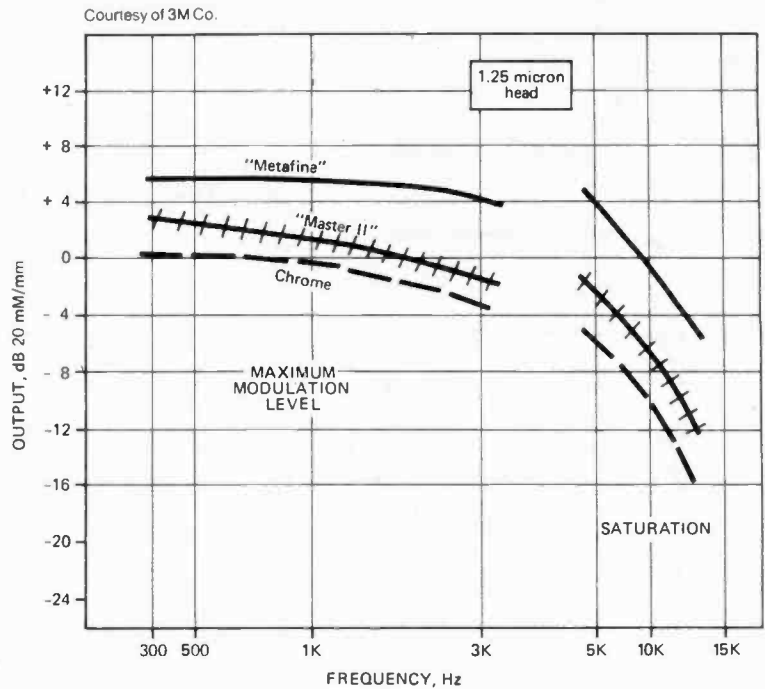
room can exist between the manufacturer's zero VU on his meters and the saturation level of the tape. And since little high-frequency boost was used, this headroom is virtually the same at all frequencies.

What happens at the $1\frac{1}{8}$ -ips speed used by cassette decks? The slow speed means that a good deal of record high-frequency boost (10 to 15 dB at 10 kHz) is needed. Therefore, if a manufacturer has provided 6 dB of headroom at 1 kHz, he has run out of headroom (and into saturation) at 10 kHz at zero level. This explains why, when you see a frequency-response curve run at zero VU on a cassette, high frequencies roll off significantly. A response curve run on a cassette at -20 dB avoids high-frequency saturation and so frequency response may "spec" as good as a professional open-reel deck. But with the professional deck, you can achieve 20-kHz response at *zero* dB.

The amount of recording equalization needed to produce "flat" high-frequency response depends not only on the tape speed but on the characteristics of the tape and heads used. And a key ingredient is bias. The bias level affects both distortion and high-frequency response. Too much bias reduces high-frequency sensitivity; therefore, more recording boost is needed to compensate. That, of course, means even less high-frequency headroom. Too little bias results in greater low-frequency distortion. Suffice it to say that different tapes require different amounts of bias current in order to perform at their best. Improperly set bias affects high-frequency response, headroom, and distortion.

Now, what about the tape itself? Standard tape, both open-reel and cassette, has always been composed of a backing coated with gamma-ferric-oxide particles as the magnetic medium. This finely powdered rust has been the mainstay of the tape industry, and while it continues to serve the open-reel industry well, cassette manufacturers are finding it less than ideal. The first "improved" (high-energy) cassette tapes added very minute amounts of cobalt to the ferric oxide. These tapes had higher "coercivity" and provided better dynamic range (saturation level to noise) especially at high frequencies. The slight performance advantage required a slight change in bias—one that deck manufacturers could easily achieve.

Metal-particle tapes offer significant improvement in dynamic range over conventional and chrome tape formulations. Graph compares 3M's Metafine metal tape with its Master II tape and a conventional chrome tape. Essentially, metal tapes allow you to record at higher levels without driving the tape into saturation.



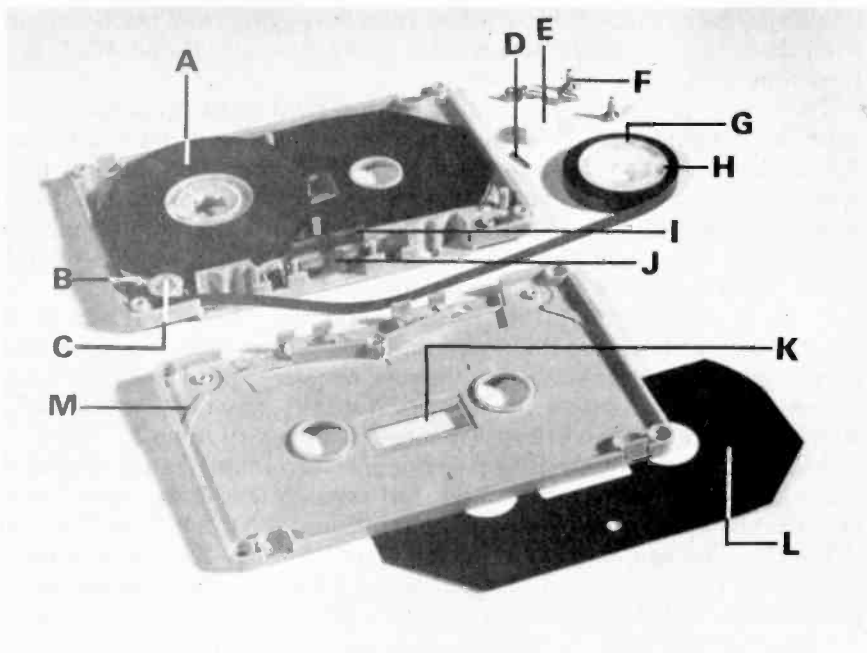
Then DuPont introduced a tape coated with chromium dioxide, a new magnetic formulation, and the revolution in cassette began. Chrome offered a significant improvement in dynamic range at the slow cassette speeds. But it required substantially higher bias, as well as a change in equalization, to provide best frequency response and signal-to-noise ratio. Accordingly, cassette decks were equipped with a switch for chrome recording to increase the bias and to change the equalization appropriately. The "standard" playback equalization setting, which is still used for ferric tapes, is commonly referred to as 120-microsecond equalization; the new equalization required for chrome tapes has been established at 70 microseconds, which continues to be referred to as such.

Advances in technology have yielded improved ferric-oxide formulations, some of which are "chrome-equivalent" and use similar bias and equalization. One tape—ferrichrome—is double-layered, with a ferric-oxide base and a chrome coating over it. It offers the better high end of chrome, along with the extremely good low end of ferric-oxide materials. It requires yet another choice of bias and equalization.

Today's most talked about formulation is a new metal-particle tape. This tape, which essentially uses pure iron alloys (not in oxide form) as the magnetic medium, offers a significant improvement in dynamic range. It requires less high-frequency record equalization than other tapes, but it needs considerably more bias current to record the signal on the tape. Metal tapes promise substantial improvements in signal-to-noise ratio and in high-frequency freedom from saturation.

The industry has settled on the "chrome-standard" 70-microsecond playback equalization for metal tape so that any standard cassette deck with the 70-microsecond (chrome) position can play back this type of tape. However, the bias and recording equalization that are required are so radically different that new cassette decks with metal-*record* capability must be employed to record on it.

If there were only one manufacturer of tape in the world, matching a tape to a cassette deck would be simple. But there are dozens of manufacturers, and while each manufacturer has a tape that will work with a particular deck, that operative word "work" needs some explaining.



The construction of cassettes is less a factor than it once was. Typical quality construction is visible in this TDK cassette. Tape pancake (A) feeds past molded stud (B) and idler assembly (C), which consists of a stainless-steel pin or axle (D) and a flanged plastic wheel (E). Screws (F) hold shell halves together via molded holes. Hub (G) has, in this case, a C-clamp tape-end lock (H). Shield (I) is a plain rectangle of mumetal; pressure pad (J) is felt, mounted on a metal spring assembly. Viewing window is a separate piece of clear plastic, neatly and securely attached to shell. Slip sheet (L) covers all of both pancakes, with cut-outs only for hubs and windows. Ribs (M) not only stiffen shell, but help guide tape onto idler wheel.

Even so-called “standard” tapes—those meant for use with “normal” or “ferric” bias settings—differ substantially from manufacturer to manufacturer. When a manufacturer offers more than one ferric tape, you can rest assured that they will differ in sensitivity and the amount of bias and equalization needed for optimum performance. One tape may be +2 dB at 10 kHz, another, -2 dB. How well a particular tape works on your machine depends on how the deck’s manufacturer set the internally-fixed bias and equalization. Frequently, you can only adjust your deck to one of several fixed positions. Thus, any given cassette deck can actually perform differently depending on the type and brand of tape—even though the tapes were designed for the same settings. For optimum performance, it is important to find out what type and brand of tapes your deck was set up for.

Some modern decks have been designed to get around this problem by providing a separate bias adjustment—a kind of vernier control of bias amount around the nominal settings of the switch. Even more advanced are the decks that incorporate microcomputers to automatically set the bias to conform with the type of tape being used. When both recording equalization and bias are microcomputer-adjusted, you have the ultimate in performance potential.

The construction of the cassette itself is less a factor than it once was. Some years ago, a controversy existed over whether internal roller bearings or fixed bearings allowed the best tape motion. Because the mechanical construction of the cassette can profoundly affect overall performance, particularly as regards flutter and the stability of high-frequency response, all quality cassettes now use roller bearings. All manufacturers of quality tape seem to have achieved sufficient reliability, regardless of their approach, so that the cassette shell itself no longer is a significant factor in the purchase of tape. This, of course, does not apply to the so-called “white-box” brands, which we recommend you do not buy.

Should you, then, always use the best tape you can get? No, if only because it can be a considerable waste of money much of the time. It all depends on the types of recordings you plan to make. At one end there is baby’s first coo (or cry); at the other end, sophisticated on-location mate-

rial. Four basic categories (recording speech, copying from radio, copying from discs, and recording live music) cover most situations. We'll take these one at a time.

The demands of speech recording require good signal-to-noise but not extended frequency response (as it applies to high-frequency headroom). Accordingly, you can use standard ferric-oxide formulations. For most speech applications, the second line offered by premium manufacturers works well. More exotic formulations offer no particular additional benefits. Stick with name-brand manufacturers; you still want a reliably made cassette shell as well as good quality tape.

If you're thinking of off-the-air taping and your source will be rock radio stations, you can use the premium-ferric type of tape. Most rock stations process their signal via compressors, equalizers, and other devices to reduce dynamic range to a virtual zero. Actually, any tape system with a 30-dB dynamic range will capture most rock and all disco.

A few stations are attempting to offer greater dynamic range. Classical-music stations are the leaders here, but even rock stations have discovered that listeners want quality. Some stations (WNCN in New York and WFMT in Chicago, for example) offer signal-to-noise figures in excess of 70 dB, but they are clearly the exception. All stations are limited to approximately 15 kHz at the high end, because they must suppress the audio to prevent it from interfering with the 19-kHz stereo-pilot signal.

For high-quality, wide-dynamic-range signals, we suggest the chrome (or chrome-equivalent) tapes. One note of caution when recording rock music: Don't modulate the audio at zero on your tape deck; use -10 dB as a reference. This will better control the middle high-frequency accenting of some rock stations, and prevent further distortion.

Until recently, we would have recommended that you use the same tapes for recording from discs as you would for taping from the radio, with the additional warning that the high energy on the discs at high frequencies can overload the tape unless you lower the record level somewhat.

The new technology of direct-to-disc and digital mastering of the discs has altered this recommendation. If you plan to copy such audiophile discs, begin with the premise that you will not be able to transfer to any cassette the full dynamics and frequency response of the disc. The best copy will be that which follows the suggestions for live-music recording.

What we suggest here encompasses a solo guitarist or other soloist recorded at home, to a rock band, to a chamber orchestra, and to a full symphony orchestra. Let's begin with the understanding that any recording of live music requires more dynamic capability than any tape can give you. A noise-reduction system, such as Dolby-B, which is standard on virtually all quality cassette decks, increases the dynamic-range capability of the tape and should always be used.

In live recording, or in audiophile-disc dubbing, you want the best tape possible. Metal tape seems to be the ultimate choice because of its performance superiority at cassette speeds. There are certain instruments you should beware of, notably those that are percussive or plucked, such as piano and guitar. They produce intense spikes that overload any tape if the level is too high, and therefore should not be recorded at zero recording level even on high-speed open-reel decks. If you bring the level down to about -12 dB or so, a metal-equipped cassette deck can, and will, produce a master tape with impressive sound.

Which tape is best? By this time, you may have answered that question for yourself. Always buying the best tape can result in overkill. Sure you can use a metal-particle tape to record the baby's first word, but will you get a better recording? The only certainty is that you will be recording on a more expensive tape. **HF**

Buying Guide to more than 3,000 Stereo Components



There are literally thousands of stereo components available today, and as we've pointed out elsewhere in this magazine, one of the best ways to select the units you want is to compare what's available. We think this special buying guide section is a good place to begin. Here's how to use it to your best advantage.

First, we make no claims that we have tested any of the equipment listed here, nor that the specs represent lab results. In compiling the information, we faced a problem: since not all manufacturers rate their equipment in the same way, and since it would be impossible for us to test every piece of equipment, how could we come up with comparable data that would allow you—the buyer—to use this information effectively?

We settled on a series of guidelines, which we sent to the manufacturers and asked them to adhere to when providing the performance specs. If they deviated from the guidelines, we asked them to state how they had obtained their particular measurements.

Where a particular spec does not appear, it means that the manufacturer did not supply it. N/A, or "not available," is generally re-

served for new products on which complete information was unavailable at press time. Prices were supplied by the manufacturer, and may vary from area to area and among stores.

Because of space limitations, not every model produced by every manufacturer has been fully listed. Those on which complete specifications do not appear are summarized at the end of the manufacturer's product listing, and generally are those designated by the manufacturer as of lowest priority for listing.

You may want more information about specific products, in which case we suggest that you use our handy reader-service card or write directly to the manufacturers at the addresses in the directory. We also should add that, though manufacturers have assured us that all products listed here will be available at the time you buy this magazine, this has not always proved to be the case in the past.

Guidelines for each of the equipment types follow.

Power Amplifiers. Manufacturers were asked to specify power in watts (and dBW) delivered on a continuous basis into a specified resistance in ohms over a specified frequency range at a specified percentage of total harmonic distortion (THD). An intermodulation distortion (IM) rating was requested as a percentage at a specified output in watts. Frequency response was to be reported over a frequency range of the manufacturer's choice, plus or minus a \pm dB figure, also of the manufacturer's choice. Signal-to-noise ratio (S/N) was to be expressed in dB with a specified weighting relative to a specified output in watts.

Preamplifiers. Specifications requested included frequency response, output in volts, THD expressed as a percentage, IM expressed as a percentage, sensitivity of both phono and high-level inputs expressed in millivolts, the phono overload point in millivolts, and phono equalization specifications. Also requested were bass, midrange (if available), and treble control ranges, along with high- and low-filter turnover points and slopes.

Integrated Amplifiers. Because these combine the characteristics of power amps and preamps, all of the above specifications were requested.

Tuners. Quieting refers to 50 dB quieting, unless otherwise specified. Both S/N and THD are given at 65 dB. Selectivity is alternate-channel; subcarrier rejection refers only to stereo operation. When two sets of specifications are given, divided by a slash mark, the figure before the slash refers to mono operation; the figure after the slash, to stereo operation. If a manufacturer has submitted figures for only the mono mode, the mode is specified in parentheses.

Receivers. Information requested for tuners applies to the tuner section of receivers; that requested for amplifiers applies to the power section of receivers, with the following additions. Sensitivity of the amp sec-

tion is specified in the number of millivolts necessary to produce 0 dBW (1 watt). In amp S/N specifications, the weighting and reference specified by the manufacturer is in parentheses.

Turntables. Five types are covered: manual (single-play, no automatic features on tonearm); semiautomatic (raises and returns arm at end of play); fully automatic (positions arm at lead-in groove automatically and returns arm to rest at end of play); automatic repeat (fully automatic with repeat-play capability); and changer (fully automatic with multiple-record capability). All turntables are presumed to have cueing levers, unless otherwise indicated. Manufacturers were requested to specify rumble in dB, referenced to a specific standard, wow and flutter in percent, and the specific measuring method, the recommended tracking force range, and the range of tracking error in degrees and minutes.

Tonearms. Length is measured from pivot to stylus. Friction is specified in milligrams. Resonance point is specified in Hz with reference to a specific cartridge.

Phono Cartridges. Both lateral and vertical compliance were requested. Output was to be referenced to a certain number of centimeters-per-second at a specific frequency. Separation was to be measured at 1 kHz.

Open-Reel Decks. Reel size refers to the largest reel the deck can accommodate. Flutter and frequency response was requested for each of the deck's playing speeds. Separation and erasure were to be measured at 1 kHz. Each manufacturer was asked to specify a ± 1 recommended tape and a ± 2 recommended tape, and to supply performance specifications using the recommended tapes.

Cassette Decks. The same information was requested for cassette decks as for open-reel decks.

Speaker Systems. Manufacturers were requested to designate the design of the speaker system, the number and type of drivers, the system's response with reference to a certain number of dB SPL measured at one meter at one watt, the recommended minimum and maximum power in watts and dBW, the crossover points, and any special controls.

Equalizers. "Bands" refers to the number of equalization points in each channel, and "range" specifies the degree (in dB) to which each band can be adjusted. A parametric equalizer is one in which the center frequency of the bands can be adjusted.

Signal Processors. These include both noise-reduction units, and what might be called a variety of signal-enhancement devices. An expander (sometimes called a "dynamic range enhancer") exaggerates loudness differences in the program source and is used to compensate for the compression system often used in recording and broad-

casting. While compression can help prevent distortion in the loudest signals (and masking of the quietest by noise), it robs the program material of some of its dramatic impact. Expansion can restore the original dynamics precisely only when the compression characteristics are known and the expander is designed to react reciprocally to them.

Compressors offer both compression and expansion of signal dynamics, usually with options that allow reciprocal actions in these two modes of operation.

Some noise-reduction devices are special-purpose compressors that compress dynamic values for recording or broadcast and supply reciprocal expansion for playback or reception. With only rare exceptions, the same system must be used in both "encoding" (compression) and "decoding" (expansion) if dynamic values—and, often, other sound properties—are to be restored accurately. This makes most systems mutually incompatible.

The amount of compression and/or expansion is expressed as a ratio.

Headphones. Specifications were requested for frequency response; sensitivity, expressed in dB with a specific input in milliwatts; impedance; maximum power, expressed either in millivolts or dB; and total harmonic distortion, expressed as a percentage, either at a given sound pressure level (SPL) and a given frequency, or at a given input level measured in millivolts.

Microphones. Manufacturers were requested to indicate transducer type, polar pattern, frequency response, output (relative to 1 milliwatt output, at a sound pressure of 10 microbars), and impedance.

Raw Tape. For open-reel, cassette, and video tape, manufacturers were asked to indicate the type of coating and the lengths in which the tape is available. Special construction or packaging features are also noted.

Car Stereo Systems. In general, the specifications requested for car stereo tuners, tape players, amps, and speakers were the same as those of home component models. Manufacturers were also asked to indicate where in a vehicle the components were designed to be installed.

Video Cassette Equipment. This includes only VCRs intended for home use. "Format" refers to the design of the VCR system, such as VHS, Beta, etc. The "half-speed" mode reflects the current status of VHS and Beta VCRs. Some recorders offer only a single (high) speed; others offer two speeds, the second one usually 33 $\frac{1}{3}$ % slower. Specifications for video resolution and video S/N were requested for both the black and white and color modes.

Accessories. Essentially, this is a wide-open category where manufacturers were simply requested to "describe" the item. In most cases the listings represent only a sampling of a company's entire accessory line. Complete catalogues generally are available directly from the particular company.

Amplifiers

(including Power Amps, Preamps, and Integrated Amps)

ACE

Ace Audio Co.
532 5th St.
East Northport, N.Y. 11731

3100 Preamplifier

Price \$325 (wired)
Dimensions 2¾H x 14½W x 7D (separate power supply, 3¼ x 3 x 2)
Weight 5 lbs.
Inputs Phono; 2 tape; tuner; aux
Response 20 Hz to 20 kHz, ±0.1 dB
Output 10V
THD 0.02%
IM 0.02%
Sensitivity 1 mV (phono); 100 mV (high level)
Overload 90 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.5 dB
Features Two-way tape dubbing; separate power supply for lowest possible hum and noise on phono

35x2 Super Power Amplifier

Price \$239 (Super)
Dimensions 3½H x 14W x 8½D
Weight 13 lbs.
Power 35 watts (15.5 dBW) continuous into 4 or 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 35 watts
Response 20 Hz to 20 kHz, ±0.2 dB
S/N 90 dB (unweighted re 35 watts)
Features Heavy aluminum heat sink extrusion; special circuitry for low distortion at normal listening levels (50 mW to 1 watt); 35x2 Super contains double-sized filter capacitors

8000 "Chunky" Power Amplifier

Price \$189; 2 or more \$185 each
Dimensions 7¼H x 9½W x 6½D
Weight 7 lbs. 8 oz.
Power 70 watts (18.5 dBW) continuous into 4 or 8 ohms from 20 Hz to 10 kHz at no more than 0.1% THD
IM 0.1% at 70 watts
Response 15 Hz to 20 kHz, ±0.1 dB
S/N 90 dB (unweighted re 70 watts)

Models also available

3000 Preamplifier, \$250 (wired)

ACOUSTAT

Acoustat Corp.
3101 S.W. 1st Terrace
Ft. Lauderdale, Fla. 33315

Reference Preamplifier

Price \$950
Dimensions 5¼H x 19W x 11¾D
Weight 10 lbs.
Inputs 3 phono; 1 tape; 3 (high level)

Features Two-way tape dubbing; electronic muting; crowbar relay to protect DC-coupled equipment; balance control

ADCOM

Adcom
11A Jules Lane
New Brunswick, N.J. 08901

GFA-1 Power Amplifier

Price \$400
Dimensions 10½H x 8½W x 6½D
Weight 25 lbs.
Power 200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.1%

Features Fully complementary; bridged mode; uses toroidal transformer dual power supplies; built-in fan; thermal overload protection; damping factor, 200; slew rate, 80V/ms; finished in black

AEA

Analog Engineering Associates, Inc.
520 Park Ave., S.
Winter Park, Fla. 32789

Analogue 620 Power Amplifier

Price \$1,340
Dimensions 7H x 19W x 16¼D
Weight 78 lbs.
Power 350 watts (25.5 dBW) continuous into 8 ohms from 10 Hz to 40 kHz at no more than 0.08% THD
IM 0.02% at 350 watts
Response 10 Hz to 40 kHz, ±0.5 dB
S/N 110 dB (A-weighted re 350 watts)
Features Slew rate, 65V/ms; peak-reading meters; overload protection

Analogue 520 Preamplifier

Price \$600
Dimensions 4¾H x 14¾W x 10¼D
Weight 11 lbs.
Inputs 2 phono; 2 tape; tuner; aux
Response 10 Hz to 60 kHz, ±0.5 dB
Output 2.5V
THD 0.005%
IM 0.005%
Sensitivity 1.7 mV (phono); 100 mV (high level)
Overload 125 mV (phono)
Phono EQ 20 Hz to 60 kHz, ±0.5 dB
Bass control ±12 dB at 50 Hz
Treble ±12 dB at 10 kHz
High filter 6 dB/octave above 7.5 kHz
Low filter 12 dB/octave below 15 Hz
Features All components to NASA specifications

Analogue 515 Moving-Coil Cartridge Preamplifier

Price \$225
Dimensions 4¾H x 9¼W x 3¼D
Weight 4 lbs.
Inputs Phono
Response 10 Hz to 30 kHz, ±0.5 dB
Output 0.05V
THD 0.005%
IM 0.005%
Sensitivity 0.005 mV (phono)
Overload 35 mV (phono)

Models also available

Analogue 610 Power Amplifier, \$850

AGI

Audio General, Inc.
1631 Easton Road
Willow Grove, Pa. 19090

511A Preamplifier

Price \$495
Dimensions 5¼H x 14W x 10D
Weight 13 lbs.
Inputs Phono; 2 tape; tuner; aux
Response 20 Hz to 20 kHz, ±0.1 dB
Output 5V
THD 0.005%
IM 0.005%
Sensitivity 5.1 mV (phono); 230 mV (high level)
Overload 160 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.25 dB
High filter 12 dB/octave at user-specified frequency
Low filter 12 dB/octave at user-specified frequency
Features Two-way tape dubbing; "Tone Send" button for external equalizer; 250V/microsecond phono slew rate; optional high-gain phono at no extra charge; optional filter, \$50

AIWA

Aiwa America
35 Oxford Dr.
Moonachie, N.J. 07074

AA-8700U Integrated Amplifier

Price \$550
Dimensions 6 3/16H x 18 9/16W x 14 13/15D
Weight 38 lbs. 6 oz.
Inputs 2 phono; tape; tuner; aux
Power 75 watts (18.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.02% at 75 watts
Response 5 Hz to 100 kHz, +0, -3 dB
Sensitivity 2.5 mV (moving magnet); 220 mV (moving coil); 150 mV (high level)
Overload 280 mV (phono)

S/N 83 dB (phono); 100 dB (aux) (IHF A-weighted re 75 watts short-circuited)

Phono EQ 30 Hz to 15 kHz, ± 0.2 dB

Bass control ± 8 dB at 200 or 400 Hz

Treble ± 10 dB at 2.5 kHz or 5 kHz

High filter 12 dB/octave above 10 kHz

Low filter 12 dB/octave below 30 Hz

Features One-way tape dubbing; two-way tape dubbing; separable power and preamp; built-in moving-coil head amp; 2-position frequency turnover switches for bass and treble; 2-system tape dubbing; -20 dB muting; 3-position tape monitoring; DC amplifier; peak-reading power meters

SA-P22U Power Amplifier

Price \$210

Dimensions 2 $\frac{7}{8}$ H x 8 5/16W x 8 3/16D

Weight 8 lbs. 6 oz.

Power 30 watts (14.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.06% THD

IM 0.04% at 30 watts

Response 10 Hz to 50 kHz, ± 1 dB

S/N 95 dB

Features DC circuitry; 5-LED power indicator; self-resetting protection circuit; mini design

SA-C22U Preamplifier

Price \$140

Dimensions 2 13/16H x 8 5/16W x 6 $\frac{1}{2}$ D

Weight 3 lbs. 11 oz.

Inputs Phono; tape; tuner; aux

Response 20 Hz to 20 kHz, ± 0.5 dB

Output 600 mV (phono); 720 mV (aux 1, 2, tuner); 860 mV (tape out)

THD 0.1%

Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 200 mV (phono)

Phono EQ 20 Hz to 20 kHz, ± 0.2 dB

Bass control ± 8 dB at 100 Hz

Treble ± 8 dB at 10 kHz

High filter 12 dB/octave below 30 Hz

Features One-way tape dubbing; low-filter switch; -20 dB muting; dual positive and negative power supply; click-stop tone control; mini design

Models also available

AA-8300U Integrated Amplifier, \$300

AKAI

Akai America, Ltd.
2139 E. Del Amo Blvd.
Compton, Calif. 90220

AM-2850 Integrated Amplifier

Price \$475

Dimensions 6 7/10H x 17 3/10W x 16 9/10D

Weight 34 lbs. 8 oz.

Inputs 2 phono; 2 tape; 1 tuner; 1 aux

Power 95 watts (19.75 dBW) continuous into 4 ohms from 20 Hz to 20 kHz at no more than 0.08% THD

Response 3 Hz to 60 kHz, +0, -1 dB

S/N 75 dB (phono); 95 dB (aux) (IHF-weighted)

Phono EQ 30 Hz to 15 kHz, 30, -1 dB

Bass control ± 9 dB at 100 Hz

Midrange ± 10 dB at 1 kHz

Treble ± 9 dB at 10 kHz

High filter 6 dB/octave above 10 kHz

Low filter 6 dB/octave below 30 Hz

Features Two-way tape dubbing; separable power and preamp; DC amplifier

AM-2450 Integrated Amplifier

Price \$225

Dimensions 5 7/10H x 17 3/10W x 13 3/5D

Weight 21 lbs., 13 oz.

Inputs 1 phono; 2 tape; 1 tuner; 1 aux

Power 45 watts (16.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD

Response 6 Hz to 60 kHz, ± 1 dB

S/N 75 dB (phono); 95 dB (aux) (IHF-weighted)

Phono EQ 30 Hz to 15 kHz, ± 1 dB

Bass control ± 9 dB at 100 Hz

Treble ± 9 dB at 10 kHz

Features Two-way tape dubbing

Models also available

AM-2650 Integrated Amplifier, \$300; AM-2250 Integrated Amplifier, \$150

APT

Apt Corp.
147 Sidney St.
Cambridge, Mass. 02139

Holman Preamplifier

Price \$493 (East coast); \$502 (West coast)

Dimensions 3 $\frac{1}{8}$ H x 15 1/32W x 8 1/5D

Weight 10 lbs.

Inputs 2 phono; 2 tape; 1 tuner; 2 aux

Response 20 Hz to 20 kHz, ± 0.5 dB

Output 2V

THD 0.01%

IM 0.01%

Sensitivity 1.25 mV (phono); 80 mV (high level)

Overload 130 mV (phono)

Phono EQ 30 Hz to 15 kHz, ± 0.2 dB

Bass control ± 15 dB at 20 Hz

Treble ± 10 dB at 20 kHz

High filter 12 dB/octave above 40 kHz

Low filter 18 dB/octave below 15 Hz

Features Two-way tape dubbing; ultrasonic filter; mono/stereo/difference mode control; cartridge termination resistance and capacitance; anti-crosstalk switching

1 Power Amplifier

Price N/A

Dimensions 3 $\frac{1}{8}$ H x 15 1/32W x 10 $\frac{1}{4}$ D

Weight 20 lbs.

Power 200 watts (23 dBW) continuous into 4 or 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD

IM 0.01% at 200 watts

Response 20 Hz to 20 kHz, ± 0.1 dB

S/N 100 dB

Features Dynamic headroom of +6 dB; class ABD amplification with 12 MOSFET output stage and tracking supply for combined efficiency with low distortion

Models also available

2 Power Amplifier, N/A

ARMSTRONG

Armstrong Audio (U.S.A.) Inc.
Sindell Organization
11046 Santa Monica Blvd.
Los Angeles, Calif. 90025

621

Price \$395

Dimensions 3 $\frac{1}{4}$ H x 12 $\frac{1}{4}$ W x 11 $\frac{1}{4}$ D

Weight 10 lbs. 8 oz.

Power 40 watts (16 dBW) continuous into 4 to 16 ohms from 20 Hz to 20 kHz at no more than 0.08% THD

IM 0.08% at 40 watts

Response 20 Hz to 20 kHz, ± 1 dB

Sensitivity 3/6 mV (phono); 120 mV (high level)

Overload 75/120 mV (phono)

S/N 65 dB (phono); 65 dB (aux) (unweighted)

Phono EQ 20 Hz to 20 kHz, ± 1 dB

Bass control ± 15 dB at 70 Hz

Treble ± 13 dB at 14 kHz

High filter 6 or 12 dB/octave above 3 or 5 kHz

Low filter 12 dB/octave below 20 Hz

Features One-way tape dubbing

AUDIO DEVELOPMENTS INTERNATIONAL

Audio Developments International
644 Emerson St.
Palo Alto, Calif. 94301

1252 Power Amplifier

Price \$1,500

Dimensions 10H x 19W x 20D

Weight 80 lbs.

Power 185 watts (22.75 dBW) continuous into 8 ohms from DC to 50 kHz at no more than 0.005% THD

IM 0.005% at 185 watts

Response DC to 50 kHz, ± 0.5 dB

S/N 106 dB (unweighted re 1 watt)

Features Class A operation; studio applications; LED peak meters

AUDIO RESEARCH

Audio Research Corp.
2843 26th Ave. South
Minneapolis, Minn. 55406

D-350B Power Amplifier

Price \$3,500

Dimensions 10 $\frac{1}{2}$ H x 19W x 17 $\frac{1}{4}$ D

Weight 105 lbs.

Power 350 watts (25.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.25% THD

IM 0.1% at 350 watts

Response 1 Hz to 50 kHz, ± 1 dB

S/N 100 dB (unweighted re 350 watts)

Features Fans; meters; relays and logic for load protection; industrial grade components and construction; rated for continuous commercial service

D-79 Power Amplifier

Price \$3,250

Dimensions 10 $\frac{1}{2}$ H x 19W x 17 $\frac{1}{4}$ D

Weight 85 lbs.

Power 75 watts (18.75 dBW) continuous into 4/8/16 ohms from 20 Hz to 20 kHz at no more than 1% THD

IM 0.5% at 75 watts

Response 15 Hz to 40 kHz, ± 3 dB

S/N 90 dB (unweighted re 75 watts)

Features Vacuum tube amplifier; meters; fans; level controls; industrial grade components and construction

D-100B Power Amplifier

Price \$1,495

Dimensions 7H x 19W x 10 $\frac{1}{2}$ D

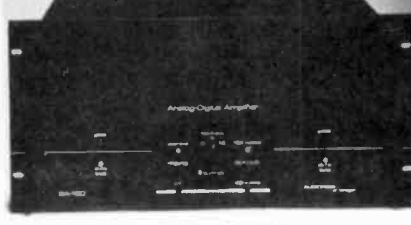
Weight 44 lbs.

Power 100 watts (20 dBW) continuous into 8 ohms from 1 Hz to 20 kHz at no more than 0.25% THD

IM 0.1% at 100 watts



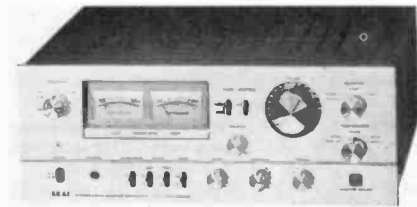
AGI 511



Audionics BA-150



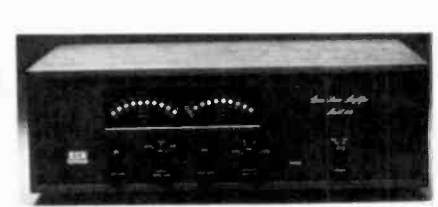
Berning TF-10



Akal AM-2850



Audio Scientific 1500



BGW 410

Response 1 Hz to 50 kHz, ± 1 dB
S/N 90 dB (unweighted re 100 watts)
Features Industrial grade construction and components; rated for continuous commercial service

MCP-22 Preamplifier

Price \$1,195
Dimensions 5 1/4 H x 19 W x 10 1/4 D
Weight 22 lbs.
Inputs 31 phono
Response 1 Hz to 250 kHz, ± 3 dB
Output 2V (50V rms max)
THD 0.02%
IM 0.01%
Sensitivity 0.25 mV (phono)
Overload 400 mV (phono)
Phono EQ 20 Hz to 40 kHz, ± 0.25 dB
Features Vacuum tube moving-coil preamplifier; connects to conventional preamplifier at AUX input

SP-6A Preamplifier

Price \$1,195
Dimensions 5 1/4 H x 19 W x 10 1/4 D
Weight 22 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 2 aux
Response 1 Hz to 250 kHz, ± 3 dB
Output 2V (50V rms max)
THD 0.02%
IM 0.01%
Sensitivity 2 mV (phono); 100 mV (high level)
Overload 700 mV (phono)
Phono EQ 20 Hz to 40 kHz, ± 0.25 dB
Features One-way tape dubbing; vacuum tube unit

SP-5 Preamplifier

Price \$895
Dimensions 3 1/2 H x 19 W x 8 1/2 D
Weight 20 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 2 aux
Response 5 Hz to 100 kHz, ± 1 dB
Output 5V
THD 0.005%
IM 0.005%
Sensitivity 5 mV (phono); 100 mV (high level)
Overload 150 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 1 dB
Features Provision for internal pre-preamp for moving-coil cartridges

Models also available

D-110B Power Amplifier, \$2,750;
 D-52B Power Amplifier, \$1,195;
 SP-4A Preamplifier, \$1,195

A Note on Prices

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

AUDIO SCIENTIFIC by SUPEREX
Superex Electronics Corp.
 151 Ludlow St.
 Yonkers, N.Y. 10705

1500 Power Amplifier

Price \$750
Dimensions 5 H x 19 W x 12 D
Power 85 watts (19.25 dBW) continuous into 8 ohms from 8 Hz to 150 kHz at no more than 0.1% THD
IM 0.1% at 85 watts
Response 8 Hz to 150 kHz, ± 0.5 dB
S/N 115 dB (A-weighted re 85 watts)
Features Class A design; 3.4 dB clipping headroom; relay/fuse protection; LED level, 12 per channel

1500 Power Amplifier

Price \$550
Dimensions 5 H x 19 W x 12 D
Power 50 watts (17 dBW) continuous into 8 ohms from 8 Hz to 150 kHz at no more than 0.1% THD
IM 0.1% at 50 watts
Response 8 Hz to 150 kHz, ± 0.5 dB
S/N 115 dB (A-weighted re 50 watts)
Features Class A design

AUDIONICS

Audionics of Oregon
 10950 S.W. 5th St.
 Building 160
 Beaverton, Ore. 97005

BA-150 Power Amplifier

Price \$2,950
Dimensions 10 1/2 H x 19 W x 14 D
Weight 85 lbs.
Power 150 watts (21.75 dBW) continuous into 4, 8, 16 ohms from 30 Hz to 30 kHz at no more than 0.25% THD (depends upon switchable feedback setting)
IM 0.25% at 150 watts
Response 30 Hz to 30 kHz, ± 1 dB
S/N 90 dB (weighted re 150 watts)
Features Hybrid analog/digital design with patented tube output stage allowing cool operation; all bias functions controlled by digital computer

BP-1 Mono Power Amplifier

Price \$499
Dimensions 5 1/4 H x 19 W x 14 D

Weight 38 lbs.
Power 125 watts (21 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 125 watts
Response 5 Hz to 70 kHz, ± 3 dB
S/N 90 dB (unweighted re 125 watts)
Features Low-TIM design

PZ3 Series II Power Amplifier

Price \$499 \$589 with peak-reading meters)
Dimensions 6 1/2 H x 19 W x 14 D
Weight 35 lbs.
Power 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% at 100 watts
Response 5 Hz to 70 kHz, ± 3 dB
S/N 95 dB (weighted re 100 watts)
Features Optional version with peak-reading VU meters and input-level controls; biasing circuit controls biasing of output stage under dynamic conditions, allowing cool operation of output stage

BT-2 Preamplifier

Price \$449
Dimensions 3 1/2 H x 19 W x 8 D
Weight 12 lbs.
Inputs Phono; tape; tuner; aux
Response 20 Hz to 20 kHz, ± 0.5 dB
Output 7V
THD 0.015%
IM 0.015%
Sensitivity 1.5 mV (phono); 75 mV (high level)
Overload 150 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Low filter 12/18 dB/octave below 15 Hz (switchable)

Features Straight-line design without tone controls; Class A; RIAA circuit eliminates phono cartridge interaction with feedback loop; modified power supply/dual tracking regulator; modified RIAA circuitry

Models also available

PZ3 Professional Power Amplifier, \$589; CC-2 Power Amplifier, \$489 with peak-reading LEDs and handles

BEDINI

Bedini Electronics, Inc.
 13000 San Fernando Rd.
 Sylmar, Calif. 91342

45/45 Power Amplifier

Price \$1,200

Dimensions 6½H x 19W x 15D
Weight 42 lbs. 8 oz.
Power 45 watts (16.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 45 watts
Response 20 Hz to 20 kHz, ±0.5 dB
S/N 100 dB
Features Class A, forced-air cooling, auto bias tracking; special feedback, current monitoring, 25-amp output current capacity; bridgeable, for 240 watts Class A at 4 ohms; cap coupled to speakers

BERNING
Precedent Audio Products, Inc.
306 E. Oliver St.
Baltimore, Md. 21202

TF-10 Preamplifier

Price \$1,395
Dimensions 3½H x 19W x 12D
Weight 6 lbs.
Inputs 3 phono; 2 tape, 1 tuner; 2 aux
Response 10 Hz to 100 kHz, ±1 dB
Output 8V (into 10K)
THD 0.5%
IM 0.5%
Sensitivity 0.8 mV (phono), 60 mV (high level), ref 1V out
Overload 130 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.25 dB
Features One-way tape dubbing, two-way tape dubbing; remote mute; passive RIAA, local feedback only; monitoring of any input; individually buffered tape outputs for each tape out

BEVERIDGE
Harold Beveridge, Inc.
505 E. Montecito
Santa Barbara, Calif. 93103

RM-1 Preamplifier

Price \$2,000
Dimensions 3½H x 19W x 9½D
Inputs 2 phono; 2 tape; 1 tuner, 1 aux
Response 0.15 Hz to 600 kHz, ±0.05 dB
Output 1V
THD 0.03%
IM 0.03%
Sensitivity 20 mV (phono); 100 mV (high level)
Overload 1,000 mV (phono)
Phono EQ 0.15 Hz to 600 kHz, ±0.005 dB
High filter 6/12/18 dB/octave above 20 kHz, (progressive)
Low filter 1/36 dB/octave below 20 Hz (progressive)
Features Two-way tape dubbing; separate power supply

BGW
BGW Systems, Inc.
13130 S. Yukon Ave.
Hawthorne, Calif. 90250

410 Power Amplifier

Price \$879
Dimensions 5¼H x 19W x 11¼D
Weight 35 lbs.
Power 200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.07% THD
IM 0.02% from 0.25 to 200 watts
Response 3 Hz to 100 kHz, +0, -3 dB
S/N 110 dB (unweighted re 200 watts)

Features Dual channel, ten-segment light-metering power display; modular construction; speaker switching; TIM-free design

203 Preamplifier

Price \$710
Dimensions 5¼H x 19W x 11¼D
Weight 18 lbs. 8 oz.
Inputs 2 phono; 2 tape; 1 tuner; 2 aux
Response 20 Hz to 20 kHz, ±0.2 dB
Output 4V (rated) (8V max into 600 ohms)
THD 0.01%
IM 0.01%
Sensitivity 1.3/5 mV (phono); 10V (high level)
Overload 100 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.25 dB
Bass control ±18 dB at 50 Hz (in precise 3 dB steps)
Treble ±18 dB at 15 kHz (in precise 3 dB steps)
High filter 18 dB/octave above 12 kHz
Low filter 18 dB/octave below 20 Hz
Features One-way tape dubbing; two-way tape dubbing; seven-position mode control; Class A circuitry; individual switched tone controls; precision detented volume and balance controls; separate power and preamp power switches; provision for 12V relay signal; front panel dubbing jacks (phono stage gain is 42 dB, line amp gain is either 22 dB or 10 dB; to produce 2 volts output at the main output terminals with full gain the input required would therefore be 1.3 or 5 millivolts, front panel gain switch therefore accommodates a wide range of cartridges)

110 Power Amplifier

Price \$439
Dimensions 1¾H x 19W x 11½D
Weight 18 lbs. 8 oz.
Power 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.07% THD
IM 0.02% from 0.25 to 50 watts
Response 3 Hz to 100 kHz +0, -3 dB
S/N 106 dB

Models also available

210 Power Amplifier, \$659; 103 Preamplifier, \$439

BIAMP

Biamp Systems, Inc.
10950 S.W. 5th Ave., # 110
Beaverton, Ore. 97005

TC/120 Power Amplifier

Price \$565
Dimensions 5¼H x 19W x 10D
Weight 29 lbs.
Power 150 watts (21.75 dBW) continuous into 8 ohms from 7 Hz to 107 kHz at no more than 0.005% THD
IM 0.0021% at 150 watts
Response 7 Hz to 107 kHz +3 dB
S/N 105 dB
Features Balanced or unbalanced inputs; DC output protection relay; short proof protection; convection cooling

TC/60 Power Amplifier

Price \$445
Dimensions 3½H x 19W x 9½D
Weight 19 lbs.
Power 60 watts (17.75 dBW) continuous into 8 ohms from 4 Hz to 80 kHz at no more than 0.08% THD
IM 0.01% at 60 watts
Response 4 Hz to 80 kHz ±0.5 dB
S/N 105 dB
Features Mono bridgeable complementary outputs; short proof protected; positive track bias regulation

Models also available

TC-225 Power Amplifier, \$390

BOZAK

Bozak, Inc.
P.O. Box 1166
Darien, Conn. 06820

929 Power Amplifier

Price \$925
Dimensions 7H x 17¼W x 12D
Weight 46 lbs.
Power 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.2% THD
IM 0.2% at any wattage below 150 watts
Response 20 Hz to 20 kHz, ±0.1 dB
S/N 100 dB (unweighted re 150 watts)
Features DC protection; input-level controls; thermal protection; all-silicon circuitry; direct-reading power meters

909 Preamplifier

Price \$490
Dimensions 5¼H x 17¼W x 6½D
Weight 21 lbs.
Inputs 2 phono; 2 tape; tuner; aux
Response 20 Hz to 20 kHz, ±0.25 dB
Output 10V
THD 0.1%
IM 0.1%
Sensitivity 2.5 mV (phono); 260 mV (high level)
Overload 100 mV (phono)
Phono EQ 30 Hz to 15 kHz, ±0.5 dB
High filter 12 dB/octave above 6.5 kHz
Low filter 12 dB/octave below 85 Hz
Features One-way tape dubbing; equalized tape outputs; separate bass and treble for each channel; all-silicon discrete circuitry

CMA-10-2DL Stereo Mixer/Preamplifier

Price \$825
Dimensions 5¼H x 19W x 10½D
Weight 31 lbs.
Inputs 2 phono; 1 tape; 2 mic; 2 aux
Response 20 Hz to 20 kHz, ±0.25 dB
Output 2.5V (+24 dBm maximum)
THD 0.2%
IM 0.1%
Sensitivity 1.4 mV (phono); 140 mV (high level)
Overload 100 mV (phono)
Phono EQ 30 Hz to 15 kHz, ±0.5 dB
Bass control ±10 dB at 50 Hz
Treble ±10 dB at 10 kHz
Features One-way tape dubbing; monitor output 10V rms at 200 ohms; convertible inputs

Models also available

919 Preamplifier, \$875; 939 Power Amplifier, \$525

BRYSTON

Bryston Vermont (Distributor)
RFD 4, Berlin
Montpelier, Vt. 05602

3B Power Amplifier

Price \$795
Dimensions 5¼H x 19W x 9D
Weight 35 lbs.
Power 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.025% from 10 mW to 100 watts
Response 1 Hz to 100 kHz
S/N 100 dB
Features 400 watts bridged into 8 ohms (bridging switch); 500-sq. in. heat sink (over 1,000 sq. in. with chassis); no-fail LED pilot light; red LED clipping Indicators

1B Preamplifier

Price \$600
Dimensions 3½H x 19W x 10D
Inputs 2 phono; 2 tape
Response 0.5 Hz to 50 kHz, ±1 dB
Output 9V (max)
THD 0.005%
IM 0.005%
Features One-way tape dubbing

2B Power Amplifier

Price \$495
Dimensions 3½H x 19W x 10D
Weight 25 lbs.
Power 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.025% from 10 mW to 50 watts
Response 1 Hz to 100 kHz
S/N 100 dB
Features 200 watts bridged into 8 ohms (bridging switch); 250-sq. in. heat sink; no-fail LED pilot light; red LED clipping indicators

CARVER

Carver Corp.

1214 Highway 99
 Everett, Wash. 98072

C-4000 Preamplifier

Price \$867
Dimensions 6¼H x 19W x 8D
Weight 10 lbs.
Inputs 2 phono; 2 tape; 1 tuner; 2 aux
Response 5 Hz to 200 kHz, ±0.1 dB
Output 2.5V
THD 0.02%
IM 0.01%
Sensitivity 0.85 mV (phono); 50 mV (high level)
Overload 150 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.25 dB
Bass control 40 Hz
Midrange Turnover or loudness control (selectable)
Treble 2 kHz or 8 kHz turnover (selectable)
Features One-way tape dubbing; two-way tape dubbing; sonic hologram generator; peak-unlimiter; autocorrelator; 3-channel time delay with 25-watt amplifier

M-400 Power Amplifier

Price \$349
Dimensions 6¼H x 6¾W x 6¼D
Weight 12 lbs.
Power 200 watts (23 dBW) continuous into 8 ohms from 1 Hz to 20 kHz at no more than 0.05% THD
IM 0.06% at 200 watts
Response 1 Hz to 250 kHz, ±0.25 dB
S/N 100 dB (A-weighted re 200 watts)
Features Moving LED displays with VU ballistics; 50 dB dynamic range

Models also available

C-500 Power Amplifier, \$689

CM LABS

Audio International, Inc.
 3 Cole Place
 Danbury, Conn. 06810

CM-920 Power Amplifier

Price \$899
Dimensions 7H x 19W x 10D
Weight 50 lbs.
Power 225 watts (23.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 225 watts
Response 5 Hz to 100 kHz, ±1 dB
S/N 100 dB (unweighted re 225 watts)
Features LED output indicators; input level controls; speaker-protection relays

CM-300 Preamplifier

Price \$549
Dimensions 5¼H x 19W x 17D
Weight 30 lbs.
Inputs 2 phono; 2 tape; tuner; aux
Response 2 Hz to 80 kHz, ±0.5 dB
Output 2V (rated 10V max)
THD 0.05%
IM 0.02%
Sensitivity 0.6 mV (phono); 200 mV (high level)
Overload 300 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.25 dB
Bass control ±12 dB at 20 Hz
Treble ±12 dB at 20 kHz
High filter 12 dB/octave above 6 kHz
Low filter 6 dB/octave below 50 Hz
Features Two-way tape dubbing; headphone output; adjustable phono level; FET buffers at all inputs

CM-620 Preamplifier

Price \$499
Dimensions 10½H x 19W x 7D
Weight 16 lbs.
Inputs 3 phono; 2 tape; 1 tuner; 2 mic; 1 aux
Response 20 Hz to 20 kHz, ±0.2 dB
Output 10V
THD 0.05%
IM 0.05%
Sensitivity 3 mV (phono); 200 mV (high level)
Overload 200 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.5 dB
Bass control ±12 dB at 20 Hz
Midrange ±12 dB at 1 kHz
Treble ±12 dB at 20 kHz
Low filter 6 dB/octave below 50 Hz
Features One-way tape dubbing; all inputs may be mixed; all inputs may be previewed via headphone prior to mixing; each mic has EQ-LED output display

CM-301 Preamplifier

Price \$250
Dimensions 1¾H x 19W x 8D
Weight 5 lbs.
Inputs Phono; tape; tuner; aux
Response 2 Hz to 80 kHz, ±0.5 dB
Output 2V (rated 10V max)
THD 0.05%
IM 0.02%
Sensitivity 1.6 mV (phono); 200 mV (high level)
Overload 300 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.25 dB
Low filter 6 dB/octave below 50 Hz
Features Rack-mountable; FET buffer at all inputs

Models also available

CM-914a Power Amplifier, \$499;
 CM-610 Preamplifier, \$399

CROWN

Crown International
 1718 W. Mishawaka Road
 Elkhart, Ind. 46514

DL-2 Preamplifier

Price \$2,195
Dimensions 7H x 19W x 14½D
Weight 20 lbs.
Inputs 9 phono; 9 tape; 9 tuner; 9 mic; 9 aux
Response 1 Hz to 100 kHz, ±0.5 dB
Output 12V
THD 0.0008% at rated output
IM 0.0003%
Sensitivity 2.5 mV (phono), adjustable ±10 dB
Overload 33 to 330 mV (phono) (depending on gain)
Phono EQ ±0.5 dB (RIAA or flat; switch provided)
Bass control ±15 dB at 20/40/80 Hz
Midrange ±15 dB at 400 Hz/800 Hz/1.6 kHz
Treble ±15 dB at 5/10/20 kHz
High filter 18 dB/octave above 4/7/12/20 kHz
Low filter 18 dB/octave below 20/30/50/100 Hz
Features Three-way tape dubbing; can be computer-controlled; panorama control; precision gain control in ½ dB steps; separate power supply module for low hum and noise; remote control; external processors inputs separate from tape system; high-level phono input can be set by user

SA-2 Power Amplifier

Price \$1,595
Dimensions 7H x 19W x 14D
Weight 55 lbs.
Power 220 watts (23.5 dBW) continuous into 8 ohms from DC to 20 kHz at no more than 0.05% THD
IM 0.002% at 220 watts
Response DC to 100 kHz, ±1 dB
S/N 115 dB at full rated output
Features Two-speed fan cooling (inaudible); remote mute; stereo/mono switch; four on-board computers that analyze demand and immediate history of amplifier and load to deliver maximum-safe output power; walnut veneer or rosewood cabinets available; IOC[®] Music Distortion Indicator

PSA-2 Power Amplifier

Price \$1,495
Dimensions 7H x 19W x 14¾D
Weight 57 lbs.
Power 220 watts (23.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.01% at 220 watts
Response 20 Hz to 20 kHz, ±0.1 dB
S/N 115 dB (A-weighted re 220 watts)
Features IOC[®] Music Distortion Indicator; signal presence indicator; standby LED indicator; power on indicator; balanced inputs (high "Z"); high pass and low pass filters (switchable in or out and frequency rolloff points can be changed to make the PSA-2 a true biampifier); test tone generator (50 pulses per second); limiter compressor (with variable threshold); 5-second delay; low-frequency protection (DC to 10 Hz) mono dual switch; chassis/circuit ground separation (with removal of ground strap); unbalanced input-overrides balanced input (high "Z"); 2-speed fan

Straight Line One Preamplifier

Price \$599
Dimensions 3½H x 19W x 7¾D
Weight 10 lbs.
Inputs 1 phono; 2 tape; 1 tuner; 1 aux
Response 10 Hz to 20 kHz, ±0.1 dB
Output 10V
THD 0.0003%
IM 0.00055%
Sensitivity 2.5 mV (phono) (adjustable ±10 dB)
Overload 33 to 330 mV (phono) (depending on gain)
Phono EQ ±0.5 dB (RIAA)

Low filter 18 dB/octave below 30 Hz
Features Separate phono preamp module; precision-stepped gain control in 2 dB steps; preamp overload; indicators; stepped rotary balance control; handles standard; walnut or rosewood cabinets optional

Power Line One Power Amplifier

Price \$499
Dimensions 3½H x 19W x 12¼D
Weight 15 lbs.
Power 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.0001% at 50 watts
Response 5 Hz to 100 kHz, +0, -3 dB
S/N 110 dB (A-weighted re 50 watts)
Features IOC® Music Distortion Indicator; 3 speaker connections per channel; LED ladder signal display; chassis-circuit ground separation (with removal of ground strap); stereo/mono switch; stereo headphone output; phase response, +10 to -15 degrees, 20 Hz to 20 kHz at one watt; NTIM distortion, 0.0035% at 50W/channel, 8 ohms; handles standard; rosewood or walnut veneer cabinets optional

IC-150A Preamplifier

Price \$469
Dimensions 5¼H x 19W x 8½D
Weight 10 lbs.
Inputs 2 phono; 2 tape; tuner; 3 aux
Response 3 Hz to 100 kHz, ±0.6 dB
Output 12V
THD 0.0005%
IM 0.02%
Sensitivity 2.5 mV (phono), adjustable ±10 dB

Overload 33 to 330 mV (phono) (at 1 kHz, depending on gain)

Phono EQ ±0.5 dB (RIAA)
Bass control ±15 dB at 30 Hz
Treble ±15 dB at 15 kHz
High filter 12 dB/octave above 5 kHz
Low filter 6 dB/octave below 24 Hz
Features Panorama control; stepped attenuator; output attenuator

Models also available

M-2000 Power Amplifier, \$4,390;
M-600 Mono Power Amplifier, \$2,195;
DC-300A Power Amplifier, \$899;
D-150A Power Amplifier, \$599;
D-75 Power Amplifier, \$399

DAYTON WRIGHT

Dayton Wright Associates, Ltd.
350 Weber St., N.
Waterloo, Ont. N2J 4E3,
Canada

SPA Preamplifier

Price \$1,399 (with head amp)
Dimensions 3½H x 19W x 13D
Weight 20 lbs.
Inputs 4 phono; 2 tape; tuner; 2 aux
Response 1 Hz to 200 kHz, +0, -1 dB
Output 9V
THD 0.001%, 20 Hz to 20 kHz at 1V out
IM 0.002%, 20 Hz to 20 kHz at 1V out
Sensitivity 1.5/0.03 mV (phono); 60 mV (high level)

Overload MM, 100 mV; MC, 14 mV
Phono EQ 30 Hz to 15 kHz, ±0.5 dB
Features Two-way tape dubbing; DC power-supply pre-preamp included; available without head amp, \$1,199

DW-535 535 Pre-Preamplifier

Price \$499
Dimensions 2H x 10W x 7D
Weight 7 lbs.
Inputs Phono
Response 5.5 Hz to 200 kHz, +0, -3 dB
Output 800 mV
THD 0.002%, 20 Hz to 20 kHz at 10 mV out
IM 0.002%, 20 Hz to 20 kHz at 10 mV out
Sensitivity 0.03 mV (phono)
Overload 14 mV (phono)

Models also available

SPS Mk 3 Preamplifier, \$599

DB SYSTEMS

DB Systems

P.O. Box 187

Jaffrey Center, N.H. 03454

DB-100 Preamplifier

Price \$850
Inputs 2 phono; 1 tape; 1 tuner; 1 aux
Response 2 Hz to 50 kHz, +0, -1 dB
Output 10V
THD 0.001%
IM 0.001%
Sensitivity 1.8 mV (phono); 120 mV (high lev)
Overload 150 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.05 dB
Low filter 6 dB/octave below 20 Hz
Features Two-way tape dubbing; spectrum balance control

DBR-15A Preamplifier

Price \$799.95 (requires DB-2 power supply, \$62)
Dimensions 3½H x 9½W x 7D
Weight 5 lbs.
Inputs 2 aux
Response 2 Hz to 50 kHz, +0, -1 dB
Output 10V
THD 0.0008%
IM 0.001%
Sensitivity 1.8 mV (phono); 120 mV (high level)
Overload 150 mV (phono)
Phono EQ 10 Hz to 40 kHz, ±0.07 dB
Bass control ±15 dB at 50/150/400 Hz
Treble ±15 dB at 1.5/3.5/7.5 kHz
High filter 6 dB/octave above 5/10 kHz
Low filter 6 dB/octave below 20/30 Hz
Features One-way tape dubbing

DB-4A Pre-Preamplifier

Price \$175
Dimensions 2¼H x 6¼W x 4½D
Weight 1 lb.
Inputs Moving-coil cartridge
Response 10 Hz to 100 kHz, +0, -0.1 dB
Output 1V (max)
THD 0.0008%
IM 0.001%
Features Three gain settings

Models also available

DB-6M Mono Power Amplifier, \$650;
DB-6 Power Amplifier, \$595;
DB-1A Preamplifier, \$438 (requires DB-2 power supply, \$62).

DENNESEN

Dennesen Electronics

P.O. Box 51

Beverly, Mass. 01915

DM-73S Power Amplifier

Price \$1,000
Dimensions 8H x 14W x 14D
Weight 50 lbs.
Power 35 watts (15.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.05%
Response 20 Hz to 20 kHz
Features Tube design

Antares Power Amplifier

Price \$450
Dimensions 5¼H x 19W x 8D
Weight 35 lbs.
Power 100 watts (20 dBW) continuous into 8 ohms from 5 Hz to 50 kHz at no more than 0.05% THD
IM 0.05% at 100 watts
Response 5 Hz to 50 kHz, ±1 dB
Features Power MOSFET

Sirius Preamplifier

Price \$350
Dimensions 1¾H x 19W x 6D
Weight 5 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 1 aux
Response 0 Hz to 100 kHz, ±0.1 dB
Output 5V
THD 0.001%
IM 0.001%
Overload 3000 mV 20 kHz (phono)
Phono EQ R1AA ±0.1 dB
Features One-way tape dubbing; plug-in crossover (2 or 3 way) available; 40 or 60 dB selectable phono gain

Models also available

DM IV Power Amplifier, \$700

DENON

American Audioport, Inc.
1407 N. Providence Road
Columbia, Mo. 65201

POA-1003 Power Amplifier

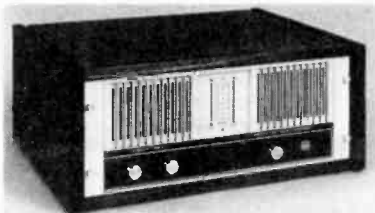
Price \$900
Dimensions 200mm H x 410mm W x 280mm D
Weight 48 lbs. 6 oz.
Power 85/100 watts (19.25/20 dBW) continuous into 8/4 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.02% at 85 watts into 8 ohms
Response 0 Hz to 100 kHz, +0, -1 dB
S/N 119 dB (A-weighted re 85 watts)
Features Two separate power-supply transformers; damping factor of 200; gold RCA connectors; large peak meters; infrasonic filters; A/B speaker switching for each channel

PMA-850 Integrated Amplifier

Price \$800
Dimensions 164mm H x 434mm W x 400mm D
Weight 37 lbs. 6 oz.
Inputs 3 phono; 2 tape; 1 tuner; 1 aux
Power 85 watts (19.25 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD
IM 0.02% at 85 watts
Response 5 Hz to 100 kHz, +0, -1 dB
Sensitivity 2.5 mV (phono); 320 mV (high level); 0.37 mV/40 ohms (moving coil input)
Overload 200 mV (phono)
S/N 89 dB (phono); 105 dB (aux) (A-weighted re 85 watts)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass control ±8 dB at 100 Hz
Treble ±8 dB at 10 kHz
High filter 12 dB/octave above 9 kHz



Carver C-4000



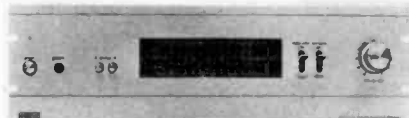
Crown SA-2



Fisher CA-2420



CM Labs 301



Eumig M-1000



GAS Thalia

Low filter 12 dB/octave below 20 Hz
Features Two-way tape dubbing; separable power and preamp; phono 3 is high quality low-noise moving-coil head amp input; all sections including head amp and tone controls are symmetrical complementary push-pull circuitry; phono crosstalk canceller; low flux leakage toroidal power transformer

PRA-1003 Preamplifier

Price \$600
Dimensions 152mm H x 410mm W x 271mm D
Weight 17 lbs. 10 oz.
Inputs 2 phono; 3 tape; 1 tuner; 1 aux
Response 10 Hz to 100 kHz, +0, -1 dB
Output 10V (rated output 1V)
THD 0.003% 20 to 20 kHz, 3V
Sensitivity 2.5 mV (phono)
Overload 320 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass control ± 10 dB at 50 Hz
Treble ± 10 dB at 20 kHz
High filter 6 dB/octave above 9 kHz
Low filter 18 dB/octave below 20 Hz
Features Two-way tape dubbing; switchable phono input impedance; 86 dB S/N ratio; direct coupled FET input phono equalization with differential circuitry throughout; 100 dB channel separation; gold-plated terminals; headphone level control

Models also available

PMA-630 Integrated Amplifier, \$450; PMA-501 Integrated Amplifier, \$340

DYNACO/DYNAKIT

Dynaco, Inc.
 P.O. Box 612
 Needham, Mass. 02198

Mk 600 Power Amplifier

Price \$300 (assembled)
Dimensions 6 $\frac{1}{4}$ " H x 10" W x 10" D
Weight 28 lbs.
Power 60 watts (17.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% at 60 watts
Response 8 Hz to 50 kHz, +0, -1 dB
S/N 100 dB (unweighted re 100 watts)
Features Bridge circuit for mono 150 watts rms at 8 ohms; LED peak-clipping indicator

PAT-6 Preamplifier

Price \$300 (assembled)
Dimensions 3 $\frac{1}{4}$ " H x 19" W x 10" D
Weight 13 lbs.

Inputs 2 phono; 2 tape; 1 tuner; 2 mic; 1 aux
Response 10 Hz to 50 kHz, ± 1 dB
Output 2V (7V max)
THD 0.01%
IM 0.01%
Sensitivity 2.1 mV (phono); 0.2 mV (high level)
Overload 115 mV (phono)
Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Bass control ± 10 dB at 50 Hz
Treble ± 10 dB at 15 kHz
High filter 15 dB/octave (-10 dB at 10 kHz)
Low filter 6 dB/octave (-4 dB at 10 Hz)
Features Two-way tape dubbing; moving-coil cartridge phono input

EDINBURGH WIRELESS CO.

Import Audio
 13430 Clayton Rd.
 St. Louis, Mo. 63131

A-50 Integrated Amplifier

Price \$750
Inputs 2 phono (1 moving-magnet; 1 moving-coil)
Power 50 watts (17 dBW) continuous into 8 ohms at no more than 0.03% THD
Features Compact size

EUMIG

Eumig USA, Inc.
 Lake Success Business Park
 225 Community Drive
 Great Neck, N.Y. 11020

M-1000 Power Amplifier

Price \$795
Dimensions 5 $\frac{1}{4}$ " H x 19" W x N/A D
Power 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.0075% THD
Response DC to 150 kHz, ± 1 dB
S/N 105 dB (A-weighted re 100 watts)
Features Slew rate of 172V/microseconds; dual 12-segment peak-power LED display with switchable 10:1 attenuator; 30 dB muting switch; 2-system speaker selector with headphone jack; champagne or matte-black finish; rack-mountable

C-1000 Preamplifier

Price \$580
Dimensions 2 $\frac{1}{4}$ " H x 19" W x N/A D

Inputs 2 (1 moving-coil, 1 moving-magnet) phono; 2 tape; 1 tuner; 1 aux
Response DC to 150 kHz, ± 1 dB
Output 1V (nominal); 5V (max)
THD 0.005%
Sensitivity 2.5 mV (MM, 47K ohms); 250 μ V (MC, 150 ohms) (phono)
Overload 200 mV, MM; 10 mV, MC (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass control ± 12 dB
Treble ± 12 dB
High filter 12 dB/octave above 12 or 8 kHz (switchable)
Low filter 12 dB/octave below 70 or 15 Hz (switchable)
Features Full 2-way tape dubbing; champagne or matte-black; tone-defeat switch; straight DC from AUX input; switch provision for insert of external equalizer; loudness contour and low-boost (switchable)

FISHER

Fisher Corp.
 21314 Lassen St.
 Chatsworth, Calif. 91311

CA-2420 Integrated Amplifier

Price \$549.95
Dimensions 5 $\frac{1}{4}$ " H x 17 1/3" W x 13" D
Weight 24 lbs.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Power 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.02% at 80 watts
Response 20 Hz to 20 kHz, ± 0.05 dB
Sensitivity 2.5 mV (phono); 60 μ V (phono moving coil)
Overload 230 mV (phono); 6 mV (phono moving coil)
S/N 100 dB (aux); 65 dB (phono moving coil) (A-weighted re 80 watts)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Low filter 12 dB/octave below 20 Hz
Features Two-way tape dubbing; separable power and preamp; 5-band graphic equalizer ± 10 dB at 50 Hz, 250 Hz, 1 kHz, 4.5 kHz, 15 kHz; large power meters; 5-position tape selector

CA-2220 Integrated Amplifier

Price \$399.95
Dimensions 5 $\frac{1}{4}$ " H x 17 1/3" W x 13" D
Weight 22 lbs.
Inputs 1 phono; 2 tape; 1 tuner; 1 aux
Power 50 watts (11.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.02% at 50 watts
Response 20 Hz to 20 kHz, ± 0.5 dB
Sensitivity 2.5 mV (phono)

Overload 230 mV (phono)
S/N 80 dB (phono); 90 dB (aux) (A-weighted re 50 watts)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Low filter 6 dB/octave below 10 Hz
Features Two-way tape dubbing; separable power and preamp; 5-band graphic equalizer (± 10 dB at 50 Hz, 250 Hz, 1 kHz, 4.5 kHz, 15 kHz); large power meters

Models also available

CA-2320 Integrated Amplifier, \$399.95; CA-2120 Integrated Amplifier, \$329.95

GLI

GLI Division of VSC Corp.
29-50 Northern Blvd.
Long Island City, N.Y. 11101

SA-2125 Power Amplifier

Price \$675
Dimensions 5 $\frac{1}{4}$ "H x 19W x 15D
Weight 27 lbs. 8 oz.
Power 120 watts (21 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 120 watts
Response 20 Hz to 20 kHz, ± 0.25 dB
S/N 100 dB (unweighted re 100 watts)
Features Circuit breakers for each channel; plug-in circuit boards; cooling fan; clipping lights; thermal overload light and auto reset

3990 Preamplifier

Price \$615
Dimensions 7H x 19W x 4D
Weight 15 lbs.
Inputs 3 phono; 3 aux
Output 12V (at 10K ohms clipping)
THD 0.01%
IM 0.01%
Sensitivity 2 mV (phono); 500 mV (high level)
Overload 320 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.25 dB
Low filter 18 dB/octave below 18 Hz (infra-sonic on phono input)
Features Mixing of all inputs; mic talkover; complete input cueing; companion unit to Model 1010

1010 Preamplifier/Processor

Price \$310
Dimensions 3 $\frac{1}{2}$ "H x 19W x 4D
Weight 7 lbs.
Inputs 2 tape
Response 20 Hz to 20 kHz, ± 0.25 dB
Output 1.5V (12V clipping)
THD 0.01%
IM 0.01%
Bass control ± 12 dB at 20 Hz
Midrange ± 6 dB at 1.2 kHz
Treble ± 12 dB at 15 kHz
Features Two-way tape dubbing; stereo blend; balancing; calibrated meters; stereo mode switching; defeatable tone controls; companion piece to Model 3990

Models also available

PMX-9000 Preamplifier, \$400

GREAT AMERICAN SOUND
Great American Sound Co.
20940 Lassen St.
Chatsworth, Calif. 91311

Godzilla (Class A) Power Amplifier

Price \$3,500

Dimensions 7H x 19W x 19 $\frac{1}{2}$ D
Weight 100 lbs.
Power 90 watts (19.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 90 watts
Response DC to 350 kHz, -3 dB
Features Class A circuitry; 1-ohm capability (400 watts/channel); servo-controlled, balanced-bridge output; 600V/ μ sec slew rate; damping factor >400

Godzilla (Class AB) Power Amplifier

Price \$3,500
Dimensions 7H x 19W x 19 $\frac{1}{2}$ D
Weight 100 lbs.
Power 350 watts (25.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 350 watts
Response DC to 350 kHz, -3 dB
Features Servo-controlled, balanced-bridge output; 2-ohm capability (1,000 watts/channel); 600 V/ μ sec slew rate; damping factor >400

Thaedra II Preamplifier

Price \$1,099
Dimensions 6H x 17W x 12 $\frac{3}{4}$ D
Weight 33 lbs.
Inputs 2 phono; 3 tape; tuner; 2 aux
Response DC to 100 kHz, ± 3 dB (20 Hz to 20 kHz, ± 0.1 dB)
Output 10V
THD 0.01%
IM 0.01%
Sensitivity 0.07 mV (head amp); 3.2 mV (phono); 200 mV (high level)
Overload 3.5 mV (head amp); 220 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.25 dB
Bass control ± 12 dB at 20 Hz
Treble ± 10 dB at 20 kHz
Low filter 12 dB/octave below 10/20/30/50 Hz (switchable)
Features Two-way tape dubbing; built-in moving-coil phono capability; tape monitor and copy for 3 decks; line amp capable of driving headphones directly

Thoebe Preamplifier

Price \$649
Dimensions 5 $\frac{1}{4}$ "H x 17W x 8D
Weight 28 lbs.
Inputs 2 phono; 2 tape; tuner; 2 aux
Response 1 Hz to 100 kHz, ± 1 dB (20 Hz to 20 kHz, ± 0.1 dB)
Output 10V
THD 0.01%
IM 0.01%
Sensitivity 3.2 mV (phono); 200 mV (high level)
Overload 100 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.25 dB
Bass control ± 12 dB at 20 Hz
Treble ± 10 dB at 20 kHz
Low filter 12 dB/octave below 10/20/30 Hz (switchable)
Features Two-way tape dubbing; full complementary Class A circuitry; headphone-driving capability; separate left and right tone controls

Thalia II Preamplifier

Price \$399
Dimensions 3 $\frac{1}{2}$ "H x 19W x 10D
Weight 18 lbs.

A Note on Prices

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

Inputs 2 phono; 1 tape; 1 tuner; 1 aux
Response 20 Hz to 20 kHz, ± 0.1 dB
Output 2V
THD 0.015%
IM 0.01%
Sensitivity 3.0 mV (phono); 190 mV (high level)

Overload 250 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.3 dB
Bass control ± 12 dB at 20 Hz
Treble ± 8 dB at 20 kHz
Low filter 6 dB/octave below 10 Hz
Features Output mute; servo-controlled line and phono; full complementary Class A circuitry; direct-coupled outputs

Models also available

Ampzilla IIa Power Amplifier, \$1,099; Son of Ampzilla Power Amplifier, \$579; Grandson Power Amplifier, \$399; \$449 with meters

GREAT WHITE WHALE
Great White Whale Distr., Inc.
348 E. 84th St.
New York, N.Y. 10028

625 Power Amplifier

Price \$1,150
Dimensions 6H x 18W x 13D
Weight 55 lbs.
Power 200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05%
Response 1 Hz to 150 kHz
S/N 110 dB

846 Preamplifier

Price \$395
Dimensions 2 $\frac{1}{2}$ "H x 18W x 7D
Weight 20 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 1 aux
Response 1 Hz to 150 kHz
Output 10V
THD 0.001%
IM 0.001%
Sensitivity 0.1 mV (phono)
Overload 500 mV (phono)
Features One-way tape dubbing

308 Pre-Preamp

Price \$90
Dimensions 2H x 7W x 5D
Weight 5 lbs.
Response 1 Hz to 1 mHz
Output 8V
THD 0.001%
IM 0.001%
Sensitivity 0.1 mV (phono); 0.01 mV (high level)
Overload 200 mV (phono)

Models also available

615 Power Amplifier, \$750

HAFLER

David Hafler Co.
5817 Roosevelt Ave.
Pennsauken, N.J. 08109

DH-200 Power Amplifier

Price \$299.95 (kit); \$399.95 (assembled)
Dimensions 4 $\frac{3}{4}$ "H x 16W x 9 $\frac{1}{4}$ D
Weight 30 lbs.
Power 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
Response 10 Hz to 40 kHz, ± 0.5 dB
S/N 100 dB (unweighted re 100 watts)
Features MOSFET output stage; rack-mountable; mono strapable 300W into 8 ohms

DH-101 Preamplifier

Price \$199.95 (kit); \$299.95 (assembled)
Dimensions 3¼H x 13¼W x 8¾D
Weight 9 lbs.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Response 20 Hz to 20 kHz, ±0.25 dB
Output 3V
THD 0.001%
Overload 180 mV (phono)
Phono EQ 30 Hz to 20 kHz, ±0.5 dB
Bass control ±12 dB at 50 Hz
Treble ±10 dB at 20 kHz
Features One-way tape dubbing; two-way tape dubbing; accessory moving coil pre-preamp; accessory rack-mount kit; black knob set and wooden cabinet

HAPI

Hegeman Audio Products, Inc.
176 Linden Ave.
Glen Ridge, N.J. 07028

HAPI Two Preamplifier

Price \$900
Dimensions 1¾H x 19W x 9D
Weight 5 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 1 aux
Response 2 Hz to 350 kHz
Output 6V (rms)
THD 0.03%
IM 0.03%
Sensitivity 2 mV (phono); 100 mV (high level)
Overload 300 mV (phono)
Phono EQ 2 Hz to 100 kHz, ±0.1 dB
Features One-way tape dubbing

HAPI One Preamplifier Control Unit

Price \$720
Dimensions 3½H x 5½W x 9D (control unit); 1¾H x 2¼W x 7D (preamp)
Weight 4 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 1 aux
Response 2 Hz to 350 kHz
Output 6V (rms)
THD 0.03%
IM 0.03%
Sensitivity 2 mV (phono)
Overload 300 mV (phono)
Phono EQ 2 Hz
Features One-way tape dubbing

HARMAN KARDON

Harman Kardon
55 Ames Court
Plainview, N.Y. 11803

Citation 16A Power Amplifier

Price \$699 (with power LEDs)
Dimensions 9¾H x 19W x 14D
Weight 55 lbs.
Power 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 150 watts
Response 4 Hz to 120 kHz, ±1.5 dB
S/N 100 dB
Features Two separate power supplies; DC coupled; available without power LEDs as Citation 16S (\$599)

Citation 17 Preamplifier/Equalizer

Price \$499
Dimensions 4¾H x 16W x 12D
Weight 20 lbs.
Inputs 2 phono; 1 tape; 1 tuner; 3 aux

Response 3 Hz to 270 kHz, ±1.5 dB
Output 14V
THD 0.001%
IM 0.0025%
Sensitivity 2.8 mV (phono); 200 mV (high level)
Overload 180 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.25 dB
Bass control ±12 dB at 50 Hz
Midrange ±12 dB at 70 Hz
Treble ±12 dB at 8 kHz
High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 20 Hz
Features One-way tape dubbing; two-way tape dubbing; five-band equalizer; 4-stage, fully discrete phono preamp; equalizer defeat switch; detented controls

HK-505 Integrated Amplifier

Price \$399
Dimensions 5¾H x 16¾W x 14½D
Weight 31 lbs.
Inputs 1 phono; 2 tape; 1 tuner; 1 aux
Power 60 watts continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.06% at 60 watts
Response 1 Hz to 140 kHz, ±1.5 dB
Sensitivity 2.2 mV (phono); 130 mV (high level)
Overload 22.5 mV (phono)
S/N 88 dB (phono); 100 dB (aux) (A-weighted)
Phono EQ 20 Hz to 20 kHz, ±0.5 dB
Bass control ±12 dB at 20 Hz
Treble ±12 dB at 20 kHz
High filter 12 dB/octave above 6 kHz
Low filter 12 dB/octave below 18 Hz
Features Two-way tape dubbing; separable power and preamp; DC-coupled 4-stage phono preamp; detented controls; capacitance matching switch; tape monitor LED; tone defeat switch; twin power supplies; variable bass/treble hinge points

Citation 175 Preamplifier

Price \$175
Dimensions 4¾H x 16W x 12D
Weight 20 lbs.
Inputs 2 phono; 2 tape; 1 tuner; 3 aux
Response 3 Hz to 270 kHz, ±1.5 dB
Output 14V
THD 0.002%
IM 0.0025%
Sensitivity 2.8 mV (phono); 200 mV (high level)
Overload 180 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.25 dB
High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 20 Hz
Features One-way tape dubbing; two-way tape dubbing; four-stage, fully discrete phono preamp; detented controls; two preamp outputs

Models also available

Citation 19 Power Amplifier, \$499;
hk-503 Integrated Amplifier, \$279

HEATHKIT

Heath Co.
Benton Harbor, Mich. 49022

AA-1640 Power Amplifier

Price \$450 (kit)
Dimensions 7¼H x 19W x 18D
Weight 58 lbs.
Power 200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 200 watts

Response 7 Hz to 50 kHz, -1 dB
S/N 100 dB at 200 watts
Features Optional peak-responding meters

AP-1800 Preamplifier

Price \$379.95 (kit)
Dimensions 5¼H x 19W x 11¼D
Weight 20 lbs.
Inputs 3 phono; 2 tape; 1 tuner; 2 aux
Response 20 Hz to 20 kHz, ±0.2 dB
Output 9V
THD 0.03%
IM 0.02%
Sensitivity 100 µV/200 µV/400 µV (selectable); (phono); 200 mV (high level)
Overload 200 mV (phono)
Bass control ±12 dB at 20 Hz
Treble ±12 dB at 20 kHz
High filter 12 dB/octave above 6/12 kHz (selectable)
Low filter 12 dB/octave below 20/50 Hz (selectable)

AA-1600 Power Amplifier

Price \$359.95 (kit)
Dimensions 7¾H x 19W x 13D
Weight 38 lbs. 4 oz.
Power 125 watts (21 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 125 watts
Response 7 Hz to 50 kHz, ±1 dB
S/N 100 dB
Features Optional oak finish cabinet, \$34.95; preassembled amplifier and power supply circuit boards; rack-mount or free standing

Models also available

AA-1515 Power Amplifier, \$300 (kit); AP-1615 Preamplifier, \$139.95 (kit)

HITACHI

Hitachi Sales Corp. of America
401 W. Artesia Blvd.
Compton, Calif. 90220

HMA-3300 Power Amplifier

Price \$800
Dimensions 7¼H x 17¾W x 16D
Weight 53 lbs.
Power 200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.05% at 100 watts
Response 20 Hz to 20 kHz, ±0.5 dB
S/N 110 dB (IHF A-weighted re 200 watts)
Features Class G design (400 watts x 2); infrasonic filter

HA-5700 Integrated Amplifier

Price \$429.95
Power 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
Response 5 Hz to 100 kHz, +0, -1 dB
Sensitivity 2.5 mV (phono)
S/N 83 dB (phono); 90 dB (aux)
Bass control ±9 dB at 100 Hz
Treble ±9 dB at 10 kHz
Low filter 6 dB/octave below 20 Hz
Features Power MOSFET output devices; LED power indicators

HCA-8300 Preamplifier

Price \$350
Dimensions 6H x 17¾W x 12¾D
Weight 14 lbs. 5 oz.

Inputs 2 phono; 2 tape; tuner; 2 aux
Response 20 Hz to 20 kHz, ± 0.2 dB
Output 1V
THD 0.01%
IM 0.01%
Sensitivity 2 mV (phono); 6 mV (high level) (50K)
Overload 400 mV (phono) (1 kHz)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass control ± 10 dB at 50 Hz
Treble ± 10 dB
High filter 6 dB/octave above 8 kHz
Low filter 12 dB/octave below 20 Hz
Features Two-way tape dubbing; gain select controls (-5 dB, -10 dB, -20 dB); tone turnover and defeat switches; phono 1 level control

HMA-6500 Power Amplifier

Price \$350
Dimensions 6H x 17 $\frac{1}{2}$ W x 12 1/16D
Weight 20 lbs. 11 oz.
Power 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
Response 5 Hz to 100 kHz, +0, -1 dB
S/N 115 dB
Features Power MOSFET output devices; power meters

HA-4500 Integrated Amplifier

Price \$249.95
Dimensions 4 $\frac{3}{4}$ H x 17W x 10 $\frac{1}{2}$ D
Weight 16 lbs. 5 oz.
Power 40 watts (16 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
Response 10 Hz to 40 kHz, +0, -1 dB
Sensitivity 2.5 mV (phono)
Overload 250 mV (phono)
S/N 75 dB (phono)
Bass control ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
Features Infrasonic filter (12 dB/octave below 20 Hz); LED power indicators

Models also available

HMA-7500 Power Amplifier, \$500;
 HCA-7500 Preamp, \$300; HA-3500 Integrated Amplifier, \$199.95; HCA-6500 Preamp, \$199.95

JANIS

Janis Audio Associates
 2889 Roebing Ave.
 Bronx, N.Y. 10461

Interphase-1A

Price \$495
Dimensions 5H x 10 $\frac{1}{2}$ W x 14D
Weight 20 lbs.
Power 60 watts (17.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
Response 3 Hz
S/N 90 dB (unweighted)
Features Internal crossover for subwoofers; 100 Hz, 18 dB per octave; continuous variable phase of output, comparator feature for balancing subwoofers; upper limit of response controlled by crossover

JSH

JSH Laboratories, Inc.
 1802 West Grant Road
 Suite #114
 Tucson, Ariz. 85705

C Integrated Amplifier

Price \$795
Dimensions 2 $\frac{1}{4}$ H x 18 $\frac{1}{2}$ W x 8 $\frac{1}{2}$ D
Weight 10 lbs.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Power 50 watts (17 dBW) continuous
IM 0.01%
Response 15 Hz to 150 kHz, +0, -3 dB
Sensitivity 7/26 mV (phono; dual gain); 630 mV (high level)
Overload 30/110 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Low filter 12 dB/octave below 15 Hz
Features Two-way tape dubbing; includes moving-coil cartridge amp

A Line Preamp/Equalizer

Price \$545
Dimensions 1 $\frac{3}{4}$ H x 12 $\frac{3}{4}$ W x 6 $\frac{1}{2}$ D
Weight 7 lbs.
Inputs 2 tape; 3 line
Power 50 watts (17 dBW) continuous
Response 15 Hz to 150 kHz, +0, -3 dB
Sensitivity 630 mV (high level)
Features Two-way tape dubbing; contains 3-band equalizer with tunable parameters; companion unit to Model T

T Phono Preamp

Price \$435
Dimensions 1 $\frac{3}{4}$ H x 12 $\frac{3}{4}$ W x 6 $\frac{1}{2}$ D
Weight 6 lbs.
Inputs 2 (1 moving-magnet; 1 moving-coil) aux
IM 0.01%
Sensitivity 7/26 mV (MM); 0.15/0.57 mV (MC) (phono; dual gain)
Overload 30/110 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Features Input capacitance selection for cartridge loading; output level control

Models also available

245, \$595

JVC

U.S. JVC Corp.
 58-75 Queens Midtown
 Expressway
 Maspeth, N.Y. 11378

M-7050 Power Amplifier

Price \$1,450
Dimensions 6 5/16H x 16 9/16W x 16 5/16D
Weight 63 lbs. 1 oz.
Power 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.003% THD
IM 0.003% at 150 watts
Response DC to 300 kHz, +0, -3 dB
S/N 120 dB (IHF-A weighted)
Features Class D power supply; 12 LED peak-power indicators

EQ-7070 Preamp

Price \$950
Dimensions 2 $\frac{1}{2}$ H x 16 $\frac{1}{2}$ W x 14 $\frac{1}{2}$ D
Weight 16 lbs. 8 oz.
Inputs 5 phono; 2 tape; tuner; aux
Output 15V
THD 0.003%
Sensitivity 1.8 mV (phono); 160 mV (high level)
Overload 300 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB

A-X9 Integrated Amplifier

Price \$900
Dimensions 6 $\frac{1}{4}$ H x 17 $\frac{3}{4}$ W x 16 $\frac{1}{2}$ D
Weight 36 lbs. 8 oz.

Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Power 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.005% THD
IM 0.002% at 100 watts
Response DC to 200 kHz, +0, -3 dB
Sensitivity 2.5 mV (phono); 200 mV (high level)
Overload 350 mV (phono)
S/N 85 dB (phono); 110 dB (aux) (IHF A-weighted)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass control ± 8 dB at 100 Hz
Treble ± 8 dB at 10 kHz
Low filter 6 dB/octave below 18 Hz
Features Two-way tape dubbing; super-A amp; input for moving-coil and moving-magnet cartridges

A-MI Integrated Amplifier

Price \$600
Dimensions 3 11/16H x 9 1/16W x 10 3/16D
Weight 9 lbs. 3 oz.
Inputs 1 phono; 1 tape; 1 tuner; 1 aux
Power 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
Response DC to 70 kHz, +0, -3 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 200 mV (phono)
S/N 82 dB (phono); 105 dB (aux) (IHF A-weighted)
Phono EQ 20 Hz to 20 kHz, ± 0.3 dB
Bass control ± 8 dB at 100 Hz
Treble ± 8 dB at 10 kHz

P-3030 Preamp

Price \$440
Dimensions 2 $\frac{3}{8}$ H x 16 $\frac{1}{2}$ W x 13 $\frac{3}{4}$ D
Weight 12 lbs. 13 oz.
Inputs 3 phono; 2 tape; tuner; aux
Response 10 Hz to 40 kHz, ± 0.5 dB
Output 1V
THD 0.005%
Sensitivity 2 mV (phono); 140 mV (high level)
Overload 300 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.3 dB
Bass control ± 8 dB at 100 Hz
Treble ± 8 dB at 10 kHz
Low filter 6 dB/octave below 18 Hz
Features Moving-coil phono input

JA-S44 Integrated Amplifier

Price \$340
Dimensions 6H x 16 $\frac{3}{4}$ W x 12 $\frac{1}{2}$ D
Weight 22 lbs.
Inputs 2 tape; tuner; aux
Power 45 watts (16.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.01% at 45 watts
Response 5 Hz to 100 kHz, +0, -2 dB
Sensitivity 2.5 mV (phono); 160 mV (high level)
Overload 200 mV (phono)
S/N 80 dB (phono); 100 dB (aux) (IHF A-weighted)
Phono EQ 20 Hz to 20 kHz, ± 0.3 dB
Low filter 6 dB/octave below 18 Hz
Features Two-way tape dubbing; 2 power meters; 10-position SEA equalizer

A-S3 Integrated Amplifier

Price \$150
Dimensions 3 $\frac{1}{2}$ H x 16 9/16W x 11 1/32D
Weight 11 lbs. 3 oz.
Inputs 1 phono; 1 tape; 1 tuner
Power 20 watts (13 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.08% THD
IM 0.08% at 20 watts
Response 20 Hz to 40 kHz, +1, -2 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)



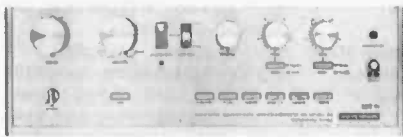
GLI 1010



JVC M-7050



Kenwood L-07C MkII



Harman Kardon hk-505



Hitachi HCA 830D



Metron M-200

Overload 120 mV (phono)
 S/N 75 dB (phono); 90 dB (aux) (IHF A-weighted)
 Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
 Bass control ± 8 dB at 100 Hz
 Treble ± 8 dB at 10 kHz

Models also available

M-7070 Mono Power Amplifier, \$1,600; JP-S7 Preamplifier, \$750; M-3030 Power Amplifier, \$730; A-X5 Integrated Amplifier, \$450; JA-S77 Integrated Amplifier, \$430; JA-S55 Integrated Amplifier, \$340; JA-S22 Integrated Amplifier, \$240; A-S5 Integrated Amplifier, \$180

KENWOOD

Kenwood Electronics, Inc.
 75 Seaview Drive
 Secaucus, N.J. 07094

KA-907 Integrated Amplifier

Price \$1,000
 Dimensions 6 11/32H x 18 1/8W x 18 7/32D
 Weight 56 lbs. 14 oz.
 Inputs 3 phono; 2 tape; 1 tuner; 1 aux
 Power 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD

IM 0.0045% at 150 watts
 Response DC to 400 kHz, -3 dB
 Sensitivity 2.5 mV (phono); 200 mV (high level)

Overload 230 mV (phono)
 S/N 96 dB (phono); 105 dB (aux)
 Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
 Bass control ± 7.5 dB at 150 Hz
 Treble ± 7.5 dB at 3 kHz
 High filter 12 dB/octave above 8 kHz
 Low filter 6 dB/octave below 18 Hz
 Features Two-way tape dubbing; separable power and preamp; high-speed DC amp; dual power supply

L-07C Mark Two Preamplifier

Price \$900
 Dimensions 3 15/16H x 18 19/32W x 13 3/8D
 Weight 20 lbs.
 Inputs 2 phono; 2 tape; 1 tuner; 1 aux
 Sensitivity 2.5 mV (phono); 140 mV (high level)

Overload 450 mV (phono)
 Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
 Bass control ± 7.5 dB at 100 Hz
 Treble ± 7.5 dB at 10 kHz
 Low filter 12 dB/octave below 18 Hz
 Features Two-way dubbing

L-07M Mark Two Mono Power Amplifier

Price \$600
 Dimensions 6 3/32H x 7 7/8W x 15 11/32D
 Weight 30 lbs. 11 oz.
 Power 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.003% THD

IM 0.003% at 150 watts
 Response DC to 600 kHz, ± 3 dB
 Features High-speed circuitry

KA-701 Integrated Amplifier

Price \$499
 Dimensions 6 6/32H x 17 10/32W x 16 6/32D
 Weight 29 lbs. 12 oz.
 Inputs 2 phono; 2 tape; 1 tuner; 1 aux
 Power 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.2% THD

IM 0.003% at 80 watts
 Response DC to 400 kHz, ± 3 dB
 Sensitivity 2.5 mV (phono); 200 mV (high level)

Overload 220 mV (phono)
 S/N 89 dB (phono); 110 dB (aux)
 Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
 Bass control ± 7.5 dB at 200 Hz
 Treble ± 7.5 dB at 3 kHz
 High filter 6 dB/octave above 8 kHz
 Features One-way tape dubbing; high-speed design; dual power supply

KA-601 Integrated Amplifier

Price \$399
 Dimensions 6 6/32H x 17 10/32W x 16 6/32D
 Weight 26 lbs. 6 oz.
 Inputs 2 phono; 2 tape; 1 tuner; 1 aux
 Power 60 watts (17.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD

IM 0.004% at 60 watts
 Response DC to 400 kHz, ± 3 dB
 Sensitivity 2.5 mV (phono); 200 mV (high level)

Overload 220 mV (phono)
 S/N 93 dB (phono); 105 dB (aux)
 Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
 Bass control ± 7.5 dB at 100 Hz
 Treble ± 7.5 dB at 10 kHz
 Features One-way tape dubbing; high-speed design; dual power supply

KA-305 Integrated Amplifier

Price \$199
 Dimensions 5 15/32H x 15 6/8W x 11 25/32D
 Weight 15 lbs.
 Inputs 1 phono; 1 tape; 1 tuner; 1 mic; 1 aux

Power 40 watts (16 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.08% THD

IM 0.004% at 40 watts
 Response 3 Hz to 100 kHz, ± 3 dB
 Overload 260 mV (phono)
 S/N 83 dB (phono); 105 dB (aux)
 Phono EQ 20 Hz to 20 kHz, ± 0.4 dB
 Bass control ± 10 dB at 100 Hz
 Treble ± 10 dB at 10 kHz
 Features Mic mixing

Models also available

L-09M Mono Power Amplifier, \$700; KA-801 Integrated Amplifier, \$699; L-05M Mark Two Power Amplifier, \$425; KA-405 Integrated Amplifier, \$299; 600 Integrated Amplifier, \$550; KA-3700 Integrated Amplifier, \$159

LUXMAN

Lux Audio of America, Ltd.
 160 Dupont St.
 Plainview, N.Y. 11803

5M-21 Laboratory Reference Series Power Amplifier

Price \$1,295
 Dimensions 5 3/4H x 17 3/4W x 16D
 Weight 42 lbs.
 Power 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.008% THD

IM 0.008% at 100 watts
 Response DC to 100 kHz, +0, -1 dB
 S/N 120 dB (IHF A-weighted)
 Features Direct-current, direct-coupled design; illuminated power meters; separate power supplies for each channel; amplifier- and speaker-protection circuitry; terminals for electrostatic speakers; available without meters as 5M-20 at \$1,095

5L-15 Laboratory Reference Series Integrated Amplifier

Price \$995
 Dimensions 5 3/4H x 17 3/4 W x 16D
 Weight 29 lbs. 5 oz.
 Inputs Phono; 2 tape; tuner; 2 aux
 Power 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD

IM 0.02% at 80 watts
 Response DC to 100 kHz, ± 1 dB
 Sensitivity 3 mV (phono); 300 mV (high level)
 S/N 80 dB re 2.5 mV (phono); 100 dB (aux) (IHF A-weighted)

Phono EQ ± 0.2 dB (RIAA)
 Low filter Active below 17 Hz (infrasonic)

Features Two-way tape dubbing; separable power amp and preamp; volume attenuator for instant muting; terminals for electrostatic speakers; illuminated power meters with adjustable sensitivity; direct-current, direct-coupled design

5C-50 Laboratory Reference Series Preamplifier

Price \$895
Dimensions 4H x 17 $\frac{3}{4}$ W x 16D
Weight 18 lbs.
Inputs 3 phono; 2 tape; tuner; aux
Response 0.5 Hz to 200 kHz, +0, -0.5 dB
Output 1V (rated) (18V max)
THD 0.005%
IM 0.002%
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 300 mV (phono)
Phono EQ ± 0.2 dB (RIAA)
High filter 12 dB/octave above 12/18 kHz (switchable); infrasonic notch with sharp-to-broad notch selector
Low filter Below 7 Hz or 4 Hz
Features Two-way tape for dubbing; Lux linear equalizer for adjustments of phono response; volume attenuator for instant muting; phono inputs for moving-coil cartridge; direct-current, direct-coupled design

L-10 Integrated Amplifier

Price \$795
Dimensions 78mm H x 438mm W x 363mm D
Weight 23 lbs. 1 oz.
Inputs 1 phono; 2 tape; 1 tuner; 2 aux
Power 55 watts (17.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.015% THD
IM 0.015% at 55 watts
Response DC to 100 kHz, -1 dB
Sensitivity 3 mV (phono); 300 mV (high level)
S/N 90 dB (phono); 100 dB (aux) (A-weighted)

Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Low filter 20 Hz; infrasonic filter below 10 Hz
Features One-way tape dubbing; two-way dubbing; separable power and preamp; REC OFF position on tape selector

L-3 Integrated Amplifier

Price \$395
Inputs Phono; 2 tape; tuner; aux
Power 35 watts (15.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.04% THD
IM 0.08%
Response 30 Hz to 18 kHz, ± 0.5 dB (phono); 15 Hz to 60 kHz, ± 1 dB (high level)
Sensitivity 2.5 mV (phono); 150 mV (high level)
S/N 87 dB (phono) (A-weighted re 10 mV)

Bass control ± 11 dB
Treble ± 11 dB
High filter Above 7 kHz
Low filter Below 25 Hz

Models also available

L-11 Integrated Amplifier, \$895; M-12 Power Amplifier, \$795; B-12 Mono Power Amplifier, \$645; C-12 Preamplifier, \$645; L-5 Integrated Amplifier, \$595

MARANTZ
Marantz Co., Inc.
20525 Nordhoff St.
Chatsworth, Calif. 91311

A Note on Prices

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

PM-700 Integrated Amplifier/Equalizer

Price \$420
Dimensions 5 $\frac{3}{4}$ H x 16 $\frac{3}{4}$ W x 13D
Weight 20 lbs. 14 oz.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Power 87 watts (19.5 dBW) continuous into 4 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 87 watts
Response 10 Hz to 70 kHz, ± 1.0 dB
Sensitivity 2.8 mV (phono); 150 mV (high level)

Overload 220 mV (phono)
S/N 92 dB (phono); 98 dB (aux) (IHF A-weighted re 87 watts)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
High filter 6 dB/octave above 9 kHz
Low filter 6 dB/octave below 20 Hz
Features One-way tape dubbing; two-way tape dubbing; dual LED power meters; dual 5-band graphic equalizer; true power DC amplifier; moving-coil cartridge head amp; independent record mode selector; detented volume control

PM-300 Integrated Amplifier/Equalizer

Price \$225
Dimensions 5 $\frac{3}{4}$ H x 16 $\frac{3}{4}$ W x 9 9/16D
Weight 13 lbs. 12 oz.
Inputs 1 phono; 1 tape; 1 tuner; 1 aux
Power 38 watts (15.75 dBW) continuous into 4 ohms from 20 Hz to 20 kHz at no more than 0.08% THD
IM 0.08% at 38 watts
Response 15 Hz to 50 kHz, ± 0.1 dB
Sensitivity 2.8 mV (phono); 150 mV (high level)

Overload 130 mV (phono)
S/N 87 dB (phono); 98 dB (aux) (A-weighted re 38 watts)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass control ± 10 dB at 100 Hz
Midrange ± 6 dB at 0.7 kHz
Treble ± 10 dB at 10 kHz
Low filter 6 dB/octave below 20 Hz
Features One-way tape dubbing; dual power meters; true power direct coupled; detented volume control; loudness control

Models also available

PM-500 Integrated Amplifier/Equalizer, \$330

McINTOSH
McIntosh Laboratory, Inc.
2 Chambers St.
Binghamton, N.Y. 13903

C-32 Preamplifier

Price \$1,499
Dimensions 5H x 16W x 13D
Weight 27 lbs.
Inputs 2 phono; 3 tape; tuner; aux
Response 20 Hz to 20 kHz, +0, -0.25 dB (10 Hz to 100 kHz, ± 0.5 dB)
Output 2.5V (10V max)
THD 0.05%
IM 0.05%
Sensitivity 2 mV (phono); 250 mV (high level)
Overload 100 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.25 dB
High filter 12 dB/octave above 7 kHz
Low filter 12 dB/octave below 50 Hz
Features Three-way tape dubbing; separate listen and record channels; volume expander; 12-watt-per-channel headphone-monitor amplifier; precision-tracking step attenuator volume control; loudness contour; 5-band equalizer (± 12 dB at 30 Hz, 150 Hz, 500 Hz, 1.5 kHz, 10 kHz); electronic switching; Panloc mounting; turntable actuated system on/off power control circuit

MA-6200 Integrated Amplifier

Price \$1,199
Dimensions 5 7/16H x 16W x 13D
Weight 30 lbs.
Inputs 2 phono; 1 tuner; 2 aux
Power 75 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% max, 250 mW to rated power

Response 20 Hz to 20 kHz, +0, -0.5 dB
Sensitivity 2 mV (phono); 250 mV (high level)
S/N 85 dB (phono); 100 dB (aux) (A-weighted re 75 watts)

Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Features Two-way tape dubbing; separable power and preamp; Power-Guard clipping-prevention circuit; output limit indicators; heavy duty, time-controlled speaker relay; turntable-actuated system on/off power control circuit; 5-band equalizer (± 12 dB at 30 Hz, 150 Hz, 500 Hz, 1.5 kHz, 10 kHz)

MC-2200 Power Amplifier

Price \$1,099
Dimensions 7H x 16W x 14 $\frac{5}{8}$ D
Weight 73 lbs.
Power 200 watts (23 dBW) continuous into 1, 2, 4, 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD

IM 0.1% max, 250 mW to rated power
Response 20 Hz to 20 kHz, +0, -0.25 dB (10 Hz to 100 kHz, +0, -3 dB)
S/N 95 dB (unweighted re 200 watts)
Features Full power output for 1, 2, 4, 8 ohms; switchable for 240-watt mono operation; Power-Guard clipping-prevention circuit; output-limit indicators; relay rack-mounting

C-29 Professional Preamplifier

Price \$949
Dimensions 5 7/16H x 16W x 13D
Weight 19 lbs.
Inputs 2 phono; 2 tape; 1 tuner; 1 mic; 2 aux
Response 20 Hz to 20 kHz, +0, -0.5 dB
Output 2.5V
THD 0.02%
IM 0.02%
Sensitivity 2.2 mV (phono); 0.25 mV (high level)

Overload 100 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass control ± 20 dB at 20 Hz
Treble ± 18 dB at 20 kHz
High filter 12 dB/octave above 7 kHz
Low filter 12 dB/octave below 50 Hz
Features Two-way tape dubbing; low-noise phono-amp; loudness contour; precision-step attenuator volume control; speaker switching; switch-type tone controls; Panloc mounting; turntable actuated system on/off power control circuit

MC-502 Power Amplifier

Price \$699
Dimensions 3 $\frac{5}{8}$ H x 16W x 14 $\frac{1}{2}$ D
Weight 27 lbs.
Power 75 watts (19 dBW) continuous into 4 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.02% max, 250 mW to rated power
Response 20 Hz to 20 kHz, +0, -0.25 dB
S/N 95 dB (unweighted re 75 watts)
Features Power-Guard clipping-prevention circuit; output limit indicators; switchable for 150-watt mono operation; speaker on/off switch

Models also available

MC-2300 Power Amplifier, \$1,799;
 MC-2205 Power Amplifier, \$1,499;
 MC-2125 Power Amplifier, \$1,099;
 MC-2120 Power Amplifier, \$899;
 C-27 Preamplifier, \$749

MCS® SERIES
J.C. Penney
 1301 Ave. of the Americas
 New York, N.Y. 10019

3865 Integrated Amplifier

Price \$400
Dimensions 5½H x 16 3/32W x 11 13/16D
Weight 41 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 1 mic; 1 aux
Power 65 watts (18 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.02% at 65 watts
Response 20 Hz to 20 kHz, ±0.5 dB
Sensitivity 2.5 mV (phono)
Overload 360 mV (phono)
S/N 86 dB (phono), 100 dB (aux) (A-weighted re 1 watt)
Phono EQ 30 Hz to 15 kHz, ±0.5 dB
Bass control ±9 dB
Treble ±9 dB
Features One-way tape dubbing, two-way tape dubbing; separable power and preamp; tape monitor; dual power supply; power meters calibrated for 1, 3, and 65 watts; removable handles

3835 Integrated Amplifier

Price \$200
Dimensions 5½H x 16 9/16W x 11 3/16D
Weight 24 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 1 mic; 1 aux
Power 35 watts (15.5 dBW) continuous into 8 ohms from 10 Hz to 30 kHz at no more than 0.08% THD
IM 0.08% at 35 watts
Response 20 Hz to 20 kHz, ±5 dB
Sensitivity 2.5 mV (phono)
Overload 170 mV (phono)
S/N 75 dB (phono)
Phono EQ 30 Hz to 15 kHz, ±1 dB
Bass control ±8 dB
Features One-way tape dubbing; two-way tape dubbing; separable power and preamp

Models also available

3845 Integrated Amplifier, \$240

MEGA

Mega Electronics, Inc.
 12737 Garvey Ave.
 Baldwin Park, Calif. 91706

Add-On Power Amplifier

Price \$499
Dimensions 4¼H x 19W x 17D
Power 150 watts (22 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 150 watts
S/N 120 dB
Features Can be used with inexpensive receivers to increase power output

MERIDIAN

Anglo-American Audio
 P.O. Box 653
 Buffalo, N.Y. 14240

103D Power Amplifier

Price \$699
Dimensions 4H x 11W x 12D

Weight 26 lbs.
Power 45 watts (16.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 35 watts
Response 20 Hz to 20 kHz
S/N 90 dB (CUR-weighted)
Features Separate power supplies, one for each channel

101 Preamplifier

Price \$465
Dimensions 2H x 5½W x 12½D
Weight 4 lbs.
Inputs 1 phono; 1 tape; 1 tuner
Response 5 Hz to 50 kHz, +0.5 dB
Output 775 mV
THD 0.01%
IM 0.01%
Sensitivity 1.4 mV (phono); 450 mV (high level)
Overload 160 mV (phono)
Phono EQ 20 Hz to 20 kHz, +0.5 dB
Features One-way tape dubbing; choice of input modules to optimize phono cartridge response

Models also available

103 Power Amplifier, \$485; 105 Power Amplifier, \$449

METEOR

Hammond Industries, Inc.
 155 Michael Drive
 Syosset, N.Y. 11791

Powermaster 90 Power Amplifier

Price \$499
Dimensions 5¼H x 19W x 13½D
Weight 20 lbs.
Power 85 watts (19.25 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
Response 20 Hz to 20 kHz, ±0.5 dB
S/N 85 dB (unweighted re 85 watts)
Features Rack-mount style with handles

Powermaster 75 Power Amplifier

Price \$449
Dimensions 7H x 9¾W x 12½D
Weight 20 lbs.
Power 85 watts (19.25 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
Response 20 Hz to 20 kHz, ±0.5 dB
S/N 85 dB (unweighted re 85 watts)
Features Portable format; front panel gain and tone controls; tone defeat switch, meters

METRON

Cerwin-Vega, Inc.
 12250 Montague St.
 Arleta, Calif. 91331

A-4000 Power Amplifier

Price \$1,600
Dimensions 7½H x 19W x 18½D
Weight 80 lbs.
Power 350 watts (25.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.020% at 350 watts
Response 5 Hz to 100 kHz, -1, +0 dB at 1 watt
S/N 110 dB (unweighted)

Features Sample-and-hold peak-reading meters; step attenuator controls; forced-air cooling

PR-1 Preamplifier

Price \$500
Dimensions 2¼H x 19W x 14D
Weight 15 lbs.
Inputs 2 phono; 2 tape; tuner; mic; aux
Response 5 Hz to 200 kHz, +0, -3 dB
Output 2V, outputs 1 and 2; 3V, output 3
THD 0.005%
IM 0.005%
Sensitivity 2 mV (phono); 250 mV (high level)
Overload 230 mV (phono)
Phono EQ 30 Hz to 15 kHz, ±0.2 dB
Bass control +10 dB at 50 Hz
Treble ±10 dB at 10 kHz
Low filter 18 dB/octave below 20 Hz
Features Precision-step attenuators on all controls; complete two-way tape dubbing capability; muting switch

Models also available

M-200 Power Amplifier, \$600

MITSUBISHI

Melco Sales, Inc.
 3030 E. Victoria
 Compton, Calif. 90221

DA-A15DC Power Amplifier

Price \$700
Dimensions 6¾H x 16¾W x 11¼D
Weight 39 lbs.
Power 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD
IM 0.008% at 150 watts
Response 20 Hz to 20 kHz, ±0.1 dB
S/N 123 dB (A-weighted re 150 watts)
Features Dual monaural construction; completely separate right- and left-channel power amp will dock with preamp to provide integrated-amp configuration; DC amplifier

M-A01 Micro Power Amplifier

Price \$500
Dimensions 5½H x 10¾W x 9¾D
Weight 22 lbs.
Power 70 watts (18.5 dBW) continuous into 8 ohms from 15 Hz to 20 kHz at no more than 0.01% THD
IM 0.008% at 70 watts
Response 20 Hz to 20 kHz, ±0.1 dB
S/N 123 dB (A-weighted re 70 watts)
Features Micro-size component; peak-level LED; DC amplifier

M-PO1 Micro Preamplifier

Price \$370
Dimensions 2¾H x 10¾W x 9¾D
Weight 7 lbs.
Inputs 2 phono; tape; tuner; aux
Response 10 Hz to 100 kHz, +0 dB
Output 1V (rated); 18V (max)
THD 0.002%
IM 0.002%
Sensitivity 2.3 mV (phono); 150 mV (high level)
Overload 290 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass control ±8 dB at 100 Hz
Treble ±8 dB at 10 kHz
Low filter 6 dB/octave below 18 Hz
Features Two-way tape dubbing; micro-size component; built-in moving-coil head amp; digital tone control with LED indication

DA-P10 Preamplifier

Price \$330
Dimensions 6¼H x 16¼W x 8D
Weight 13 lbs.
Inputs 2 phono; tape; tuner; aux
Response 10 Hz to 70 kHz, +0, -0.5 dB
Output 1V (rated); 9V (max)
THD 0.02%
IM 0.02%
Sensitivity 2.2 mV (phono); 150 mV (high level)
Overload 270 mV (phono)
Phono EQ 30 Hz to 15 kHz, ±0.2 dB
Bass control ±10 dB at 100 Hz
Treble ±10 dB at 10 kHz
Low filter 12 dB/octave below 18 Hz
Features Off/A/B speaker switching; headphone output; separate level controls for each channel; professional stepped attenuator; preamp can be docked to power amp to provide integrated-amp configuration; dual monaural construction

Models also available

DA-A10DC Power Amplifier, \$470;
DA-P20 Preamplifier, \$30; DA-A7DC Power Amplifier, \$330

NAD

NAD (USA), Inc.
Mackintosh Lane
P.O. Box 529
Lincoln, Mass. 01773

NAD-3080 Integrated Amplifier

Price \$485
Dimensions 5½H x 19 1/3W x 15 3/5D
Weight 35 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 1 mic; 1 aux
Power 90 watts (19.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% at 90 watts
Response 5 Hz to 50 kHz, +0, -3 dB
Sensitivity 0.5 mV (phono); 30 mV (high level) (IHF A-standard)
Overload 200 mV (phono) (at 1 kHz)
S/N 82 dB (phono); 80 dB (aux) (IHF A-weighted)
Phono EQ 20 Hz to 20 kHz, ±0.3 dB
Bass control ±11 or 13 dB at 50 Hz
Treble ±6 or 9 dB at 10 kHz
High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 20 Hz
Features Two-way tape dubbing; separable power and preamp; Holman-style preamp; independent selection of bass and treble turnover frequencies; output relay for speaker protection; infrasonic filter; stability down to 2 ohms

NAD-3045 Integrated Amplifier

Price \$315
Dimensions 5½H x 17 7/10W x 15 3/5D
Weight 26 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 1 aux
Power 45 watts (16.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.09% at 45 watts
Response 5 Hz to 50 kHz, +0, -3 dB
Sensitivity 0.4 mV (phono); -30 mV (high level) (IHF A standard)
Overload 200 mV (phono) (at 1 kHz)
S/N 80 dB (phono); 80 dB (aux) (IHF A-weighted)
Phono EQ 20 Hz to 20 kHz, ±0.3 dB
Bass control ±10 dB at 50 Hz
Treble ±10 dB at 10 kHz
High filter 6 dB/octave above 7 kHz
Low filter 12 dB/octave below 20 Hz

Features One-way tape dubbing; separable power and preamp; Holman-style preamp; IHF dynamic power in excess of 100 watts per channel at 4 ohms; infrasonic filter

Models also available

NAD-3060 Integrated Amplifier, \$410; NAD-3030 Integrated Amplifier, \$230; NAD-3020 Integrated Amplifier, \$175

NAGRA

Nagra Magnetic Recorders, Inc.
19 W. 44th St.
New York, N.Y. 10036

DSM Portable Power Amplifier

Price \$1,297
Dimensions 9½H x 10½W x 5¼D
Weight 14 lbs.
Power 15 watts (11.75 dBW) continuous into 8 ohms from 60 Hz to 16 kHz at no more than 0.3% THD
Response 60 Hz to 20 kHz, +0, -3 dB

NAIM AUDIO

Audiophile Systems
5750 Rymark Court
Indianapolis, Ind. 46250

NAP-160 Power Amplifier

Price \$1,200
Dimensions 5H x 17W x 12D
Weight 20 lbs.
Power 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.02% at 0.1 to 50 watts
Response 5 Hz to 40 kHz, ±3 dB
Features Will not limit slew rate between 5 Hz and 40 kHz; able to drive reactive loads from ±90° at no appreciable change in distortion

NAC-12 Preamplifier

Price \$700
Dimensions 3H x 5W x 12D
Weight 5 lbs.
Inputs Phono; tape; tuner
Response 20 Hz to 20 kHz, ±0.5 dB
THD 0.02%
IM 0.02%
Sensitivity 0.1 mV (phono); 75 mV (high level)
Overload 10 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.5 dB

NAC-42 Preamplifier

Price \$440
Dimensions 3H x 8W x 11D
Weight 6 lbs.
Inputs 1 phono; 1 tape; 1 tuner
Response 20 Hz to 20 kHz, ±0.5 dB
THD 0.02%
IM 0.02%
Sensitivity 2.0 mV (phono); 75 mV (high level)
Overload 200 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.5 dB

PNAG Moving-Coil Preamplifier

Price \$300
Dimensions 2H x 5W x 3D
Weight 3 lbs.
Inputs Phono
Response 20 Hz to 20 kHz, ±0.5 dB
Output 2V
THD 0.02%
IM 0.02%

Sensitivity 0.1 mV (phono)
Overload 10 mV (phono)

Models also available

NAP-250 Power Amplifier, \$2,000;
NAC-32, \$920; NAP-110 Power Amplifier, \$650

NAKAMICHI

Nakamichi U.S.A. Corp.
1101 Colorado Ave.
Santa Monica, Calif. 90401

620 Power Amplifier

Price \$740
Dimensions 7½H x 16W x 10D
Weight 28 lbs.
Power 100 watts (20 dBW) continuous into 8 ohms from 5 Hz to 20 kHz at no more than 0.01% THD
IM 0.02% at 100 watts
Response 5 Hz to 100 kHz, ±0.5 dB
S/N 120 dB (IHF A-weighted re 100 watts)
Features Peak power indicators; complete mirror complementary-symmetry output; toroidal core power transformer; 350 watts/8 ohms monaural output with external Nakamichi bridging adapter

610 Preamplifier

Price \$660 (black, \$680)
Dimensions 7½H x 16W x 10D
Weight 16 lbs.
Inputs 2 phono; 3 tape; tuner; 5 mic; aux
Response 20 Hz to 100 kHz, ±0.75 dB
Output 5V at clipping
THD 0.005%
IM 0.005%
Sensitivity 1 mV (phono); 75 mV (high level)
Overload 250 mV (phono)
Phono EQ 30 Hz to 15 kHz, ±0.3 dB
Features Two way tape dubbing; 5-to-2 mixing from any input; built-in 7-frequency test oscillator and pink-noise generator; phase-check and invert circuits; 50 dB-range peak-level meters; speaker switching with optional RM-610 remote switching unit

410 Preamplifier

Price \$370
Dimensions 3H x 16W x 9D
Weight 9 lbs.
Inputs Phono; tape; tuner; 2 aux
Response 20 Hz to 50 kHz, ±0.75 dB
Output 5V at clipping
THD 0.003%
IM 0.003%
Sensitivity 1/2/5 mV (phono) (switched); 100 mV (high level)
Overload 250 mV (phono)
Phono EQ 30 Hz to 15 kHz, ±0.3 dB
Bass control ±9 dB at 20 Hz
Treble ±9 dB at 20 kHz
Features One-way tape dubbing; variable contour; stepped-attenuator volume control; fully defeatable tone controls; triple-transistor phono input with switchable active phono infrasonic filter

Models also available

420 Power Amplifier, \$390

NIKKO

Nikko Electric Corp. of America
12670 Raymer St.
Van Nuys, Calif. 91406



Mitsubishi DA-P10



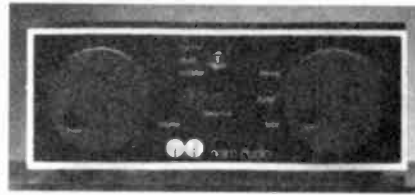
Pioneer SA-8800



NAD 3080



Onkyo A-7090



Naim



Nakamichi 610

Alpha VI Power Amplifier

Price \$1,399.95
Dimensions 7½H x 19W x 18 1/3D
Weight 62 lbs.
Power 300 watts (24.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD
IM 0.01% at 300 watts
Response 10 Hz to 40 kHz, ±3 dB
S/N 115 dB
Features DC amplifier; power meters; 2 speaker systems; 2-speed cooling fan

Beta III Preamp

Price \$419.95
Dimensions 2 3/32H x 19W x 13D
Weight 13 lbs.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Response 10 Hz to 50 kHz, ±0.5 dB
Output 1V
THD 0.005%
IM 0.005%
Sensitivity 2 mV (phono); 110 mV (high level)
Overload 350 mV (phono)
Phono EQ 30 Hz to 15 kHz, ±0.2 dB
Bass control ±10 dB at 50 Hz
Treble ±10 dB at 20 kHz
Low filter 6 dB/octave below 40 Hz
Features Two-way tape dubbing; infrasonic filter; PHONO 2 level control; selectable phono impedance

NA-890 Integrated Amplifier

Price \$349.95
Dimensions 5½H x 16½W x 13 3/16D
Weight 24 lbs. 3 oz.
Inputs 1 phono; 2 tape; 1 tuner; 1 aux
Power 70 watts (18.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.04% THD
IM 0.04% at 70 watts
Response 10 Hz to 50 kHz, ±0.2 dB
Sensitivity 2.3 mV (phono); 150 mV (high level)
Overload 220 mV (phono)
S/N 85 dB (phono); 100 dB (aux)
Phono EQ 30 Hz to 15 kHz, ±0.2 dB
Bass control ±10 dB at 70 Hz
Treble ±10 dB at 10 kHz
High filter 6 dB/octave above 7 kHz
Low filter 6 dB/octave below 20 kHz
Features Two-way tape dubbing; power meters; rack-mount adaptable; tone defeat switch

Beta II Preamp

Price \$239.95
Dimensions 2 3/32H x 18½W x 10D
Weight 9 lbs. 14 oz.
Inputs 2 phono; 2 tape; tuner; aux
Response 10 Hz to 100 kHz, +0, -1 dB
Output 1V
THD 0.007%

IM 0.007%
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 250 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass control ±10 dB at 70 Hz
Treble ±10 dB at 10 kHz
Low filter 6 dB/octave below 15 Hz
Features Two-way tape dubbing; detent-type dB gain control; phono-input selector switch; audio muting (-20 dB) switch

NA-590 Integrated Amplifier

Price \$209.95
Dimensions 3¾H x 16½W x 14½D
Weight 16 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 1 aux
Power 35 watts (15.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 35 watts
Response 10 Hz to 50 kHz, ±0.5 dB
Sensitivity 2.3 mV (phono); 150 mV (high level)
Overload 130 mV (phono)
S/N 80 dB (phono); 90 dB (aux)
Phono EQ 30 Hz to 15 kHz, ±1 dB
Bass control ±10 dB at 70 Hz
Treble ±10 dB at 10 kHz
Low filter 6 dB/octave below 20 Hz
Features Slimline; rack-mount adaptable

Models also available

Alpha III Power Amplifier, \$539.95;
 Alpha II Power Amplifier, \$479.95;
 NA-790 Integrated Amplifier, \$280;
 NA-690 Integrated Amplifier, \$249.95

NYTECH AUDIO LTD. Import Audio Ltd. 13430 Clayton Road St. Louis, Mo. 63131

CPA-602 Power Amplifier

Price \$600
Dimensions 3H x 8¼W x 13¾D
Weight 11 lbs.
Power 50 watts (17 dBW) continuous into 8 ohms at no more than 0.03% THD
S/N 90 dB
Features Compact design

ONKYO

Onkyo U.S.A. Corp.
 42-07 20th Ave.
 Long Island City, N.Y. 11105

A-7090 Integrated Amplifier

Price \$699.95
Dimensions 6½H x 16½W x 16 3/16D
Weight 39 lbs. 9 oz.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Power 110 watts (20.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.018% THD
IM 0.018% at 110 watts
Response 5 Hz to 80 kHz, ±1 dB
Sensitivity 2.5 mV (phono)
Overload 250 mV (phono)
S/N 78 dB (phono); 90 dB (aux)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass control ±10 dB at 100/400 Hz
Treble ±10 dB at 2/10 kHz
High filter 12 dB/octave above 6 kHz
Low filter 12 dB/octave below 15 Hz
Features Two-way tape dubbing; super servo; moving-coil head amp; peak LED

M-505 Power Amplifier

Price \$580
Dimensions 6½H x 17¾W x 12¾D
Weight 37 lbs. 6 oz.
Power 105 watts (20.25 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.01% at 105 watts
Response DC to 150 kHz, +0, -1.5 dB
S/N 110 dB (A-weighted re 105 watts)
Features DC amplifier; dual line construction; 3-step low-frequency cutoff (DC, 0.15 Hz, 10 Hz); left and right level controls

P-303 Preamp

Price \$410
Dimensions 3¼H x 17¾W x 14½D
Weight 16 lbs. 8 oz.
Inputs 2 phono (1 moving-coil, 1 moving-magnet); tape; tuner
Response 3.5 Hz to 200 kHz, +0, -1.5 dB
Output 15V (max)
THD 0.006% thru MM at 3V; 0.03% thru MC at 3V
IM 0.01%
Sensitivity MC 0.1 mV (10 ohms), MM 2.5 mV, (30K, 50K, 100K—switchable); tuner 150 mV, 50K
Overload 330 mV rms, (MM) (phono) 1 kHz, 0.05% THD; 1600 mV rms, 10 kHz, 0.05% THD; phono MC 13 mV rms, 1 kHz, 0.05% THD; 63 mV rms, 10 kHz, 0.05% THD
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Features Full Class A; moving-coil head amp; buss feeder line system; dual line construction; accessory out and in

Models also available

A-7070 Integrated Amplifier, \$429.95; A-7040 Integrated Amplifier, \$299.95

OPTONICA
Optonica
10 Keystone Place
Paramus, N.J. 07652

SX-9305 Power Amplifier

Price \$850
Dimensions 2 $\frac{1}{2}$ "H x 16 $\frac{1}{2}$ "W x 17 11/16D
Weight 33 lbs.
Power 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.005% THD
IM 0.005% at 100 watts
Response DC to 100 kHz, +0, -3 dB
S/N 115 dB (A-weighted re rated power)
Features Three-color digitron audio spectrum display; 3-color digitron power output meters; 2-color LED power protection indicator; switchable output load selector

SO-9205 Preamplifier

Price \$350
Dimensions 2 $\frac{1}{2}$ "H x 16 $\frac{1}{2}$ "W x 15D
Weight 14 lbs. 13 oz.
Inputs 3 phono; 2 tape; 1 tuner; 1 aux
Response 3 Hz to 100 kHz, +0, -1.5 dB
Output 1V
THD 0.003%
IM 0.001%
Sensitivity 3 mV (phono); 150 mV (high level)
Overload 300 mV (phono); 27 mV (phono moving coil)
Phono EQ 20 Hz to 20 kHz, \pm 0.2 dB
Bass control \pm 10 dB at 100 Hz
Treble \pm 10 dB at 20 kHz
High filter 6 dB/octave above 8/15 kHz
Low filter 6 dB/octave below 15/30 Hz (infrasonic)
Features Two-way tape dubbing; slimline; built-in MC head amp; 3-position IMP selector and 3-position CAP selector for PHONO 2

SM-4305 Integrated Amplifier

Price \$300
Dimensions 2 $\frac{1}{2}$ "H x 16 $\frac{1}{2}$ "W x 15D
Weight 20 lbs. 14 oz.
Inputs 1 phono; 2 tape; 1 tuner; 1 aux
Power 40 watts (16 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.005% at 20 watts
Response 8 Hz to 70 kHz, \pm 3 dB
Sensitivity 2.9 mV (phono); 150 mV (high level)
Overload 250 mV (phono)
S/N 85 dB (phono) (re 10 mV input); 89 dB (aux) (A-weighted re rated power)
Phono EQ 20 Hz to 20 kHz, \pm 0.4 dB
Bass control \pm 10 dB at 100 Hz
Treble \pm 10 dB at 10 kHz
High filter 6 dB/octave above 7 kHz
Low filter 6 dB/octave below 30 Hz
Features Two-way tape dubbing; separable power and preamp; slimline; operation indicators; audio muting; loudness; detent volume control

Models also available

SM-7305 Integrated Amplifier, \$460; SM-3201 Integrated Amplifier, \$260

PHASE LINEAR

Phase Linear Corp.
20181 48th Ave., West
Lynnwood, Wash. 98036

D-500 Series Two Amplifier

Price \$1,499.95
Dimensions 7H x 19W x 15D
Weight 65 lbs.
Power 505 watts per channel (27 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.09% THD
IM 0.09% at 505 watts
Response 12 Hz to 40 kHz, \pm 1 dB
S/N 110 dB (A-weighted re 505 watts)
Features Input sensitivity controls; power switch; LED meters; high/low impedance switch; high-temperature LED; high-frequency limiters

4000 Series Two Preamplifier

Price \$699.95
Dimensions 7H x 19W x 10D
Weight 18 lbs.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Response 20 Hz to 20 kHz, \pm 0.4 dB
Output 2V (rms)
THD 0.04%
IM 0.04%
Sensitivity 2 mV (phono); 200 mV (high level)
Overload 100 mV (phono)
Phono EQ 20 Hz to 20 kHz, \pm 0.4 dB
Bass control \pm 13 dB at 20 Hz
Treble \pm 14 dB at 20 kHz
Low filter 24 dB/octave below 15 Hz
Features One-way tape dubbing; two-way tape dubbing; correlator noise reduction; dynamic-range expander; muting

400 Series Two Amplifier

Price \$649.95
Dimensions 7H x 19W x 20D
Weight 35 lbs.
Power 210 watts per channel (23.25 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.09% THD
IM 0.09% at 210 watts
Response 12 Hz to 40 kHz, \pm 1 dB
S/N 110 dB (A-weighted re 210 watts)
Features Input sensitivity controls; LED meters

2000 Series Two Preamplifier

Price \$299.95
Dimensions 5 $\frac{1}{2}$ "H x 19W x 6D
Weight 11 lbs.
Inputs 1 phono; 2 tape; 1 tuner; 1 aux
Response 20 Hz to 20 kHz, \pm 0.5 dB
Output 2V (rms)
THD 0.05% (20 Hz to 20 kHz)
IM 0.05%
Sensitivity 2 mV (phono); 200 mV (high level)
Overload 100 mV (phono)
Phono EQ 20 Hz to 20 kHz, \pm 0.5 dB
Bass control \pm 13 dB at 20 Hz
Treble \pm 14 dB at 20 kHz
Features One-way tape dubbing; two-way tape dubbing; ambience generator for rear channel operation

Models also available

700 Series Two Amplifier, \$949.95; 3000 Series Two Preamplifier, \$579.95; 300 Series Two Power Amplifier, \$449.95

PHILIPS
Philips High Fidelity Laboratories
P.O. Box 2218
Fort Wayne, Ind. 46801

AH-578 Power Amplifier

Price \$680

Dimensions 8H x 18W x 15D
Weight 63 lbs.
Power 210 watts (23.25 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.06% THD
IM 0.04% at 210 watts
Response 10 Hz to 30 kHz, \pm 0.15 dB
S/N 100 dB (A-weighted re 210 watts)
Features Touch switches; thermal and speaker protection; power meters; infrasonic filter; speaker selector switch; step-detent level controls; available with black front panel as AH-5781 at \$700

AH-572 Preamplifier

Price \$480
Dimensions 5 $\frac{1}{2}$ "H x 18W x 13 $\frac{1}{2}$ "D
Weight 22 lbs.
Inputs Phono; tape; tuner; aux
Response 10 Hz to 50 kHz, \pm 0.5 dB
Output 2V
THD 0.008%
IM 0.008%
Sensitivity 2 mV (phono); 200 mV (high level)
Overload 750 mV (phono)
Phono EQ 30 Hz to 15 kHz, \pm 0.25 dB
Bass control \pm 10 dB at 50 Hz
Treble \pm 10 dB at 10 kHz
High filter 12 dB/octave above 5 kHz
Low filter 12 dB/octave below 90 Hz
Features Two-way tape dubbing; touch controls; illuminated function readouts; front access tape jacks; step-detent controls; available with black front panel as AH-5721 at \$500

AH-384 Integrated Amplifier

Price \$330
Dimensions 5 $\frac{1}{2}$ "H x 19W x 14D
Inputs 2 phono; 2 tape; tuner; aux
Power 40 watts (16 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 20 watts
Response 20 Hz to 20 kHz, \pm 1 dB
Sensitivity 2 mV (phono); 150 mV (high level)
Overload 130 mV (phono)
S/N 65 dB (phono); 85 dB (aux) (A-weighted re 40 watts)
Phono EQ 30 Hz to 15 kHz, \pm 1 dB
Bass control \pm 10 dB at 100 Hz
Treble \pm 12 dB at 10 kHz
High filter 6 dB/octave above 5 kHz
Low filter 6 dB/octave below 100 Hz
Features One-way tape dubbing; audio muting; step-detent volume; power-output meters; speaker-selector switch; available with black front panel as AH-3841, \$350

Models also available

AH-388 Integrated Amplifier, \$470; AH-386 Integrated Amplifier, \$360

PICKERING

Pickering & Co., Inc.
101 Sunnyside Blvd.
Plainview, N.Y. 11803

PP-1 Phono Preamplifier

Price \$30
Dimensions 2H x 3 $\frac{1}{2}$ W x 4 $\frac{1}{2}$ D
Weight 1 lb.
Inputs Phono
Response 20 Hz to 20 kHz, \pm 1.5 dB
Output 2.5V
THD 0.25%
IM 0.20%
Sensitivity 6 mV
Overload 35 mV (1 kHz)
Phono EQ 20 Hz to 20 kHz, \pm 1.5 dB
Midrange 6 dB/octave below 100 Hz

Treble S/N better than 60 dB
Low filter 5 dB/octave below 100 Hz
Features Equivalent input noise, 109 dB; interchannel crosstalk better than 60 dB

PIONEER

U.S. Pioneer Electronics Corp.
85 Oxford Drive
Moonachie, N.J. 07074

SPEC-2 Power Amplifier

Price \$995
Dimensions 7¼H x 18¾W x 17½D
Weight 54 lbs.
Power 250 watts (24 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 250 watts
Response 5 Hz to 80 kHz, +0, -1 dB
S/N 110 dB (A-weighted re 250 watts)
Features Twin power meters; level controls; toroidal transformer; dual power supply

SPEC-1 Preamplifier

Price \$650
Dimensions 7¼H x 18¾W x 14¾D
Weight 24 lbs. 10 oz.
Inputs 2 phono; 2 tape; tuner; mic; 2 aux
Response 10 Hz to 70 kHz, ±0.5 dB
Output 2V (rated); 7V (max)
THD 0.03%
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 500 mV (phono)
Phono EQ 30 Hz to 15 kHz, ±0.2 dB
Bass control ±7.5 dB at 100 Hz (±4.5 dB at 50 Hz) (switchable)
Treble ±7.5 dB at 10 kHz (±4.5 dB at 20 kHz) (switchable)
High filter 12 dB/octave above 8/12 kHz (switchable)
Low filter 12 dB/octave below 15/30 Hz (switchable)
Features Two-way tape dubbing; mic mixing; speaker selection

SA-8800 Integrated Amplifier

Price \$550
Dimensions 6½H x 17 11/16W x 16¾D
Weight 34 lbs. 8 oz.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Power 80 watts (19 dBW) continuous into 8 ohms from 10 Hz to 20 kHz at no more than 0.005% THD
IM 0.002% at 80 watts
Response 5 Hz to 2 kHz, +0, -2 dB
Overload 250 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass control ±10 dB at 100 Hz
Treble ±10 dB at 10 kHz
High filter 6 dB/octave above 8 kHz
Low filter 6 dB/octave below 15 Hz
Features One-way tape dubbing; two-way tape dubbing; Fluoriscan power meters; non-switching amp; DC power

SA-6800 Integrated Amplifier

Price \$300
Dimensions 5 15/16H x 17¾W x 10 11/16D
Weight 18 lbs.
Inputs 1 phono; 2 tape; 1 tuner; 1 aux
Power 45 watts (16.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% at 45 watts
Response 30 Hz to 15 kHz, ±0.3 dB
Overload 180 mV (phono)
Phono EQ 30 Hz to 15 kHz, ±0.3 dB
Bass control ±7.5 dB at 100 Hz
Treble ±7.5 dB at 10 kHz
Low filter 6 dB/octave below 15 Hz

Features One-way tape dubbing; Fluoriscan power meters; DC power

Models also available

SPEC-4 Power Amplifier, \$795;
 SA-9800 Integrated Amplifier, \$750; SA-7800 Integrated Amplifier, \$450; SA-5800 Integrated Amplifier, \$200

P.S. AUDIO

P.S. Audio
1529 C. Stowell Center Plaza
Santa Maria, Calif. 93454

1 Power Amplifier

Price \$379.95
Dimensions 7H x 19W x 8D
Weight 25 lbs.
Power 80 watts (19 dBW) continuous into 8 ohms from 2 Hz to 150 kHz at no more than 0.1% THD
IM 0.1% at 80 watts
Response 2 Hz to 150 kHz, ±0.5 dB
S/N 100 dB (IHF A-weighted)
Features Dual-Dash mono power supply (patent pending); linearized amplifier

PS III Phono Preamplifier

Price \$184.95
Dimensions 4H x 8½W x 7D
Weight 5 lbs.
Inputs 1 phono
Response 0.5 Hz to 200 kHz, ±0.1 dB
Output 16V (rms)
THD 0.01%
IM 0.01%
Sensitivity 1 mV (phono)
Overload 160 mV (MM), 16 mV (MC) (phono)
Phono EQ 3 Hz to 20 kHz, ±0.1 dB
Features Passive RIAA EQ; storage linearized equalizer; switchable moving-coil input

Models also available

PS II Preamplifier, \$99.95

PYRAMID

Pyramid Industries
12970-7N Branford St.
Arleta, Calif. 91331

X-1000VL Integrated Amplifier/Equalizer

Price \$169.95
Dimensions 1¾H x 7W x 6½D
Weight 2 lbs. 13 oz.
Inputs Tuner
Power 50 watts (17 dBW) continuous into 4 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
Response 20 Hz to 20 kHz, ±3 dB
S/N 50 dB (low); 65 dB (high)
Features Ten control frequencies; input impedance: 2.5 V(low); 250 mV (high)

X-40 Integrated Amplifier

Price \$59.95
Dimensions 1½H x 5W x 3D
Weight 2 lbs. 8 oz.
Power 40 watts continuous into 4 ohms from 35 Hz to 18 kHz at no more than 0.05% THD
Response 35 Hz to 18 kHz, ±3 dB
Bass control ±12 dB at 200 Hz
Treble ±12 dB at 7.5 kHz
Features Input sensitivity lights; front-to-rear-fader control

Models also available

X-700VL Integrated Amplifier/Equalizer, \$139.95

RANDIX

Randix Industries, Ltd.
991 Broadway
Albany, N.Y. 12204

Randix Audiologic Integrated Amplifier

LX52A/LX62A

Price \$299.95 (both amp and matching tuner as a pair)
Dimensions 10¼H x 1½W x 7D
Weight 7 lbs.
Inputs 1 phono (moving-magnet); 1 tape; 1 tuner
Power 15 watts (11.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.5% THD
Response 15 Hz to 25 kHz, ±3 dB
Sensitivity 3 mV (phono); 150 mV (high level)
Overload 60 mV (phono)
S/N 70 dB (phono); 70 dB (aux) (unweighted re 15 watts)
Phono EQ 30 Hz to 15 kHz, ±3 dB
Bass control ±10 dB at 100 Hz
Treble ±10 dB at 10 kHz
Features Single tape in/out loop; loudness; protection fuses

Models also available

Randix Audiologic LX40A, \$299.95 (both amp and matching tuner as a pair)

REVOX

Studer Revox America, Inc.
1819 Broadway
Nashville, Tenn. 37203

B-750 Integrated Amplifier

Price \$999
Dimensions 6H x 17¾W x 13¾D
Weight 28 lbs. 10 oz.
Inputs 2 phono; 3 tape; tuner; 2 aux
Power 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD and at any power level
IM 0.05% at any power level
Response 20 Hz to 20 kHz, ±0.5 dB
Sensitivity 1.5 to 7 mV variable (phono)
Overload 400 mV (phono)
S/N 70 dB (phono); 90 dB (aux) (unweighted re 75 watts)
Phono EQ 20 Hz to 20 kHz, ±0.5 dB
Bass control ±8 dB at 120 Hz
Midrange ±8 dB at 3 kHz
Treble ±8 dB at 8 kHz
High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 50 Hz
Features Two-way tape dubbing; separable power amp and preamp; tone control defeats; separate power supplies; short and overload protection; turn-on delay for transient suppression.

RG DYNAMICS

RG Dynamics, Inc.
4448 W. Howard St.
Skokie, Ill. 60076

RGD-3W Preamplifier

Price \$595

Dimensions 3½H x 18W x 12D
Weight 14 lbs.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux; 1 external processor
Response 20 Hz to 20 kHz, ±0.05 dB; 0.5 Hz to 170 kHz, +3 dB
Output 7V (max at 1 kHz)
THD 0.02% at rated output, 20 Hz to 20 kHz
IM 0.02% at 60 Hz and 7 kHz, mixed 1:1 at rated output
Sensitivity 2 mV (phono); 200 mV (high level)
Overload 200 mV (phono) at 1 kHz, (sine wave)
Phono EQ 20 Hz to 20 kHz, ±0.05 dB
Bass control ±14 dB at 20 Hz
Midrange None
Treble ±14 dB at 15 kHz
High filter None
Low filter 12 dB/octave below 20 Hz
Features Two-way tape dubbing; each phono input has independently adjustable input capacity for proper matching of any cartridge; 32-step precision volume control; true center "flat" positions on tone controls; selector section provides for any combination of source and/or tape with the selected mode clearly indicated by an LED display; tone defeat switch (also available as model RGD 3B standard rack panel; \$615 model RGD 3BW 17" black panel with walnut ends)

ROGERS
Reference Monitor
International, Inc.
2330 C Camino Vida Roble
Carlsbad, Calif. 92008

A-75 Integrated Amplifier

Price \$530
Dimensions 4½H x 14¼W x 11¼D
Weight 15 lbs. 8 oz.
Inputs 1 phono; 2 tape
Power 45 watts (16.5 dBW) continuous into 8 ohms from 20 Hz to 30 kHz at no more than 0.3% THD
IM 0.08% at 40 watts
Response 20 Hz to 20 kHz, ±1 dB
Sensitivity 2.7 mV (phono); 90 mV (high level)
Overload 80 mV (phono)
S/N 70 dB (phono); 80 dB (aux) (CCIR-weighted re 45 watts)
Phono EQ 20 Hz to 20 kHz, ±1 dB
Bass control ±16 dB at 30 Hz
Treble ±16 dB at 10 kHz
High filter 0 to 20 dB/octave above 6/9 kHz (infinitely variable)
Low filter 30 dB/octave below 20 Hz
Features One-way tape dubbing; Darlington DC coupled Class AB output

ROTEL
Rotel of America, Inc.
1055 Saw Mill River Road
Ardsey, N.Y. 10502

RB-5000 Power Amplifier

Price \$2,700
Dimensions 9½H x 19½W x 17¼D
Weight 120 lbs.
Power 500 watts (27 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.009% THD
IM 0.009% at 500 watts
Response DC to 100 kHz, ±3 dB
S/N 120 dB (A-weighted re 500 watts)
Features Direct-reading power meters; LED readout in dB can be used at ¼, ½ or full power; 2 toroidal power transformers; 2 dB/step right and left level control; input off/on switch

RC-5000 Preamplifier

Price \$1,600
Dimensions 9½H x 19½W x 17¼D
Weight 33 lbs.
Inputs 3 phono; 3 tape; tuner; 2 mic; 2 aux
Response 3 Hz to 30 kHz, ±0.5 dB
Output 1V
THD 0.003%
IM 0.003%
Sensitivity 2, 4, 8 mV (phono) (switchable); 150 mV (high level)
Overload 500 mV (phono)
Phono EQ 10 Hz to 30 kHz, ±0.2 dB (RIAA)
Bass control ±10 dB at 100 Hz
Midrange ±10 dB at 5 kHz
Treble ±10 dB at 10 kHz
High filter 12 dB/octave above 7.4/2.4 kHz (switchable)
Low filter 12 dB/octave below 60/15 Hz (switchable)
Features Three-way tape dubbing; phono 1 adjustable sensitivity, impedance and gain; tape 3 input on front; phono 3 moving-coil cartridge; full 10-band octave equalizer; DC configuration

RA-2040 Integrated Amplifier

Price \$880
Dimensions 5¾H x 19¼W x 16¼D
Weight 48 lbs. 8 oz.
Inputs 3 phono; 2 tape; tuner; aux
Power 120 watts (20.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD
IM 0.01% at 120 watts
Response DC to 200 kHz, ±3 dB
Sensitivity 2 mV (phono); 150 mV (high level)
Overload 450 mV (phono)
S/N 80 dB (phono); 100 dB (aux) (A-weighted re 120 watts)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass control ±10 dB at 100 Hz
Treble ±10 dB at 10 kHz
High filter 12 dB/octave above 24 kHz
Low filter 12 dB/octave below 15 Hz
Features Two-way tape dubbing; separable power and preamp; DC amp configuration; Class AB; bar-chart LED power indicators; moving-coil head amp; variable additional capacitance and impedance on phono 1

RA-2020 Integrated Amplifier

Price \$485
Dimensions 5¾H x 19¼W x 13¼D
Weight 28 lbs. 8 oz.
Inputs 2 phono; 2 tape; tuner; aux
Power 60 watts (17.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.02% at 60 watts
Response DC to 100 kHz, ±3 dB
Sensitivity 2 mV (phono); 150 mV (high level)
Overload 200 mV (phono)
S/N 75 dB (phono); 95 dB (aux) (A-weighted re 60 watts)
Phono EQ 20 Hz to 20 kHz, ±0.3 dB
Bass control ±10 dB at 100 Hz
Treble ±10 dB at 10 kHz
High filter 12 dB/octave above 24 kHz
Low filter 12 dB/octave below 15 Hz
Features Two-way tape dubbing; separable power and preamp; DC amp configuration; bar-chart LED power indicators

RC-1000 Preamplifier/Equalizer

Price \$320
Dimensions 3 27/32H x 16 15/16W x 11 13/32D
Weight 10 lbs. 12 oz.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Response 5 Hz to 50 kHz, +0, -3 dB
Output 500 mV
THD 0.03%
IM 0.03%
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 400 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.3 dB
Bass control ±10 dB at 100 Hz
Midrange ±10 dB at 5 kHz
Treble ±10 dB at 10 kHz
Low filter 12 dB/octave below 15 Hz
Features Two-way tape dubbing; ten-band octave equalizer; moving-coil head amp; switchable moving-magnet impedance; slimline design

Models also available

RA-2030 Integrated Amplifier, \$680; RB-2000 Power Amplifier, \$610; RC-2000 Preamplifier, \$530; RA-1000 Integrated Amplifier/Equalizer, \$360; RB-1000 Power Amplifier, \$320

SAE
Scientific Audio Electronics, Inc.
710 E. Macy St.
Los Angeles, Calif. 90012

2600 Power Amplifier

Price \$1,350
Dimensions 7H x 19W x 14½D
Weight 65 lbs.
Power 400 watts (26 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 400 watts
Response 20 Hz to 20 kHz, ±0.25 dB
S/N 100 dB (unweighted re 400 watts)
Features Parallel-series output; forced-air cooling; power meters; relay protection

X-25A Power Amplifier

Price \$1,200
Dimensions 7H x 19W x 12D
Weight 50 lbs.
Power 250 watts (24 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.02% at 250 watts
Response 20 Hz to 20 kHz, ±0.2 dB
S/N 110 dB (unweighted re 250 watts)
Features Class A; hypersonic output; fully complementary design

2300 Power Amplifier

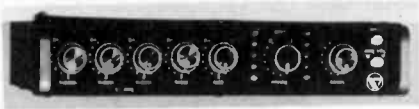
Price \$700
Dimensions 5¼H x 19W x 12½D
Weight 35 lbs.
Power 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 150 watts
Response 20 Hz to 20 kHz, ±0.25 dB
S/N 100 dB (unweighted re 150 watts)
Features Fully complementary design; 30-LED display; relay protection; monocoque construction

X-10A Power Amplifier

Price \$650
Dimensions 3½H x 19W x 12D
Power 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.02% at 100 watts
Response 20 Hz to 20 kHz, ±0.2 dB
S/N 110 dB (unweighted re 100 watts)
Features Class A; hypersonic output; fully complementary design

3100 Power Amplifier

Price \$350
Dimensions 5¼H x 19W x 8½D
Weight 19 lbs.



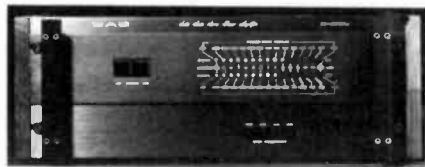
Pyramid Model X Spec 5



Revox B-750



RG Dimension 3



SAE 2400L



Rotel RC-5000



Sansui BA-F1

Power 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.05% at 50 watts

Response 20 Hz to 20 kHz, ± 0.25 dB

S/N 100 dB (unweighted re 50 watts)

Features Fully complementary design; relay speaker protection; LED power display; mono-coque construction

2100L Preamplifier

Price \$800

Dimensions 7H x 19W x 7D

Weight 20 lbs.

Inputs 2 phono; 3 tape; tuner; 2 aux

Response 20 Hz to 20 kHz, ± 0.25 dB

Output 2.5V

THD 0.005%

IM 0.005%

Sensitivity 1.4 to 2.8 mV (phono); 120 mV (high level)

Overload 100 to 200 mV (phono)

Phono EQ 20 Hz to 20 kHz, ± 0.25 dB

Low filter 12/6 dB/octave below 30/100 Hz (switchable)

Features Two-way tape dubbing; LED level display; external processor; speaker switching; phono gain controls; stepped volume controls

3000 Preamplifier

Price \$350

Dimensions 5 1/4 H x 19 W x 3 1/2 D

Weight 10 lbs.

Inputs 2 phono; 2 tape; tuner; aux

Response 20 Hz to 20 kHz, ± 0.25 dB

Output 2.5V

THD 0.02%

IM 0.02%

Sensitivity 2.5 mV (phono); 140 mV (high level)

Overload 150 mV (phono)

Phono EQ 20 Hz to 20 kHz, ± 0.5 dB

Bass control ± 16 dB at 100 Hz

Midrange ± 8 dB at 2 kHz

Treble ± 16 dB at 10 kHz

Low filter 12/6 dB/octave below 30/100 Hz (switchable)

Features Two-way tape dubbing; tape EQ; mute

3022 Integrated Amplifier

Price \$700

Dimensions 5 1/4 H x 19 W x 15 D

Weight 42 lbs.

Inputs 2 phono; 2 tape; tuner; aux

Power 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.05% at 100 watts

Response 20 Hz to 20 kHz, ± 0.25 dB

Sensitivity 1.5 mV (phono); 80 mV (high level)

Overload 150 mV (phono)

S/N 72 dB (phono); 87 dB (aux) (unweighted re 100 watts)

Phono EQ 20 Hz to 20 kHz, ± 0.5 dB

Bass control ± 16 dB at 100 Hz

Midrange ± 8 dB at 2 kHz

Treble ± 16 dB at 10 kHz

Low filter 12/6 dB/octave below 30/100 Hz (switchable)

Features Two-way tape dubbing; separable power amp and preamp; relay speaker protection; tape EQ

SAE TWO Series

A-14 Integrated Amplifier

Price \$650

Dimensions 5 1/4 H x 17 1/2 W x 13 4/5 D

Inputs 2 phono; 2 tape; 1 tuner; 2 aux

Power 140 watts (21.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.05% at 140 watts

Response 20 Hz to 20 kHz, ± 0.25 dB

Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 200 mV (phono)

S/N 94 dB (phono); 100 dB (aux) (unweighted re 140 watts)

Phono EQ 50 Hz to 15 kHz, ± 0.25 dB

Low filter 6 dB/octave below 30 Hz

Features Two-way tape dubbing; separable power and preamp; parametric equalizer; bar graph display; moving coil input

A-7 Integrated Amplifier

Price \$400

Dimensions 5 1/4 H x 17 1/2 W x 13 4/5 D

Inputs 2 phono; 2 tape; 1 tuner; 1 aux

Power 70 watts (18.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.05% at 70 watts

Response 20 Hz to 20 kHz, ± 0.25 dB

Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 150 mV (phono)

S/N 86 dB (phono); 95 dB (aux) (unweighted re 70 watts)

Phono EQ 50 Hz to 15 kHz, ± 0.5 dB

Bass control ± 10 dB at 20 Hz

Midrange ± 10 dB at 1 kHz

Treble ± 10 dB at 10 kHz

Low filter 6 dB/octave below 30 Hz

Features Two-way tape dubbing; separable power and preamp; bar graph power and level display; external processing circuit

A Note on Prices

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

Models also available

X-15A Power Amplifier, N/A; 2400L Power Amplifier, \$850; 2200 Power Amplifier, \$500; 2100 Preamplifier, \$950; 2900 Preamplifier, \$500; 2922 Integrated Amplifier, \$850; 3031 Integrated Amplifier, \$550; C3A Integrated Amplifier, \$325

SANSUI

Sansui Electronics Corp.
1250 Valley Brook Ave.
Lyndhurst, N.J. 07071

AU-X1 Integrated Amplifier

Price \$1,450

Dimensions 7 13/16 H x 18 15/16 W x 17 3/4 D

Weight 61 lbs. 1 oz.

Inputs 2 phono (MM or MC); 2 tape; 1 tuner; 1 aux

Power 160 watts (22 dBW) continuous into 8 ohms from 5 Hz to 20 kHz at no more than 0.007% THD

IM 0.007% at 160 watts

Response DC to 500 kHz, +0, -1 dB

Sensitivity 2.5 mV (MM), 0.1 mV (MC) (phono); 200 mV (high level)

Overload 330 mV (MM); 40 mV (MC) (phono)

S/N 91 dB (MM), 76 dB (MC) (phono); 100 dB (aux) (A-weighted re 160 watts)

Phono EQ 20 Hz to 20 kHz, ± 0.2 dB

Low filter 6 dB/octave below 16 Hz

Features Full 2-way tape dubbing; separable power and preamp; slew rate of 260V/microseconds; 0.5 microsecond rise time; Diamond Differential DC power amp and phono equalization; DC pre-preamp and flat amp; front panel pre-main switch; 2-system speaker switch; "jump" switch for pure DC operation

AU-819 Integrated Amplifier

Price \$700

Dimensions 6 5/8 H x 19 W x 17 1/2 D (with rack-mount adapters)

Weight 46 lbs. 8 oz.

Inputs 2 MM, 1 MC phono; 2 tape; 1 tuner; 1 aux

Power 90 watts (19.5 dBW) continuous into 8 ohms from 10 Hz to 20 kHz at no more than 0.008% THD

IM 0.008% at 90 watts

Response DC to 500 kHz, +0, -3 dB

Sensitivity 2.5 mV (MM), 0.1 mV (MC) (phono); 150 mV (high level)

Overload 350 mV (MM), 30 mV (MC) (phono)

S/N 90 dB (MM), 74 dB (MC) (phono); 100 dB (aux) (A-weighted re 90 watts)

Phono EQ 20 Hz to 20 kHz, ± 0.2 dB

Bass control ± 6 dB at 50 Hz

Treble ± 6 dB at 15 kHz

Low filter 6 dB/octave below 16 Hz

Features Full 2-way tape dubbing; separable power and preamp; slew rate of 200V/microseconds; 0.5 microsecond rise time; Diamond Differential DC power amp and phono equalization; switch-selected tone turnover frequencies; 2-speaker system switch loudness compensation; detachable rack-mount handles

BA-F1 Power Amplifier

Price \$665

Dimensions 7 3/8H x 19W x 17 1/4D

Weight 44 lbs. 15 oz.

Power 110 watts (20.5 dBW) continuous into 8 ohms from 10 Hz to 20 kHz at no more than 0.008% THD

IM 0.008% at 110 watts

Response DC to 600 kHz, +0, -3 dB

S/N 125 dB (A-weighted re 110 watts)

Features Slew rate of 200V/microseconds; 0.5 microsecond rise time; Diamond Differential DC drive circuit; dual peak-power meters; detachable rack-mounting handles

AU-717 Integrated Amplifier

Price \$550

Dimensions 6 3/4H x 19W x 16 1/2D

Weight 39 lbs. 3 oz.

Inputs 2 phono; 2 tape; tuner; aux

Power 85 watts (19.25 dBW) continuous into 8 ohms from 10 Hz to 20 kHz at no more than 0.015% THD

IM 0.015% at 85 watts

Response DC to 200 kHz, +0, -3 dB

Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 350 mV (phono)

S/N 80 dB (phono); 100 dB (aux) (A-weighted re 85 watts)

Phono EQ 20 Hz to 20 kHz, ± 0.2 dB

Bass control ± 10 dB at 50 Hz

Treble ± 10 dB at 15 kHz

High filter 6 dB/octave above 10 kHz

Low filter 6 dB/octave below 16 Hz (infrasonic filter)

Features Two-way tape dubbing; separable power amp and preamp; DC amp; rack-mountable by detachable handles; switchable bass and treble turnover points; volume control via precision-stepped attenuator

CA-F1 Preamplifier

Price \$495

Dimensions 2 3/4H x 19W x 17 1/2D

Weight 13 lbs. 6 oz.

Inputs 2 phono (1 moving coil, 1 moving magnet); 2 tape; 1 tuner; 1 aux

Response 5 Hz to 600 kHz, +0, -3 dB

Output 1V (nominal); 10V (max)

THD 0.005%

Sensitivity 2.5 mV (MM) 0.1 (MC) (phono); 150 mV (high level)

Overload 350 mV (MM), 24 mV (MC) (phono)

Phono EQ 20 Hz to 20 kHz, ± 0.2 dB

Bass control ± 7 dB at 50 Hz

Treble ± 7 dB at 15 kHz

Low filter 6 dB/octave below 16 Hz

Features Slew rate of 50V/microseconds; 0.6 microsecond rise time; Diamond Differential DC phono equalizer; dual outputs; click-stop tone controls; switchable loudness contour; detachable rack-mounting handles

AU-317 Integrated Amplifier

Price \$350

Dimensions 4 3/4H x 19W x 13 3/4D

Weight 21 lbs. 6 oz.

Inputs Phono; tape; tuner; mic; aux

Power 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD

IM 0.03% at 50 watts

Response DC to 200 kHz, +0 dB, -2.5 dB

Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 200 mV (phono)

S/N 77 dB (phono); 100 dB (aux) (A-weighted re 50 watts)

Phono EQ 20 Hz to 20 kHz, ± 0.2 dB

Bass control ± 11 dB at 50 Hz

Treble ± 10 dB at 15 kHz

High filter 6 dB/octave above 7 kHz

Low filter 6 dB/octave below 13 Hz (phono infrasonic filter)

Features Separable power amp and preamp; 40V/microseconds slew rate; 1.4 microsecond rise time; DC amp; rack-mountable by detachable handles; volume control via precision-stepped attenuator; mic mixing

Models also available

AU-919 Integrated Amplifier, \$800; AU-719 Integrated Amplifier, \$575; AU-519 Integrated Amplifier, \$500; AU-417 Integrated Amplifier, \$395; AU-217-II Integrated Amplifier, \$230; AU-117-II Integrated Amplifier, \$190

SANYO

Sanyo Electric, Inc.
1200 W. Artesia Blvd.
Compton, Calif. 90220

Plus P55 Power Amplifier

Price \$349.95

Dimensions 3 1/2H x 17 3/4W x 10 5/8D

Weight 26 lbs.

Power 100 watts (20 dBW) continuous into 4 or 8 ohms from 20 Hz to 20 kHz at no more than 0.009% THD

Response 7 Hz to 100 kHz, +0, -1 dB

S/N 100 dB (IHF A-weighted)

Features Left and right channel LED peak power indicators with 12-segment display range selector; 200 watts available in mono mode; 150 microvolts slew rate; fluid connection radiator

Plus A35 Integrated Amplifier

Price \$299.95

Dimensions 3 1/2H x 17 3/4W x 10 5/8D

Weight 24 lbs.

Inputs 2 phono (1 moving coil, 1 moving magnet); 1 tape; 1 tuner; 1 aux

Power 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD

Response 7 Hz to 100 kHz, -1 dB

S/N 110 dB (phono) (IHF A-weighted)

Bass control ± 10 dB at 100 Hz

Treble ± 10 dB at 10 kHz

High filter 6 dB/octave above 8 kHz

Low filter 12 dB/octave below 30 Hz (subsonic)

Features Two-way tape dubbing; moving-coil preamp; 12-step LED power indicators, 90V slew rate; loudness control; two tape monitor switches

Plus C55 Preamplifier

Price \$249.95

Dimensions 1 3/4H x 17 3/4W x 10 5/8D

Weight 13 lbs.

Inputs 2 phono (1 moving-coil, 1 moving-magnet); 1 tape; 1 tuner; 1 aux

Response 20 Hz to 20 kHz, ± 0.2 dB

Bass control ± 10 dB at 100 Hz

Treble ± 10 dB at 10 kHz

Features Two-way tape dubbing; two-position infrasonic filter; 3-position bass and treble turnover; tone defeat

Models also available

DCA-611 Integrated Amplifier, \$269.95; DCA-411 Integrated Amplifier, \$199.95; DCA-311 Integrated Amplifier, \$179.95

SCOTT

H. H. Scott, Inc.
20 Commerce Way
Woburn, Mass. 01801

Alpha 6 Power Amplifier

Price \$400

Dimensions 5 1/4H x 19W x 12 1/2D

Weight 40 lbs.

Power 60 watts (17.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD

IM 0.1% at 60 watts

Response 10 Hz to 50 kHz, ± 0.25 dB

S/N 100 dB (A-weighted re 60 watts)

Features Two logarithmic power meters; speaker switching for 2 sets of speakers; separate channel-level controls

Alpha 1 Preamplifier

Price \$400

Dimensions 5 1/4H x 19W x 12 1/2D

Weight 15 lbs.

Inputs 2 phono; 2 tape; tuner; 2 mic; 2 aux

Response 15 Hz to 35 kHz, ± 0.25 dB

Output 2.5V

THD 0.1%

IM 0.1%

Sensitivity 2.5 mV (phono); 9 mV (high level)

Overload 125/450 mV (phono)

Phono EQ 20 Hz to 20 kHz, ± 0.25 dB

Bass control ± 7 dB at 50 Hz (100 Hz position); ± 11 dB at 100 Hz (300 Hz position)

Midrange ± 7 dB at 1 kHz

Treble ± 11 dB at 10 kHz (3 kHz position); ± 7 dB at 20 kHz (8 kHz position)

High filter 12 dB/octave above 8 kHz (or 12 kHz)

Low filter 12 dB/octave below 40 Hz (or 80 Hz)

Features Two-way tape dubbing; switchable accessory; -20 dB muting; contour and bypass functions; bass, treble, and midrange controls with switchable 4-position turnover points; 4-position filters

460A Integrated Amplifier

Price \$430

Dimensions 5 1/4H x 17W x 14 1/4D

Weight 27 lbs.

Inputs 2 phono; 2 tape; tuner; aux

Power 70 watts (18.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.04% THD

IM 0.04% at 70 watts

Response 10 Hz to 40 kHz, ± 1.0 dB

Sensitivity 2.5 mV (phono 1); 2.5/50 mV (phono 2)

Overload 180/360 mV (phono)

S/N 90 dB (phono); 95 dB (aux)

Phono EQ 20 Hz to 20 kHz, ± 0.5 dB

Bass control ± 10 dB at 100 Hz

Midrange ± 6 dB at 1 kHz

Treble ± 10 dB at 10 kHz

High filter 13 dB/octave above 8 kHz

Low filter 12 dB/octave below 18 Hz

Features Two-way tape dubbing; 2 independent phono preamps and separate recording and input selectors for simultaneous recording &

Listening to any two sources; protection circuitry with LED indication; active low and high filters; accessory in/out

Models also available

480A Integrated Amplifier, \$500;
440A Integrated Amplifier, \$350;
420A Integrated Amplifier, \$250

SERIES 20

Series 20

20 Jewell St.

Moonachie, N.J. 07074

M-25 Power Amplifier

Price \$1,200
Dimensions 6H x 16½W x 14½D
Weight 51 lbs. 12 oz.
Power 120 watts (20 dBW) continuous into 8 ohms from 5 Hz to 30 kHz at no more than 0.01% THD
IM 0.006% at 120 watts
Response 5 Hz to 20 kHz, +0, -1 dB
S/N 120 dB (A-weighted re 120 watts)
Features Class AB; FET output transistors; gold-plated terminals

C-21 Preamp

Price \$390
Dimensions 3¼H x 16½W x 15D
Weight 13 lbs. 14 oz.
Inputs Phono; tape; 2 aux
Response 10 Hz to 100 kHz, ±0.2 dB
Output 1V (20V max)
THD 0.005%
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 300 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Low filter 6 dB/octave below 15 Hz
Features Phono-input resistance and capacitance selectors

A-27 Integrated Amplifier

Price \$1,300
Dimensions 6½H x 17½W x 18¾D
Weight 55 lbs. 8 oz.
Inputs 2 phono; 2 tape; 1 tuner; mic; 2 aux
Power 120 watts (20 dBW) continuous into 8 ohms from 5 Hz to 30 kHz at no more than 0.015% THD
IM 0.006% at 120 watts
Response 5 Hz to 200 kHz, +0, -1 dB
Sensitivity 2.5 mV (phono); 150 mV (high level); 250 mV (moving-coil phono)
Overload 300 mV (phono)
S/N 90 dB (phono); 100 dB (aux) (A-weighted re 120 watts)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass control ±5 dB at 100 Hz; ±4 dB at 50 Hz
Treble ±5 dB at 10 kHz; ±4 dB at 20 kHz
Low filter 6/12 dB/octave below 15 Hz (switchable)
Features Two-way tape dubbing; separable power and preamp; Class AB; moving-coil input; phono-input resistance and capacitance selector; FET output transistors

Models also available

M-22 Power Amplifier, \$790

SHERWOOD

Sherwood

4300 North California Ave.
Chicago, Ill. 60618

S-702CP Integrated Amplifier

Price \$325
Dimensions 5½H x 17¼W x 12¾D

Weight 30 lbs.
Inputs 2 phono; 2 tape; 1 tuner; 1 mic; 2 aux
Power 60 watts (17.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.2% THD
IM 0.2% at 60 watts
Response 5 Hz to 110 kHz, ±1 dB
Sensitivity 2.5 mV (phono); 160 mV (high level)
Overload 200 mV (phono)
S/N 80 dB (phono); 95 dB (aux) (IHF A-weighted re input sensitivity)
Phono EQ 30 Hz to 20 kHz, ±0.5 dB
Bass control ±14 dB at 50 Hz (detented)
Treble ±12 dB at 15 kHz (detented)
High filter 12 dB/octave above 7 kHz
Low filter 12 dB/octave below 20 Hz
Features Two-way tape dubbing; separable power and preamp; mic mixing; 3 protection circuits; tone defeat; loudness; certified performance (notarized certificate with each unit for exact performance)

Models also available

S-402CP Integrated Amplifier, \$225

SHURE

Shure Brothers, Inc.

222 Hartrey Ave.

Evanston, Ill. 60025

SR-105A Power Amplifier

Price \$541
Dimensions 7H x 19W x 10¾D
Weight 34 lbs. 8 oz.
Power 200 watts (23 dBW) continuous into 4 ohms from 20 Hz to 20 kHz at no more than 2% THD
Response 20 Hz to 20 kHz, ±1.5 dB
Features Single-channel unit; transformer-coupled; constant-voltage 70V output also available; rack-mount; optional A105A carrying case, \$83.75

M-64 Preamp

Price \$73.75
Dimensions 2 41/64H x 5 19/32W x 4½D
Weight 1 lb. 12 oz.
Inputs Two switch-selectable for phono, flat, or tape
Response 20 Hz to 20 kHz, ±2 dB flat
Output 5.3V
THD 1%
Overload 100 mV (phono)
Phono EQ 40 Hz to 15 kHz, ±2 dB

Models also available

SR-105B Power Amplifier, \$502

SONY

Sony Industries

9 W. 57th St.

New York, N.Y. 10019

TA-E88B Preamp

Price \$1,300
Dimensions 3¼H x 18¾W x 14½D
Weight 20 lbs.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Response DC to 500 kHz, +0, -1 dB
Output 1.5V
THD 0.002% at 10V out
IM 0.002% at 10V out
Sensitivity 2.5 mV (phono); 150 mV (high level)

Phono EQ RIAA ±0.2 dB
Low filter 12 dB/octave below 15 Hz
Features Dual mono construction; moving-coil capability

TA-N88B Power Amplifier

Price \$1,050
Dimensions 3¼H x 18¾W x 14½D
Weight 24 lbs. 3 oz.
Power 160 watts (22 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.5% THD
IM 0.1% at 22 watts
Response 5 Hz to 40 kHz, +05, -1 dB
S/N 110 dB (IHF A-weighted)
Features High-efficiency, high-power pulse width modulation circuitry with vertical FET power switching stage; pulse power supply; three stages of amplifier/speaker protection circuitry

TA-E7B Preamp

Price \$820
Dimensions 6¾H x 18¾W x 12¾D
Weight 26 lbs. 8 oz.
Inputs 2 phono; 2 tape; 1 tuner; 2 aux
Response 1 Hz to 150 kHz, +0, -1 dB
THD 0.003%
IM 0.003%
Sensitivity 250 mV (phono); 12.5 mV (head amp phono)
Phono EQ RIAA, ±0.2 dB; 1 Hz to 150 kHz, +0, -1 dB
Bass control ±10 dB at 25 Hz
Treble ±10 dB at 20 kHz
High filter 12 dB/octave above 9 kHz
Low filter 12 dB/octave below 30 Hz
Features Two-way tape dubbing; direct-coupled FET input circuit and direct-coupled DC unit amplifiers; Sony LEC transistors for moving-coil cartridges; four power supply circuits for each channel; gold-plated phono inputs

TA-F70 Integrated Amplifier

Price \$725
Dimensions 6 5/16H x 17W x 16 13/16D
Weight 19 lbs. 3 oz.
Inputs 2 phono (1 moving-coil, 1 moving-magnet); 1 tape; 1 tuner; 1 aux
Power 90 watts (19.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.007% THD
IM 0.007% at rated output
Response DC to 100 kHz, +0, -1 dB
Sensitivity 2.5 mV (phono); 0.125 mV (high level)
S/N 100 dB (phono); 105 dB (aux) (IHF A-weighted)
Phono EQ RIAA, ±0.2 dB
Bass control ±10 dB at 250 Hz
Treble ±10 dB
Low filter 12 dB/octave below 15 Hz
Features Two-way tape dubbing; pulse power supply; thermodynamic coding; high "ft" transistors; 20-segment power-output display

TA-F60 Integrated Amplifier

Price \$450
Dimensions 6 5/16H x 17W x 13 7/16D
Weight 14 lbs. 11 oz.
Inputs 2 phono (1 moving-coil, 1 moving-magnet); 1 tape; 1 tuner; 1 aux
Power 75 watts (18.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD
IM 0.01% at rated output
Response 3 Hz to 70 kHz, +0, -1 dB
Sensitivity 2.5 mV (phono); 0.25 mV (high level)
S/N 100 dB (phono); 100 dB (aux) (IHF A-weighted)
Phono EQ RIAA, ±0.2 dB
Bass control ±10 dB at 300 Hz

Treble ± 10 dB at 5 kHz
Low filter 6 dB/octave below 15 Hz
Features Two-way tape dubbing; pulse power supply; thermodynamic cooling; high "ft" transistors

F-30 Integrated Amplifier

Price \$260
Dimensions 3 $\frac{1}{4}$ "H x 17W x 13 $\frac{1}{4}$ "D
Weight 13 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 1 aux
Power 30 watts (14.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.02% at 30 watts
Response 5 Hz to 60 kHz, +0, -2 dB
Sensitivity 2.5 mV (phono); 140 mV (high level)
Overload 220 mV (phono)
S/N 86 dB at 5 mV (phono); 100 dB (aux)
Phono EQ RIAA, ± 0.3 dB
Bass control ± 10 dB
Treble ± 10 dB
Features Electronic tonal defeat

Models also available

TA-P7F Integrated Amplifier, N/A;
 TA-E86B Preamp, \$1,300; TA-N7B Power Amplifier, \$920; TA-F6B Integrated Amplifier, \$610; TA-N86B Power Amplifier, \$600; TA-F40 Integrated Amplifier, \$350

SOUNDCRAFTSMEN

Soundcraftsmen, Inc.
 2200 S. Ritchey
 Santa Ana, Calif. 92705

EA-5003 Power Amplifier/Equalizer

Price \$949
Dimensions 7H x 19W x 15D
Weight 54 lbs.
Power 250 watts (24 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 250 watts
Response 20 Hz to 20 kHz, ± 0.25 dB
S/N 105 dB
Features Ten-band stereo equalizer; input level controls; clipping indicators, Class H circuitry

MA-5002 Power Amplifier

Price \$799
Dimensions 7H x 19W x 15D
Weight 54 lbs.
Power 250 watts (24 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 250 watts
Response 20 Hz to 20 kHz, ± 0.25 dB
S/N 105 dB
Features Input level controls; speaker switching; Class H circuitry; output meters; clipping indicators

SP-4002 Preamplifier/Equalizer

Price \$699
Dimensions 7H x 19W x 11D
Weight 28 lbs.
Inputs 1 phono; 1 tape; 1 tuner; 1 aux
Response 5 Hz to 100 kHz, ± 0.25 dB
Output 10V
THD 0.01%
IM 0.01%
Sensitivity 0.28 mV (phono)
Overload 300 mV (phono)

Phono EQ 20 Hz to 20 kHz, ± 0.25 dB
Low filter 12 dB/octave below 15 Hz
Features Two-way tape dubbing; three-way tape dubbing; dual 10-band equalizer; moving-coil cartridge input; 4 mono-phono preamps; 2 amplified headphone outputs; 2 external processing loops; zero-detents slide box, front panel TAPE IN and OUT; test record; EQ charts; walnut case included

Models also available

PA-5001 Power Amplifier, \$649;
 PE-2217R Preamplifier/Equalizer, \$549

SOURCE ENGINEERING

Source Engineering
 Box 506
 Wilmington, Mass. 01887

Specialist Preamplifier

Price \$495
Dimensions 2H x 17 $\frac{1}{2}$ "W x 12D (rack-mount version, 1 $\frac{3}{4}$ "H)
Weight 6 lbs.
Inputs 2 phono; 1 tape; 1 tuner; 1 aux; 1 mono aux
Response 20 Hz to 70 kHz, ± 0.5 dB
Output 1/3.2V (switchable)
THD 0.1%
IM 0.1%
Sensitivity 3.5 mV (phono); 316 mV (high level)
Overload 75 mV (1 kHz), 300 mV (8 kHz) (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass control None
Midrange None
Treble +0, -14 dB at 10 kHz (mono only)
High filter 50 dB/octave above 7/3 kHz (mono only)
Low filter 24 dB/octave below 25/140 Hz (mono only)
Features Mono disc equalization options to suit most LP, 45, and 78 rpm records; stereo volume expander (like VRE); mono noise-reduction system (like Source Noise Suppressor); constant-power balance control; headphone jack (30 mW into 600 ohms each channel)

Models also available

PNS Preamplifier Noise Suppressor, \$395

SPECTRO ACOUSTICS

Spectro Acoustics, Inc.
 3200 George Washington Way
 Richland, Wash. 99352

500R Power Amplifier

Price \$650
Dimensions 7H x 19W x 12D
Weight 40 lbs.
Power 250 watts (23.9 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.15% THD
IM 0.15% at 250 watts
Response 10 Hz to 40 kHz, ± 1 dB
S/N 107 dB (A-weighted re 250 watts)
Features Pro/Com amplifier; modular construction; Class AB circuitry; standard EIA rack-mount; optional solid oak or walnut end panels

200SR Power Amplifier

Price \$500
Dimensions 6H x 19W x 10D
Weight 25 lbs.
Power 110 watts (20.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.08% THD
IM 0.08% at 110 watts
Response 10 Hz to 40 kHz, ± 1 dB
S/N 100 dB (unweighted re 110 watts)
Features Modular construction; Class AB circuitry; 20-segment LED power monitor per

channel; standard EIA rack-mount; optional solid oak or walnut end panels

217R Preamplifier

Price \$285
Dimensions 3 $\frac{1}{2}$ "H x 19W x 7 $\frac{1}{2}$ "D
Weight 10 lbs.
Inputs 2 phono; 2 tape; tuner; aux
Response 5 Hz to 100 kHz, ± 1 dB
Output 2V
THD 0.05%
IM 0.0075%
Sensitivity 3/10 mV (phono) (switchable); 300 mV (high level)
Overload 100/300 mV (phono) (switchable)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Low filter 18 dB/octave below 10 Hz (-3 dB at 20 Hz)

Features Straight-line design (no tone controls); two-way tape dubbing; capacitive and resistive cartridge loading; IC circuitry in phono and output stages; optional solid oak or walnut end panels

Models also available

500-SR Amplifier, \$750; 200R Power Amplifier, \$400

STANTON

Stanton Magnetics, Inc.
 Terminal Drive
 Plainview, N.Y. 11803

210B Preamplifier

Price \$240
Dimensions 3H x 8 $\frac{1}{2}$ "W x 7D
Weight 5 lbs. 12 oz.
Inputs 2 phono
Response 30 Hz to 20 kHz, ± 1 dB
Output 7.75V (rms into 600 ohms)
THD 0.10% (at max output)
IM 0.15%
Sensitivity 1.5 mV (phono)
Overload 150 mV (phono) (1 kHz)
Phono EQ 20 Hz to 20 kHz, ± 1 dB (max)
Treble ± 3 dB at 20 kHz
Features NAB flat switch transformer outputs; 110 dBV input noise; interchannel crosstalk better than 60 dB

STAX

American Audioport
 1407 N. Providence Road
 Columbia, Mo. 65201

DA-80 Power Amplifier

Price \$1,500
Dimensions 16 $\frac{1}{2}$ "H x 17 $\frac{1}{2}$ "W x 6 $\frac{1}{2}$ "D
Weight 43 lbs.
Power 45 watts (16.5 dBW) continuous into 8 ohms from DC to 25 kHz at no more than 0.0018% THD
IM 0.01% at 0.25 watt
Response DC to 60 kHz, ± 0.25 dB
S/N 100 dB (A-weighted re 10 mV)
Features Protective circuits for short circuit, thermal, DC; pure Class A operation; DC coupling

SRA-12S-R11 Preamplifier

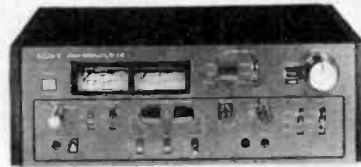
Price \$500
Dimensions 4 $\frac{1}{2}$ "H x 7W x 12D
Weight 9 $\frac{1}{2}$ lbs.
Inputs Phono; tape tuner; aux
Response 5 Hz to 100 kHz, +0, -3 dB
Output 7V
THD 0.007%
IM 0.021%
Sensitivity 1 mV (phono); 100 mV (high level)
Overload 70 mV (phono)
Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Features One-way tape dubbing; built-in headphone amplifier

Models also available

DA-80M Power Amplifier, \$1,450



Sanyo P-55



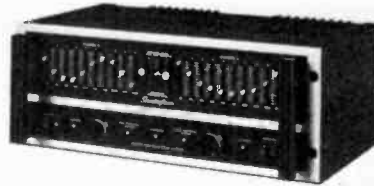
Sony TA-E7B



Teac BX-50V



Sherwood S-702P



Soundcraftsmen EA-5003



Yamaha C-6

STRELIOFF

Strelloff Systems Designs

5305 Tendilla Ave.

Woodland Hills, Calif. 91364

DC 1 200/200 Power Amplifier

Price \$2,250
Dimensions 7H x 19W x 12D
Weight 50 lbs.
Power 200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 1.0% THD
IM 1.0% at 200 watts
Response 10 Hz to 25 kHz, ± 1 dB
S/N 98 dB (unweighted re 200 watts)
Features Class AB circuit design employs only discrete devices; 220 Joule power supply; fully modular chassis design

TA 1/RS 1 Preamplifier

Price \$1,750
Dimensions 3½H x 19W x 15D (TA-1); 3½H x 19W x 11D (RS-1)
Weight 25 lbs. (both units)
Inputs 2 phono; 1 tape; 1 tuner; 1 mic; 2 aux
Response 10 Hz to 100 kHz, ± 1.0 dB
Output 10V
THD 0.1%
IM 0.1%
Sensitivity 0.20 mV (phono); 20 mV (high level)
Overload 500 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 1 dB
Features Two fully separate phono sections; circuit design employs only discrete devices on plug-in circuit boards; all AC functions isolated within RS-1 chassis

Models also available

DC 1 100/100 Power Amplifier, \$1,750

TEAC

Teac Corp.

7733 Telegraph Road

Montebello, Calif. 90640

MA-7 Power Amplifier

Price \$830
Power 150 watts (21.75 dBW) continuous into 8 ohms from 10 Hz to 20 kHz at no more than 0.03% THD
IM 0.003% at 150 watts
Response DC to 300 kHz, ± 3 dB
S/N 121 dBV (A-weighted re 150 watts)
Features Two mono amps on one chassis; slew rate of +170V; output bandwidth, 350 kHz (IHF -3 dB); low drift output, ± 50 mV or less; equivalent input noise of -121 dBV (at short input, A-weighted); input sensitivity of 150W re 1V

PA-7 Preamplifier

Price \$750
Inputs 2 phono; 2 tape; 1 tuner; 1 mic; 1 aux
Response 0.5 Hz to 100 kHz, ± 1 dB
Output 1V (18V max)
THD 0.03%
IM 0.003%
Sensitivity 200V (MM) 0.54 mV (MC) (phono)
Overload 270 mV (phono) at 1 kHz
Phono EQ 5 Hz to 20 kHz, ± 1 dB
Bass control ± 10 dB at 200 Hz
Treble ± 10 dB at 10 kHz
High filter 18 dB/octave (infrasonic)
Features Two-way tape dubbing; S/N of -159 dBV direct-coupled servo amp; slew rate of $\pm 100V/\mu\text{second}$; S/N of -159 dB/V

BX-500 Integrated Amplifier

Price \$330
Dimensions 5½H x 16½W x 10 11/16D
Weight 18 lbs. 11 oz.
Inputs 2 phono; 2 tape; 1 tuner; 1 aux
Power 55 watts (17.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.08% THD
IM 0.008% at 55 watts
Response 5 Hz to 50 kHz, ± 2 dB
Sensitivity 160V (MM), 0.50 mV (MC) (phono)
S/N 150 dBV (phono); 120 dBV (aux) (unweighted re 55 watts)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass control ± 10 dB at 20 Hz
Treble ± 10 dB at 20 kHz
Low filter 6 dB/octave below 20 Hz
Features Two-way tape dubbing; peak meter; -20 dB muting; damping factor of 50

Models also available

BX-300 Integrated Amplifier, \$250

TECHNICS

Panasonic Co.

One Panasonic Way

Secaucus, N.J. 07094

SU-8099 Integrated Amplifier

Price \$1,000
Dimensions 5 19/32H x 17 23/32W x 16 17/32D
Weight 44 lbs. 1 oz.
Inputs 2 phono (moving coil and moving magnet); 2 tape; 1 tuner; 1 aux
Power 115 watts (20.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.007% THD
IM 0.007% at 115 watts
Response DC to 130 kHz, -1 dB; 20 Hz to 20 kHz, +0, -0.1 dB
Sensitivity 2.5 μV moving magnet, 100 mV moving coil (phono); 200 mV (high level)
Overload 250 mV moving magnet, 10 mV

S/N 90 dB moving magnet, 72 dB moving coil (phono); 110 dB (aux) (IHF A-weighted re 115 watts)
Phono EQ RIAA, ± 0.15 dB
Bass control ± 7.5 dB at 50 Hz
Treble ± 7.5 dB at 20 kHz
High filter 6 dB/octave above 7 kHz
Low filter 12 dB/octave below 20 Hz
Features Two-way tape dubbing; separable power and preamp; straight DC input-output; fast-acting fluorescent peak-power indicators; independent tape record-input and amplifier input function selectors; moving-coil phono input; three turnover frequencies for bass and treble controls, plus tone defeat selector

SU-9070 Preamplifier

Price \$460
Dimensions 4H x 19W x 14½D
Weight 15 lbs. 14 oz.
Inputs 3 phono (1 moving-coil, 2 moving-magnet); 3 tape; tuner; aux
Response DC to 100 kHz, +0, -1 dB; 20 Hz to 20 kHz, +0, -0.1 dB
Output 1V (20V max)
THD 0.004% (up to 20V)
Sensitivity 2.5 mV (MM), 60 microvolts (MC) (phono); 150 mV (high level)
Overload 380 mV (MM); 9 mV (MC) (phono)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Low filter 12 dB/octave below 20 Hz
Features Three-way tape dubbing; DC circuitry; direct input for magnetic cartridge; 6-gang volume control; rack-mountable

SE-C01 Micro Power Amplifier

Price \$360
Dimensions 1 15/16H x 11 11/16W x 9 27/32D
Weight 7 lbs. 11 oz.
Power 40 watts (16 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% at 40 watts
Response DC to 100 kHz, +0, -1 dB
S/N 110 dB (IHF A-weighted re 40 watts)
Features DC throughout; pulsed power supply improves efficiency, permits space reductions; color-coded LED power metering; may be strapped for higher power mono operation; positive relay protection and muting; residual hum and noise, MM 0.1 mV

SU-8055 Integrated Amplifier

Price \$300
Dimensions 5 19/32H x 16 15/16W x 10 1/32D
Weight 16 lbs. 13 oz.
Inputs 1 phono moving magnet and moving coil; 2 tape; 1 tuner; 1 aux
Power 48 watts (16.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.02% at 48 watts
Response 10 Hz to 60 kHz, +0, -1 dB
Sensitivity 2.5 mV moving magnet, 170 μV

moving coil (phono); 150 mV (high level)

Overload 150 mV moving magnet, 6.5 mV moving coil (phono)

S/N 85 dB moving magnet, 69 dB moving coil (phono); 97 dB (aux) (IHF A-weighted re 48 watts)

Phono EQ RIAA, ± 0.5 dB

Bass control ± 10 dB at 50 Hz

Treble ± 10 dB at 20 kHz

High filter 6 dB/octave above 7 kHz

Low filter 6 dB/octave below 30 Hz

Features Two-way tape dubbing; DC power amplifier; fast-acting fluorescent peak-power indicators; independent tape record-input and amp-input function selectors; infrasonic filter; moving-coil phono input

SU-CO1 Micro Preamp

Price \$260

Dimensions 1 15/16H x 11 11/16W x 9/4D

Weight 6 lbs. 10 oz.

Inputs 2 phono moving magnet and moving coil; 1 tape; 1 tuner; 1 aux

Response 3 Hz to 100 kHz, +0 -1 dB

Output 3V

THD 0.003%

Sensitivity 2.5 mV moving magnet, 100 μ V moving coil (phono); 150 mV (high level)

Phono EQ RIAA, ± 0.2 dB

Bass control ± 10 dB at 50 Hz

Treble ± 10 dB at 20 kHz

High filter 6 dB/octave above 7 kHz

Low filter 12 dB/octave below 30 Hz

Features Built-in MC pre-amp; tone controls with center-defeat position; infrasonic filter; gold-plated connection jacks

Models also available

SU-8088 Integrated Amplifier, \$600; SE-9060 Power Amplifier, \$460; SU-8077 Integrated Amplifier, \$450; SU-8044 Integrated Amplifier, \$260; SU-8011 Integrated Amplifier, \$175

THRESHOLD

Threshold Corp.
1832 Tribute Road, #E
Sacramento, Calif. 95815

Stasis 1 Power Amplifier

Price \$3,000

Dimensions 8 3/4H x 19W x 16 1/2D

Weight 96 lbs.

Power 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz

Response 20 Hz to 20 kHz, ± 0 dB

Features Signal amplifier operated under conditions at constant voltage/constant current, and without feedback

4000 Power Amplifier

Price \$2,160

Dimensions 6 15/16H x 19W x 17 1/4D

Weight 83 lbs.

Power 200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.05% at 200 watts

Response 20 Hz to 20 kHz, ± 0 dB

S/N 105 dB

Features Cascode/Class A operation throughout; LED peak-average display

SL-10 Preamp

Price \$943

Dimensions 2 5/8H x 19W x 8D

Weight 18 lbs. 4 oz.

Inputs 1 phono; 1 tape; 1 tuner; 1 aux

Response DC to 500 kHz, +0, -3 dB

Output 5V

THD 0.006%

IM 0.008%

Overload 320 mV (phono)

Phono EQ 20 Hz to 20 kHz, ± 0.5 dB

Features Cascode/Class A design; Internal MC preamp; external power supply

Models also available

400A Power Amplifier, \$1,395;
CAS-2 Power Amplifier, \$895

TOSHIBA

Toshiba America, Inc.
280 Park Ave.
New York, N.Y. 10017

SC-665 Power Amplifier

Price \$349.95

Dimensions 3 4/5H x 16 1/2W x 13 9/10D

Weight 18 lbs. 11 oz.

Power 65 watts (18 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD

IM 0.02% at 65 watts

Response DC to 80 kHz, ± 1 dB

S/N 117 dB (IHF A-weighted)

SC-335 Power Amplifier

Price \$179.95

Dimensions 3 4/5H x 16 1/2W x 9 1/2D

Weight 13 lbs. 6 oz.

Power 40 watts (16 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD

Response 5 Hz to 80 kHz, ± 1 dB

S/N 95 dB

SY-335 Preamp

Price \$119.95

Dimensions 3 4/5H x 16 1/2W x 9 1/2D

Weight 6 lbs. 10 oz.

Inputs 2.5 mV (phono); 150 mV (tape); 150 mV (tuner); 2 mV (mic); 150 mV (aux)

Response 30 Hz to 15 kHz, ± 0.5 dB

Output 1V

THD 0.1%

Overload 150 mV (phono)

Bass control ± 10 dB at 100 Hz

Treble ± 10 dB at 10 kHz

Models also available

M-15 Power Amplifier, \$339.95;
C-15 Preamp, \$299.95; SY-665 Preamp, \$199.95

VA SYSTEMS

VA Systems, Inc.
1444 Cliff Road
Burnsville, Minn. 55337

Model Two Power Amplifier

Price \$1,200

Dimensions 7H x 19W x 14D

Weight 46 lbs.

Features Remote power switch; DC relay speaker protection; forced-air cooling; capable of driving low-impedance speakers

Model Six Preamp

Price \$550

Dimensions 3 1/2H x 17W x 9D

Weight 9 lbs.

Inputs Phono; tuner; reserve 1; reserve 2; 2 tape monitors

Output 12V (peak)

Features Fully buffered inputs and outputs; digitally controlled switching

Models also available

Model Three Power Amplifier, \$900; Model Seven Preamp, \$850

YAMAHA

Yamaha International Corp.
6600 Orangethorpe
Buena Park, Calif. 90620

M-2 Power Amplifier

Price \$1,200

Dimensions 7 3/16H x 17 1/8W x 1 1/4D

Weight 50 lbs.

Power 240 watts (23.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.005% THD

IM 0.002% at 120 watts

Response 10 Hz to 100 kHz, ± 0.5 dB

S/N 123 dB (A-weighted re 240 watts)

Features DC amplifier; peak-level meters; level control

C-2a Preamp

Price \$950

Dimensions 2 5/8H x 17W x 12 9/16D

Weight 17 lbs.

Inputs 2 phono (1 moving-coil, 1 moving magnet); 2 tape; 1 tuner; 1 aux

Response 10 Hz to 100 kHz, ± 0.2 dB

Output 2V

THD 0.003%

IM 0.003%

Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 350 mV (phono)

Phono EQ 20 Hz to 20 kHz, ± 0.2 dB

Bass control ± 10 dB at 20 Hz

Treble ± 10 dB at 50 kHz

Low filter 12 dB/octave below 15 Hz

Features Two-way tape dubbing; moving-coil cartridge head amp; selectable cartridge load, resistance and capacitance

CA-2010 Integrated Amplifier

Price \$800

Dimensions 6 5/8H x 18 1/8W x 14 1/4D

Weight 44 lbs.

Inputs 3 phono; 2 tape; tuner; aux

Power 120 watts (20.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD

IM 0.03% at 120 watts

Response 5 Hz to 50 kHz, $\pm 0, -1$ dB (tuner to speaker out)

Sensitivity 2 mV (phono)

Overload 310 mV (phono)

S/N 96 dB (phono); 100 dB (aux) (A-weighted re 115 watts)

Bass control ± 10 dB at 20 Hz (500 Hz)

Treble ± 10 dB at 20 kHz (2.5 kHz)

High filter 12 dB/octave above 10 kHz

Low filter 12 dB/octave below 15 Hz

Features Two-way tape dubbing; separable power amp and preamp; switchable 30-watt Class A operation; output meters; built-in head amp; switchable phono impedance; muting; continuously variable loudness control

C-6 Preamp

Price \$450

Dimensions 4 1/2H x 17 1/8W x 13 5/16D

Weight 13 lbs.

Inputs 2 phono; 2 tape; 1 tuner; 1 aux

Response 10 Hz to 100 kHz, ± 0.3 dB

Output 2V

THD 0.003% MM phono to pre out

IM 0.015%; 0.003% aux to pre out

Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 240 mV (phono)

Phono EQ 20 Hz to 20 kHz, ± 0.2 dB

Bass control ± 12 dB (31.5 to 640 Hz)

Treble ± 12 dB (640 to 12.5 kHz)

High filter 12 dB/octave above 10 kHz

Low filter 12 dB/octave below 15 Hz

Features Parametric tone control; moving-coil cartridge head amp; independent input and record-out selector

Models also available

CA-1010 Integrated Amplifier, \$670; M-4 Power Amplifier, \$650; A-1 Integrated Amplifier, \$630; C-4 Preamp, \$550; CA-610 II Integrated Amplifier, \$300; CA-410 II Integrated Amplifier, \$250

Tuners

AIWA

Aiwa America
35 Oxford Dr.
Moonachie, N.J. 07074

AT-9700U

Price \$520
Dimensions 6 3/16 H x 18 9/16 W x 14 13/16 D
Weight 21 lbs. 3 oz.
Quieting 15.3 dBf/35.3 dBf (50 dB)
S/N 80 dB/78 dB
Response 30 Hz to 15 kHz, +0.2, -0.5 dB/50 Hz to 15 kHz ± 0.2 dB
THD 0.03% (1 kHz)/0.05% (1 kHz)
Separation 50 dB, 1 kHz
Subcarrier 65 dB
Capture 1 dB
Selectivity 80 dB
Features Quartz PLL-MPX circuitry; quartz servo-lock; digital frequency readout; 10-point LED indicators; 3-point fine tuning; auto selectivity switch; built-in recording level oscillator; -40 to +13 dB peak meters level oscillator; -40 to +13 dB peak meters

ST-R22U

Price \$200
Dimensions 2 3/16 H x 8 5/16 W x 6 7/8 D
Weight 4 lbs. 6 oz.
Quieting 18.2 dBf/37.9 dBf (50 dB)
S/N 73 dB/70 dB
Response 50 Hz to 10 kHz ± 0.5 dB/30 Hz to 15 kHz, +0.5, -1.5 dB
THD 0.15% (1 kHz)/0.25% (1 kHz)
Separation 45 dB, 1 kHz
Capture 1.5 dB
Selectivity 70 dB
Features Digital frequency display; 4-LED signal strength meter; hi-blend switch; AFC/muting switch; dual gate MOSFET; quartz oscillation; mini size

Models also available

AT-9300, \$210

AKAI

Akai America, Ltd.
2139 E. Del Amo Blvd.
Compton, Calif. 90220

AT-2650

Price \$300
Dimensions 5 7/10 H x 17 3/10 W x 14 1/2 D
Weight 16 lbs. 8 oz.
Quieting 14.7 dBf/35.8 dBf
S/N 75 dB
Response 20 Hz to 15 kHz, ± 1 , -3
THD 0.1% (1 kHz)
Separation 45 dB (1 kHz)
Subcarrier 65 dB
Capture 1.2 dB
Selectivity 80 dB

AT-2250

Price \$150
Dimensions 5 1/10 H x 15 W x 8 7/10 D
Weight 10 lbs. 5 oz.
Quieting 17.7 dBf/37.7 dBf
S/N 70 dB
Response 30 Hz to 15 kHz, ± 3 dB
THD 0.2% (1 kHz)
Separation 42 dB (1 kHz)
Subcarrier 40 dB
Capture 1.3 dB
Selectivity 65 dB

Models also available

AT-2450, \$225

ARMSTRONG

Armstrong Audio (U.S.A.), Inc.
Sindell Organization
11046 Santa Monica Blvd.
Los Angeles, Calif. 90025

623

Price \$395
Dimensions 3 1/4 H x 12 1/4 W x 11 1/4 D
Weight 7 lbs. 12 oz.
S/N 65 dB (mono)
Response 30 Hz to 14 kHz, ± 3 dB (mono)
THD 0.2% (1 kHz) (mono)
Separation 40 dB, 100 Hz to 8 kHz
Subcarrier 50 dB
Capture 1.75 dB
Selectivity 56 dB
Features Three FM and three AM preset switches

Models also available

624, \$295

CROWN

Crown International
1718 W. Mishawaka Road
Elkhart, Ind. 46514

FM-1

Price \$995
Dimensions 5 1/4 H x 19 W x 15 D
Weight 15 lbs. 8 oz.
Quieting 36 dBf at 50 dB (stereo)
S/N 65 dB at 65 dBf (stereo)
Response 30 Hz to 15 kHz ± 0.5 dB
THD 0.09% (stereo)
Separation 45 dB (1 kHz); 35 dB (10 kHz)
Subcarrier 65 dB
Capture 2 dB at 65 dBf
Selectivity 75 dB at 25 dBf
Features Sensitivity: 10-8 dBf; image response ratio: 114 dB spurious response ratios: 114 dB antenna Inputs: 300 ohms balanced; 750 ohms unbalanced

DENON

American Audioport, Inc.
1407 N. Providence Rd.
Columbia, Mo. 65291

TU-850

Price \$480
Dimensions 6 29/64 H x 17 5/64 W x 15 3/4 D
Weight 24 lbs. 5 oz.
Quieting 50 dBf/11.6 dBf
S/N 84 dB (mono)/82 dB (stereo)
Response 20 Hz to 15 kHz +0.2, -1.5
THD 0.06% (20 to 15 kHz)/0.05% (20 to 15 kHz)
Separation 50 dB, 1 kHz to 10 kHz
Subcarrier 80 dB
Capture 1.5 dB
Selectivity 65 dB
Features Multi-function meters; wide/narrow band; test tone

Models also available

TU-630, \$340

DYNACO

Dynaco, Inc.
P.O. Box 612
Needham, Mass. 02195

FM-30

Price \$300 (assembled)
Dimensions 4 1/4 H x 13 1/2 W x 9 D
Weight 11 lbs.
Quieting 19.2 dBf
S/N 65 dB
Response 20 Hz to 15 kHz ± 1 dB (mono)
THD 0.5% (1 kHz)/0.9%
Separation 30 dB, 50 Hz to 10 kHz
Subcarrier 50 dB
Capture 1.5 dB
Selectivity 65 dB

EDINBURGH WIRELESS CO.

Import Audio Ltd.
13430 Clayton Rd
St. Louis, Mo. 63131

SMT-2

Price \$600
Response 30 Hz to 15 kHz
THD 0.7% at 100% modulation; 0.2% at 30% modulation (stereo)
Capture 1.5 dB
Selectivity 60 dB
Features Eight preset buttons on front panel; no scale on front at all—stations are preset on back only; stereo and center-tuning LED on front panel

EUMIG

Eumig (U.S.A.), Inc.
Lake Success Business Park
225 Community Drive
Great Neck, N.Y. 11020

T-1000

Price \$795
Dimensions 19W
Quieting 12 dBf/36.1 dBf
S/N 75 dB/75 dB
Response 15 Hz to 16 kHz +0.5, -1 dB
THD 1% (1 kHz)/0.08% (1 kHz)
Separation 45/50 dB, 100 Hz to 10 kHz
Subcarrier 65 dB
Capture 0.8 dB
Selectivity 100 dB
Features Ten preset memory with Nicad battery for storage; 4-digit readout; push button up/down tuning; muting with adjustable threshold manual or auto tuning; narrow or wide band with switch

FISHER

Fisher Corp.
21314 Lassen St.
Chatsworth, Calif. 91311

FM-2421

Price \$449.95
Dimensions 3½H x 17 1/3W x 13D
Weight 15 lbs.
Quieting 13.2 dBf/35.9 dBf
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz ±1 dB
THD 0.1% (1 kHz)/0.15% (1 kHz)
Separation 46 dB (1 kHz); 36 dB (10 kHz)
Subcarrier 60/70 dB
Capture 0.8 dB
Selectivity 75 dB
Features Digital synthesizer; MPX filter; switchable IF bandwidth

Models also available

FM-2121, \$229.95

HARMAN KARDON

Harman Kardon
55 Ames Court
Plainview, N.Y. 11803

HK-500

Price \$279
Dimensions 5¾H x 16¾W x 12D
Weight 17 lbs.
S/N 75 dB
Response DC to 60 kHz ±1.5 dB/20 Hz to 15 kHz ±0.5 dB
THD 0.1% (1 kHz)
Separation 45 dB, DC to 1 kHz
Capture 1.3 dB
Selectivity 70 dB
Features Switchable de-emphasis for Dolby FM; variable FM muting; phase lock-loop; stereo threshold control

Models also available

Citation 18, \$449

HEATHKIT

Heath Co.
Benton Harbor, Mich. 49022

AJ-1219

Price \$120 (kit)
Dimensions 3½H x 13W x 11D
Weight 12 lbs.
Quieting 11.25 dBf (mono; 30 dB)
Separation 40 dB
Subcarrier 2 dB
Capture 2 dB
Selectivity 60 dB

HITACHI

Hitachi Sales Corp. of America
401 W. Artesia Blvd.
Compton, Calif. 90220

FT-8000

Price \$460
Dimensions 3 1/16H x 17 1/8W x 15 3/32D
Weight 13 lbs. 6 oz.
Quieting 15.7 dBf/37.2 dBf
S/N 72 dB/68 dB
Response 20 Hz to 15 kHz +0.5, -1.2 dB
Separation 50 dB, to 1 kHz
Subcarrier 68 dB
Selectivity 80 dB
Features FM digital synthesizer tuner; quartz crystal frequency base; digital frequency readout; clock function; programmable 6-station memory; all-electronic front end; 70 dB image rejection; 85 dB IF rejection

FT-440B

Price \$300
Dimensions 6 2/3H x 1¾W x 15 1/10D
Weight 15 lbs. 6 oz.
Quieting 16.1 dBf/37 dBf
S/N 76 dB/70 dB
Response 30 Hz to 15 kHz, ±1 dB
THD 0.3%
Separation 50 dB
Subcarrier 65 dB
Capture 1 dB
Selectivity 80 dB
Features Four-stage variable capacitor front end

Models also available

FT-5000, \$330; FT-4000, \$180

JVC

JVC America, Inc.
58-75 Queens Midtown
Expressway
Maspeth, N.Y. 11378

T-M1

Price \$500
Dimensions 3 11/16H x 9 1/16W x 10 9/16D
Weight 8 lbs. 3 oz.
Quieting 17.3 dBf
S/N 75 dB/72 dB
Response 30 Hz to 15 kHz, +0.3, -1 dB
THD 0.08% (1 Hz)/0.12% (1 Hz)
Separation 40 dB, 100 Hz to 10 kHz
Capture 1 dB
Selectivity 75 dB
Features Quartz synthesizer FM tuner; 5 preset FM stations; phase tracking loop detector; digital frequency readout with clock function

T-40P

Price \$370
Dimensions 4 5/16H x 16 9/16W x 11½
Weight 7 lbs.
Quieting 21.7 dBf/39.2 dBf (50 dB)
S/N 70 dB/65 dB
Response 20 Hz to 15 kHz, +0.5, -3 dB
THD 0.15% (1 Hz)/0.3% (1 Hz)
Separation 38 dB, 100 Hz to 10 kHz
Subcarrier 70 dB
Capture 1.5 dB

Selectivity 65 dB
Features Quartz-PLL frequency synthesizer; 8 preset FM/AM stations; direct readout digital frequency display

JT-V77

Price \$320
Dimensions 6¼H x 17¾W x 13½D
Weight 14 lbs. 4 oz.
Quieting 16.8 dBf/36.8 dBf
S/N 78 dB/72 dB
Response 20 Hz to 15 kHz, +0.5, -0.8 dB/same

THD 0.08% (1 kHz)/0.1% (1 kHz)
Separation 40 dB, 50 Hz to 10 kHz
Subcarrier 70 dB
Capture 1 dB
Selectivity 75 dB
Features Phase-tracking loop-detector; auto tuning hold

T-V3

Price \$140
Dimensions 3½H x 16 9/16W x 12 1/16D
Weight 7 lbs. 8 oz.
Quieting 17.2 dBf/38.3 dBf (50 dB)
S/N 70 dB/65 dB
THD 0.25% (1 Hz)/0.45% (1 Hz)
Separation 30 dB, 100 Hz to 10 kHz
Capture 1.5 dB
Selectivity 55 dB

Models also available

T-3030, \$650; T-X5, \$300; JT-V22, \$190; T-V5, \$180

KENWOOD

Kenwood Electronics, Inc.
75 Seaview Drive
Secaucus, N.J. 07094

KT-917

Price \$1,000
Dimensions 18½H x 6 11/32W x 18 7/32D
Weight 15 lbs.
Quieting 15.8 dBf/37.2 dBf
S/N 90 dB/84 dB
Response 10 Hz to 16 kHz, +0.2, -0.5 dB
THD 0.02% (100 Hz)/0.05% (10 kHz)
Separation 50 dB, 50 Hz to 10 kHz
Subcarrier 70 dB
Capture 0.8 dB
Selectivity 60 dB
Features Distortion-detecting loop tuning system; pulse-count detector

L-077 II

Price \$625
Dimensions 3 5/16H x 18 29/32W x 13 15/32D
Weight 17 lbs. 3 oz.
Quieting 14.7 dBf/37.2 dBf
S/N 84 dB/80 dB
Response 20 Hz to 15 kHz, +0, -1 dB
THD 0.06% (50 Hz)/0.7% (15 Hz)
Separation 45 dB, 50 Hz to 10 kHz
Subcarrier 70 dB
Capture 0.7 dB
Selectivity 100 dB
Features Pulse count detector

KT-615

Price \$270
Dimensions 17 10/32H x 6 6/32W x 15 27/32D
Weight 15 lbs. 13 oz.
Quieting 15.8 dBf/37.2 dBf
S/N 81 dB/78 dB
Response 30 Hz to 15 kHz, +0.2, -1.5 dB/
THD 0.05% (100 Hz)/0.065% (10 kHz)
Separation 40 dB, 50 Hz to 10 kHz
Subcarrier 65 dB
Capture 1 dB
Selectivity 54 dB
Features Pulse-count detector

KT-5500

Price \$175
Dimensions 14 31/32H x 5 1/2W x 11 7/16D
Weight 13 lbs. 6 oz.
Quieting 17.2 dBf/38.3 dBf
S/N 72 dB/68 dB
Response 30 Hz to 15 kHz, +0.2, -2 dB
THD 0.15% (1 Hz)/0.2% (1 kHz)
Separation 35 dB, 50 Hz to 15 kHz
Subcarrier 40 dB
Capture 1 dB
Selectivity 60 dB

Models also available

KT-815, \$440; KT-413, \$250; KT-313, \$179

LUX

Lux Audio of America, Ltd.
160 Dupont St.
Plainview, N.Y. 11803

5T-50

Price \$1,595
Dimensions 4H x 17 3/4W x 16D
Weight 19 lbs.
Quieting 13.2 dBf/36.1 dBf
S/N 70 dB (mono)
Response 30 Hz to 15 kHz, ± 1 dB
THD 0.08%/0.1% (1 kHz)
Separation 40 dB, 100 Hz to 10 kHz
Subcarrier 65 dB
Capture 1.1 dB
Selectivity 72 dB
Features Digital frequency synthesis; memory; Dolby; built-in 400 Hz test tone; 7-station memory; multipath detector switch

T-12

Price \$695
Dimensions 3H x 17 1/4W x 12 3/4D
Weight 15 lbs. 7 oz.
Quieting 16 dBf (mono)
S/N 80 dB (mono)
Response 20 Hz to 17 kHz, ± 0.5 dB/20 Hz to 17 kHz, ± 0.5 dB
THD 0.05% (1 kHz)/0.06% (1 kHz)
Separation 50 dB (1 kHz)
Capture 0.8 dB (wide); 2 dB (narrow)
Selectivity 60 dB
Features Automatic tuning locking system; IF bandwidth selector; multipath check switch; recording test tone; LED signal strength indicator

T-2

Price \$375
Quieting 14.2 dBf (mono)
S/N 75 dB (mono)
Response 30 Hz to 15 kHz, ± 1 dB
THD 0.2% (1 kHz)/0.3% (1 kHz)
Separation 46 dB (1 kHz)
Subcarrier 65 dB
Capture 1.5 dB
Selectivity 70 dB
Features LED signal-strength and center-tuning indicators; FM muting level control

Models also available

5T-10 Tuner, \$795; T-4 Tuner, \$495

MARANTZ

Marantz, Inc.
20525 Nordhoff St.
Chatsworth, Calif. 91311

ST-400

Price \$280
Dimensions 5 3/4H x 16 3/4W x 9 9/16D

Weight 11 lbs.
Quieting 13.9 dBf/36.8 dBf
S/N 78 dB/70 dB
Response 30 Hz to 15 kHz, +0.2, -1 dB/30 Hz to 15 kHz, +0.2, -1 dB
THD 0.15% (1 kHz)/0.25% (1 kHz)
Separation 45 dB (1 kHz)
Subcarrier 65 dB
Capture 1 dB
Selectivity 65 dB
Features Digital AM/FM frequency display; servo-lock fine tuning; FM center channel meter; AM/FM signal strength meter; Dolby de-emphasis network; PLL FM multiplex demodulator; MOSFET FM front end

Models also available

ST-300, \$225

MCS® SERIES

J.C. Penney
1301 Ave. of the Americas
New York, N.Y. 10019

3710

Price \$230
Dimensions 5 1/2H x 16 1/4W x 11 13/16D
Weight 26 lbs.
Quieting 14.8 dBf/37.3 dBf
S/N 75 dB/72 dB
Response 9 Hz to 16 kHz
THD 0.2%/0.25%
Separation 45 dB (1 kHz)
Capture 0.6 dB
Selectivity 70 dB
Features Muting switch; MPX filter; dual-gate MOSFET front end; quadrature detector

Models also available

3701, \$160

MERIDIAN

Anglo American Audio
P.O. Box 653
Buffalo, N.Y. 14240

104

Price \$555
Dimensions 2H x 5 1/2W x 12D
Weight 4 lbs.
S/N 67 dB
Response 15 Hz to 15 kHz, ± 0.5 dB
THD 0.1%
Separation 50 dB, 15 Hz to 15 kHz

MICRO CPU®

Draco Labs, Inc.
1005 Washington St.
Grafton, Wisc. 53024

Micro CPU

Price \$1,000
Dimensions 6 3/4H x 20W x 14 15/16D
Weight 34 lbs.
S/N 75 dB/82 dB
Response 20 Hz to 15 kHz, ± 0.5 dB 20 Hz to 15 kHz, ± 0.5 dB
THD 0.07% (1 kHz)/0.07% (1 kHz)
Separation 40 dB, 30 Hz to 15 kHz
Subcarrier 80 dB
Capture 0.5 dB
Selectivity 85 dB
Features Programmable station call letters; 6-section varactor front end; digital detector; laser tuning; auto scan; self-testing

MITSUBISHI

Melco Sales, Inc.
3030 E. Victoria St.
Compton, Calif. 90221

DA-F20

Price \$430
Dimensions 6 3/4H x 16 3/4W x 10 3/8D
Weight 14 lbs. 8 oz.
Quieting 19 dBf/39.2 dBf
S/N 80 dB/75 dB
Response 30 Hz to 15 kHz, ± 1 dB/same
THD 0.05% (1 kHz)/0.08% (1 kHz)
Separation 40 dB (10 kHz)
Subcarrier 70 dB
Capture 0.8 dB
Selectivity 75 dB/45 dB
Features Quartz-PLL synthesizing tuner; digital frequency display; recording-level-checking signal output; multipath output; selectivity switch

M-F01

Price \$340
Dimensions 2 3/4H x 10 5/8W x 9 3/4D
Weight 7 lbs. 11 oz.
Quieting 19.2 dBf/39.2 dBf
S/N 80 dB/77 dB
Response 30 Hz to 16 kHz, ± 1 dB
THD 0.08% (1 kHz)/0.1% (1 kHz)
Separation 40 dB, 1 kHz to 10 kHz
Subcarrier 70 dB
Capture 1 dB
Selectivity 70 dB
Features Micro-size; quartz-PLL synthesizer; LED signal-strength and tuning-lock indicators; record-level check signal; pilot cancel circuit

Models also available

DA-F10, \$300

NAD

NAD (U.S.A.) Inc.
New Acoustic Dimension
Mackintosh Lane
P.O. Box 529
Lincoln, Mass. 01773

4080

Price \$285
Dimensions 5 1/2H x 17 7/10W x 15 3/5D
Weight 24 lbs.
Quieting 14.8 dBf/36.1 dBf
S/N 74 dB/70 dB
Response 30 Hz to 15 kHz, ± 0.5 dB
THD 0.2% (1 kHz)/0.3% (1 kHz)
Separation 30 dB, 30 Hz to 15 kHz
Subcarrier 70 dB
Capture 1 dB
Selectivity 70 dB
Features Multipath meter

4020

Price \$175
Dimensions 3 4/5H x 16 1/2W x 9 1/2D
Weight 9 lbs. 5 oz.
Quieting 16 dBf/38 dBf
S/N 75 dB/70 dB
Response 30 Hz to 15 kHz, ± 0.5 dB
THD 0.2% (1 kHz)/0.3% (1 kHz)
Separation 32 dB, 30 Hz to 15 kHz
Subcarrier 70 dB
Capture 1.5 dB
Selectivity 62 dB
Features LED tuning indicators

Models also available

4030, \$220



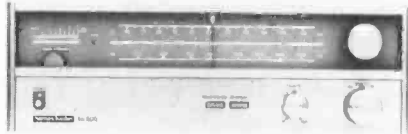
Akal AT-2650



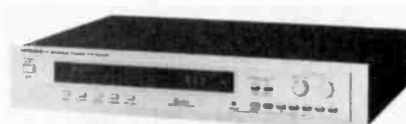
Crown FM-1



Denon TU-850



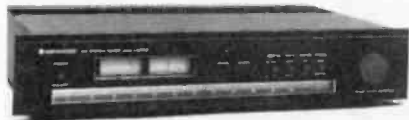
Harman Kardon hk-500



Hitachi FT-8000



JVC T-M1



Kenwood L-07T Mk II



Mitsubishi M-F01



NAD 4020



Onkyo T-909



Phase Linear 5100



Pioneer TX-9800



Revox B-760



Sansul TU-919



Sanyo T-55



Scott 570T



Teac TX-300

adjustable FM muting threshold; 25-microsecond Dolby de-emphasis; fixed and variable output level

NAKAMICHI
Nakamichi USA Corp.
1101 Colorado Ave.
Santa Monica, Calif. 90401

NIKKO
Nikko Audio
16270 Raymer St.
Van Nuys, Calif. 91406

430
Price \$440
Dimensions 3¼H x 16W x 9D
Weight 11 lbs.
Quieting 17.3 dBf/37.3 dBf
S/N 70 dB/68 dB
Response 30 Hz to 15 kHz, ±1 dB (mono)
THD 0.06% (1 kHz)/0.09% (1 kHz)
Separation 50 dB (1 kHz)
Subcarrier 75 dB
Capture 1.5 dB
Selectivity 90 dB
Features Optional Dolby FM circuit board available at \$44

Gamma V
Price \$700
Dimensions 2½H x 19W x 13D
Weight 13 lbs. 3 oz.
Quieting 13.2 dBf/34.8 dBf
S/N 81 dB/75 dB
Response 50 Hz to 15 kHz, +0.2, -0.8 dB/20 Hz to 18 kHz, +0.2, -1.5 dB
THD 0.04% (1 kHz)/0.06% (1 kHz)
Separation 48 dB, 100 Hz to 10 kHz
Subcarrier 65 dB
Capture 1 dB
Selectivity 80 dB
Features LED digital station frequency read-out; automatic and manual electronic tuning with 6-station electronic preset; selectable IF stage and

NT-790
Price \$180
Dimensions 3¾H x 16½W x 13D
Weight 10 lbs. 14 oz.
Quieting 20 dBf/35 dBf
S/N 72 dB/60 dB
Response 30 Hz to 15 kHz, ±2 dB
THD 0.2% (1 kHz)/0.5% (1 kHz)
Separation 30 dB, 50 Hz to 10 kHz
Subcarrier 45 dB
Capture 1.5 dB
Selectivity 55 dB
Features Quadrature FM detector; PLL dual gate MOSFET FM; FM muting; high blend; LED signal strength and center tuning indicators

Models also available
Gamma I, \$400; NT-890, \$220

ONKYO
Onkyo U.S.A. Corp.
 42-07 20th Ave.
 Long Island City, N.Y. 11105

T-909

Price \$950
Dimensions 3¼H x 17¾W x 13 15/16D
Weight 13 lbs.
Quieting 14.7 dBf/36 dBf
S/N 80 dB/74 dB
Response 30 Hz to 16 kHz, +0.5, -2 dB
THD 0.08% (1 kHz)/0.15% (1 kHz)
Separation 40 dB, 100 Hz to 10 kHz
Subcarrier 70 dB
Capture 1.5 dB
Selectivity 80 dB
Features Quartz-controlled digital synthesized FM tuner, 7 preset-buttons; gold-plated output terminals

T-4090

Price \$339.95
Dimensions 4 15/16H x 16½W x 15¾D
Weight 13 lbs.
Quieting 14.7 dBf/36 dBf
S/N 76 dB/68 dB
Response 30 Hz to 15 kHz, +0.5, -1.5 dB
THD 0.1%/0.25%
Separation 35 dB, 70 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.3 dB
Selectivity 70 dB
Features Quartz lock; human touch sensor; LED function readout

Models also available

T-4040, \$229.95

OPTONICA

Sharp Electronics Corp.
 10 Keystone Place
 Paramus, N.J. 07652

ST-7405

Price \$400
Dimensions 2 9/10H x 16 9/10W x 15D
Weight 13 lbs. 8 oz.
Quieting 9.8 dBf
S/N 75 dB/70 dB
Response 35 Hz to 15 kHz ±1.5 dB/35 Hz to 15 kHz ±1.5 dB
THD 0.2% (1 kHz)/0.3% (1 kHz)
Separation 50 dB, 1 kHz
Capture 1.2 dB
Selectivity 80 dB
Features Opto lock tuning; digital frequency display; hi-blend; FM muting; multipath monitor switch; variable output; IF band selector with indicator; pilot canceller

ST-4201

Price \$200
Dimensions 5¾H x 17¾W x 10¾D
Weight 12 lbs.
Quieting 20.2 dBf/38.2 dBf
S/N 72 dB/65 dB
Response 30 Hz to 15 kHz, ±1.5 dB/30 Hz to 15 kHz, ±1.5 dB
THD 0.2% (1 kHz)/0.3% (1 kHz)
Separation 45 dB (1 kHz)
Subcarrier 51 dB
Capture 1.2 dB
Selectivity 65 dB
Features Air-check calibrator; hi-blend; muting switch

Models also available

ST-4405, \$250

PHASE LINEAR

Phase Linear Corp.
 20121 48th Ave., W.
 Lynnwood, Wash. 98036

5100 Series Two

Price \$449.95
Dimensions 3½H x 19W x 12D
Weight 10 lbs.
Quieting 15.2 dBf/37.5 dBf
S/N 75 dB/80 dB
Response 20 Hz to 15 kHz, +0.2, -0.5 dB
THD 0.05% (1 kHz)
Separation 40 dB, 50 Hz to 10 kHz
Subcarrier 75 dB
Capture 1.0 dB
Selectivity 60 dB
Features Digital PLL synthesized AM/FM; 6-station memory; AM/FM auto/manual tuning

Models also available

5000 Series Two, \$580

PHILIPS

Philips High Fidelity Laboratories
 1700 Magnavox Way
 Fort Wayne, Ind. 46804

AH-673

Price \$530
Dimensions 15½H x 18W x 13½D
Weight 25 lbs.
Quieting 11.7 dBf/33.2 dBf
S/N 72 dB
Response 20 Hz to 15 kHz
THD 0.09%/0.1%
Separation 40 dB, 100 Hz to 10 kHz
Subcarrier 65 dB
Capture 1 dB
Selectivity 110 dB
Features Multipath indicator; wideband AM; also available with black front panel as AH-6731 at \$550

Models also available

AH-185 Tuner, \$330

PIONEER

U. S. Pioneer Electronics Corp.
 85 Oxford Drive
 Moonachie, N.J. 07074

TX-9800

Price \$450
Dimensions 6½H x 17 11/16W x 15¾D
Weight 20 lbs. 8 oz.
Quieting 13.2 dBf/36.1 dBf
S/N 83 dB/79 dB
Response 20 Hz to 15 kHz, +0.2, -0.5 dB
THD 0.05% (100 Hz)/0.1% (100 Hz)
Separation 40 dB, 20 Hz to 10 kHz
Capture 0.8 dB
Selectivity 30 dB
Features Quartz locked tuning; 11 2/5" long dial scale with station memory markers

TX-7800

Price \$350
Dimensions 6½H x 17 11/16W x 15¾D
Weight 18 lbs. 5 oz.
Quieting 15.5 dBf/37 dBf
S/N 83 dB/79 dB
Response 20 Hz to 15 kHz, +0.2, -0.5 dB
THD 0.08% (100 Hz)/0.1% (100 Hz)
Separation 35 dB, 20 Hz to 10 kHz
Subcarrier 70 dB
Capture 1 dB
Selectivity 75 dB
Features Servo-lock touch sensor

Models also available

TX-6800, \$200

REVOX

Studer Revox America, Inc.
 1819 Broadway
 Nashville, Tenn. 37203

B-760

Price \$1,649
Dimensions 6H x 17¾W x 13¾D
Weight 26 lbs. 7 oz.
Quieting 12.8 dBf/35.1 dBf (50 dB)
S/N 75 dB (stereo)
Response 30 to 15 kHz, ±1 dB (stereo)
THD 0.15% (1 kHz)
Separation 42 dB (1 kHz)
Subcarrier 65 dB
Capture 0.9 dB
Selectivity 95 dB
Features Digital frequency synthesizer (25 kHz incremented), quartz-controlled to within 50 PPM accuracy; 15-station memory, pushbutton programmable; Dolby B card option; adjustable muting; multipath scope output; seven-digit LED display of station frequency and station number; non-volatile CMOS memory

ROGERS

Reference Monitor International, Inc.
 2330 C Camino Vida Roble
 Carlsbad, Calif. 92008

T-75 Tuner

Price \$360
Dimensions 4½H x 14¼W x 11¼D
Weight 7 lbs.

ROTEL

Rotel of America, Inc.
 1055 Saw Mill River Rd.
 Ardsley, N.Y. 10502

RT-2100

Price \$640
Dimensions 5¾H x 19¼W x 13 ½D
Weight 32 lbs.
Quieting 9.3 dBf/36 dBf
S/N 80 dB/75 dB
Response 30 Hz to 15 kHz, ±0.2 dB/(mono)
THD 0.05% (stereo/wide); 0.15% (stereo/narrow)
Separation 47 dB (1 kHz)
Subcarrier 80 dB
Capture 0.8 dB
Selectivity 80 dB
Features Quartz phase lock; digital station readout; MOSFET front end; LED signal/multipath indicator; rack-mountable; Dolby

Models also available

RT-2000, \$460

SAE

Scientific Audio Electronics,

Inc.

701 E. Macy St.

Los Angeles, Calif. 90012

8000

Price \$700
Dimensions 5¼H x 19W x 11D
Weight 20 lbs.
Quieting 9.3 dBf/17.3 dBf
S/N 75 dB/70 dB
Response 20 Hz to 15 Hz, ±0.5 dB/same
THD 0.15%/0.2% (1 kHz)
Separation 35 dB, 20 Hz to 15 kHz
Subcarrier 65 dB
Capture 1.5 dB
Selectivity 120 dB
Features Digital readout; muting MOSFET input

SAE TWO SERIES

T-14

Price \$550
Dimensions 3½H x 18¼W x 14 3/10D
Weight 12 lbs.
Quieting 17.3 dBf/34.8 dBf
S/N 76 dB/70 dB
Response 30 Hz to 15 kHz, +0.5, -2 dB/30 Hz to 15 kHz, +0.5, -2 dB
THD 0.08% (1 kHz)/0.15% (1 kHz)
Separation 40 dB, 50 Hz to 10 kHz
Subcarrier 65 dB
Capture 1 dB
Selectivity 70 dB
Features Digital readout; quartz-lock tuning; synthesized touch tuning; 5-station AM/FM memory; wide/narrow IF

Models also available

3200, \$400; T-7, \$375; T-3U, \$275

SANSUI

Sansui Electronics Corp.

1250 Valley Brook Ave.

Lyndhurst, N.J. 07071

TU-X1

Price \$980
Dimensions 7 13/16H x 18 15/16W x 17¼D
Weight 35 lbs. 11 oz.
Quieting 12.5 dBf/34 dBf
S/N 86 dB/83 dB
Response 20 Hz to 15 kHz, +0.2, -0.5 dB/20 Hz to 15 kHz, +0.2, -0.5 dB
THD 0.02% (1 kHz)/0.03% (1 kHz)
Separation 50 dB (1 kHz)
Subcarrier 70 dB
Capture 1 dB
Selectivity 80 dB
Features Completely separate tuning, metering (4), and dual IF bandwidth selection for both FM and AM; selectable AM beat canceller; flat group delay RF and IF amplifiers; 7-gang tuning capacitor; record calibration tone

TU-919

Price \$585
Dimensions 6¾H x 19W x 16½D
Weight 21 lbs. 9 oz.
Quieting 12.5 dBf/34 dBf
S/N 82 dB/76 dB

Response 30 Hz to 15 kHz, +0.2, -0.5 dB/30 Hz to 15 kHz, +0.2, -0.5 dB
THD 0.04% (1 kHz)/0.06% (1 kHz)
Separation 50 dB (1 kHz)
Subcarrier 60 dB
Capture 0.9 dB
Selectivity 80 dB
Features Digitally quartz-locked tuning and dual selectable IF bandwidths on both AM and FM; FM noise filter; record calibration tone; matte black with detachable rack-mounting handles

TU-717

Price \$370
Dimensions 6¾H x 19W x 16½D
Weight 20 lbs. 5 oz.
Quieting 12.5 dBf/34 dBf
S/N 81 dB/78 dB
Response 30 Hz to 15 kHz, +0.2, -1 dB/same
THD 0.06%/0.07% (1 kHz)
Separation 36 dB, 30 Hz to 15 kHz; 48 dB (1 kHz)
Subcarrier 68 dB
Capture 1 dB
Selectivity 80 dB
Features Selectivity switch; Dolby calibration tone; rack-mountable by detachable handles; MPX noise canceller

Models also available

TU-517, \$260; TU-417, \$275; TU-317, \$240; TU-217, \$190

SANYO PLUS

Sanyo Electric, Inc.

Consumer Electronics Div.

1200 W. Artesia Blvd.

Compton, Calif. 90220

PLUS T-55

Price \$349.95
Dimensions 1¾H x 17¼W x 10¾D
Quieting 14.7 dBf/36.3 dBf
S/N 45 dB
Response 20 Hz to 16 kHz, +1, -2 dB
THD 0.15% (100 Hz)/0.3% (100 Hz)
Separation 42 dB (1 kHz to 10 kHz)
Capture 1.8/1.2 dB
Selectivity 35 dB
Features Quartz-locked frequency synthesizer tuning; electronic frequency display; 6+6 pushbutton tuning; narrow/wide IF band selector; preset tuning and memory on; memory setting; black finish with rack-mount handles

Models also available

PLUS T-35, \$299.95

SCOTT

H. H. Scott, Inc.

20 Commerce Way

Woburn, Mass. 01801

570T

Price \$250
Dimensions 5¼H x 17W x 11¼D
Weight 13 lbs.
Quieting 16.1 dBf/35.6 dBf
S/N 75 dB/70 dB
Response 25 Hz to 15 kHz, ±2 dB (mono)
THD 0.1% (65 dBf)
Separation 50 dB (1 kHz)
Subcarrier 65 dB
Capture 1 dB

Selectivity 70 dB

Features Switchable multiplex filter; muting switch; signal-strength and center-channel tuning meters

Models also available

530T, \$200

SERIES 20

Series 20

20 Jewell St.

Moonachie, N.J. 07074

F-26 Reference Quartz

Price \$1,000
Dimensions 3¼H x 16½W x 14D
Weight 16 lbs. 12 oz.
Quieting 13.2 dBf/35.7 dBf
S/N 87 dB/84 dB
Response 20 Hz to 15 kHz, +0.1, -0.3 dB (mono)
THD 0.03% (1 kHz)/0.05% (1 kHz)
Separation 40 dB, 20 Hz to 15 kHz
Subcarrier 75 dB
Capture 7.0 dB (narrow IF band)
Selectivity 80 dB (narrow IF band)
Features Quartz-sampling locked tuning; auto wide/narrow switching

Models also available

F-28, \$690

SHERWOOD

Sherwood Electronic Labs

4300 N. California Ave.

Chicago, Ill. 60618

S-32 CP

Price \$290
Dimensions 5¼H x 17W x 12¾D
Weight 14 lbs. 8 oz.
Quieting 9.84 dBf/1.7 uV
S/N 68 dB/74 dB
Response 20 Hz to 15 kHz, +1, -2 dB/same
THD 0.1% (100 Hz)/0.1% (1 kHz)
Separation 40 dB, 20 Hz to 10 kHz
Subcarrier 65 dB
Capture 1 dB
Selectivity 70 dB
Features Certified performance (notarized certificate with each unit shows exact performance); linear phase IF; switchable de-emphasis; multiplex noise filter; twin tuning meters

SONY

Sony Industries

9 West 57th St.

New York, N.Y. 10019

ST-A7B

Price \$900
Dimensions 6¾H x 18¼W x 16¾D
Weight 31 lbs.
Quieting 14.2 dBf/34.6 dBf (50 dB)
S/N 80 dB/75 dB
Response 20 Hz to 15 kHz, +0.2, -0.5 dB
THD 0.04% (1 kHz)/0.08% (1 kHz)
Separation 40 dB, 100 Hz to 10 kHz; 50 dB, 100 Hz to 1 kHz
Subcarrier 70 dB
Capture 0.8 dB
Selectivity 50 dB (narrow)

Features Quartz-crystal frequency synthesis with digital and analogue readout; switchable 25 microsecond de-emphasis; IF bandwidth selector; adjustable muting

ST-J60

Price \$400
Dimensions 3¼H x 17W x 12¼D
Weight 8 lbs. 10 oz.
Quieting 16.1 dBf/37.3 dBf (50 dB)
S/N 77 dB/72 dB
Response 30 Hz to 15 kHz, +0.2, -0.5 dB
THD 0.06% (1 kHz)/0.08% (1 kHz)
Separation 45 dB, 100 Hz to 10 kHz
Subcarrier 70 dB
Capture 1 dB
Selectivity 85 dB
Features Quartz frequency synthesis tuner; varactor diode memory; 3-way tuning flexibility; built-in 400 Hz calibration tone

ST-A3A

Price \$200
Dimensions 5¾H x 17½W x 12 13/16D
Weight 12 lbs. 5 oz.
Quieting 16.4 dBf/37.9 dBf
S/N 70 dB/65 dB
Response 20 Hz to 15 kHz, +1, -2 dB
THD 0.2% (1 kHz)/0.5% (1 kHz)
Separation 40 dB (1 kHz)
Subcarrier 50 dB
Capture 1 dB
Selectivity 50 dB

Models also available

ST-P7J, \$500; ST-A6B, \$310; ST-A30, \$220

SPECTRO ACOUSTICS

Spectro Acoustics Co.

**3200 George Washington Way
Richland, Wash. 99352**

220R

Price \$500
Dimensions 3½H x 19W x 9D
Weight 14 lbs.
Quieting 50 dBf/34 dBf (75 ohms)
S/N 70 dB/65 dB
Response 30 Hz to 15 kHz ±1 dB
THD 0.15% (1 kHz)
Separation 32 dB, 50 Hz to 10 kHz
Subcarrier 80 dB
Capture 1.5 dB
Selectivity 75 dB
Features High, low, and tuned tuning lights; built-in digital clock in tuner display; 12V auxiliary connector on back; fixed and variable outputs

TEAC

**Teac Corp. of America
7733 Telegraph Rd.
Montebello, Calif. 90640**

TX-300

Price \$250
Dimensions 5½H x 16 1/5W x 11 3/10D
Weight 13 lbs. 4 oz.
Quieting 17 dBf/37 dBf (50 dB)
S/N 72 dB/60 dB
Response 30 Hz to 15 kHz ±1 dB
THD 0.2%/0.2% at 65 dBf
Separation 45 dB to 1 kHz
Subcarrier 55 dB
Capture 1.5 dB at 65 dBf
Selectivity 65 dB at 45 dBf

Features PLL multiplex demodulator; IC high blend; muting; input and tuning indicator

Models also available

TX-500, N/A

TECHNICS

**Technics by Panasonic
One Panasonic Way
Secaucus, N.J. 07094**

ST-9038

Price \$600
Dimensions 1¾H x 18¾W x 11D
Weight 11 lbs. 3 oz.
Quieting 18.1 dBf/38.1 dBf
S/N 75 dB/72 dB
Response 20 Hz to 18 kHz, +0.1, -0.5 dB/same
THD 0.1%/0.15% (1 kHz)
Separation 45 dB (1 kHz)
Subcarrier 65 dB
Capture 1 dB
Selectivity 75 dB
Features Flat group-delay filter; pink-noise generator; automatic tuning; quartz-synthesizer digital readout; matched companion programmer unit SH-9038 is available

ST-C01

Price \$260
Dimensions 1 15/16H x 11 11/16W x 10 1/32D
Weight 6 lbs. 6 oz.
Quieting 17 dBf/38.3 dBf (50 dB)
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz, +0.5, -1.5
THD 0.1% (1 kHz)/0.15% (1 kHz)
Separation 45 dB (1 kHz); 35 dB (10 kHz)
Subcarrier -40 dB
Capture 1 dB
Selectivity 75 dB
Features Micro size; active servo-lock tuning; LED indicators replace tuning meters

ST-8044

Price \$260
Dimensions 5 19/32H x 16 15/16W x 10D
Weight 9 lbs. 5 oz.
Quieting 17 dBf/38.6 dBf (50 dB)
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz
THD 0.15% (1 kHz)/0.3% (1 kHz)
Separation 45 dB
Subcarrier -40 dB
Capture 1 dB
Selectivity 75 dB
Features Signal-strength and center-channel LED indicator array; "active servo-lock" circuit automatically tunes for minimum distortion

Models also available

ST-9030 Tuner, \$460; ST-8077, \$280; ST-8011, \$170

TOSHIBA

**Toshiba America, Inc.
280 Park Ave.
New York, N.Y. 10017**

F15

Price \$359.95
Dimensions 10 1/10H x 2 1/10W x 7 7/10D
Weight 4 lbs. 13 oz.
S/N 72 dB/68 dB
Response 20 Hz to 15 kHz, +0.2, -0.8
THD 0.15%
Separation 45 dB

Capture 1 dB
Selectivity 75 dB

ST-665

Price \$299.95
Dimensions 16 3/5H x 2 3/10W x 11 1/4D
Weight 7 lbs.
S/N 72 dB/68 dB
Response 20 Hz to 15 kHz +0.2, -0.8 dB
Capture 1 dB
Selectivity 80 dB

YAMAHA

**Yamaha International Corp.
6600 Orangethorpe Ave.
Buena Park, Calif. 90620**

T-2

Price \$750
Dimensions 2¾H x 17½W x 13¾D
Weight 15 lbs.
Quieting 13.2 dBf/34.2 dBf
S/N 88 dB/85 dB
Response 30 Hz to 10 kHz, +0.3, -0.5 dB/10 Hz to 18 kHz, ±0.3 dB
THD 0.03% (100 Hz)/0.05% (100 Hz)
Separation 55 dB (1 kHz)
Subcarrier 72 dB
Capture 1 dB
Selectivity 100 dB

CT-1010

Price \$385
Dimensions 6¾H x 18¾W x 16D
Weight 17 lbs.
Quieting 15.3 dBf/37.2 dBf
S/N 80 dB/75 dB
Response 50 Hz to 10 kHz, ±0.3 dB/30 Hz to 15 kHz, ±0.4 dB
THD 0.07%/0.09% (100 Hz)
Separation 45 dB, 50 Hz to 10 kHz
Subcarrier 70 dB
Capture 1 dB
Selectivity 85 dB
Features Recording-calibration signal; output-level control

CT-810

Price \$285
Dimensions 6¼H x 17½W x 13¾D
Weight 13 lbs.
Quieting 15.3 dBf/37.2 dBf
S/N 80 dB/75 dB
Response 50 Hz to 10 kHz, ±0.3 dB/30 Hz to 15 kHz, ±0.4 dB
THD 0.08%/0.15% (100 Hz)
Separation 45 dB, 50 Hz to 10 kHz
Subcarrier 60 dB
Capture 1 dB
Selectivity 80 dB
Features Recording-calibration signal; output-level control

CT-610II

Price \$225
Dimensions 6¼H x 17¼W x 13¼D
Weight 14 lbs.
Quieting 15.3 dBf/37.2 dBf
S/N 80 dB/75 dB
Response 50 Hz to 10 kHz, ±0.5 dB/30 Hz to 15 kHz, +0.5, -1 dB
THD 0.07% (100 Hz)/0.10% (100 Hz)
Separation 45 dB, 50 Hz to 10 kHz
Subcarrier 45 dB
Capture 1 dB
Selectivity 85 dB
Features Recording calibration signal; output level control

Models also available

T-1, \$365; CT-410II, \$185

Receivers

ADVENT

Advent Corp.
195 Albany St.
Cambridge, Mass. 02139

300

Price \$289
Dimensions 3½H x 15¾W x 9¼D
Weight 11 lbs.
Quieting 16 dBf/35 dBf
S/N 73 dB/70 dB
Response 30 Hz to 15 kHz ±1 dB
THD 0.15%/0.2% (400 Hz)
Separation 28 dB, 30 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.6 dB
Selectivity 70 dB
Power 15 watts (11¼ dBW) continuous from 40 Hz to 20 kHz at no more than 0.5% THD

IM 0.15% at 15 watts
Response 20 Hz to 20 kHz, ±0.5 dB
Sensitivity 2.0 mV (phono); 100 mV (high level)

Overload 100 mV (phono)
S/N 80 dB (phono) re 10 mV input; 80 dB (aux) re 100 mV input (A-weighted)

Phono EQ 20 Hz to 20 kHz, ±0.5 dB
Bass ±10 dB at 100 Hz
Treble ±10 dB at 10 kHz
Features No impedance interaction on phono input; infrasonic filter on phono input

AIWA

Aiwa America, Inc.
35 Oxford Drive
Moonachie, N.J. 07074

AX-7800V

Price \$590
Dimensions 4¼H x 20 1/16W x 17 5/16D
Weight 23 lbs. 3 oz.
Quieting 17.2 dBf/37.2 dBf (50 dB)
S/N 75 dB/70 dB
THD 0.1% (1 kHz)/0.2% (1kHz)
Separation 45 dB, (1 kHz)
Selectivity 75 dB
Power 60 watts (17.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.04% THD
Response 10 Hz to 50 kHz ±1 dB
S/N 80 dB (phono); 75 dB (tuner); 95 dB (aux)
Phono EQ 30 Hz to 15 kHz ±0.5 dB
Features FM synthesized tuning; 6-station preset controls; digital frequency readout; 9-point LED peak-indicator; selectable bass and treble frequency turnover

Models also available

AX-7700V, \$300; AX-7300, \$210

AKAI

Akai America, Ltd.
2139 E. Del Amo Blvd.
P.O. Box 6010
Compton, Calif. 90224

AA-R50

Price \$450
S/N 75 dB
Response 50 Hz to 15 kHz, ±1 dB
THD 0.1% (1 kHz)
Separation 45 dB (11 kHz)
Capture 1 dB
Selectivity 75 dB
Power 62 watts (17.75 dBW) continuous from 10 Hz to 40 kHz into 8 ohms at no more than 0.04% THD

Response 5 Hz to 50 kHz, ±1 dB
Sensitivity 3 mV (phono); 150 mV (high level)
Overload 250 mV (phono)
S/N 75 dB (phono); 90 dB (aux)
Phono EQ 30 Hz to 15 kHz, ±1 dB

AA-R40

Price \$400
S/N 72 dB
Response 50 Hz to 15 kHz, ±1 dB
THD 0.2% (1 kHz)
Separation 42 dB (1 kHz)
Capture 1 dB
Selectivity 70 dB
Power 50 watts (17 dBW) continuous from 10 Hz to 40 kHz into 8 ohms at no more than 0.04% THD

Response 5 Hz to 50 kHz, ±1 dB
Sensitivity 3 mV (phono); 150 mV (high level)
Overload 250 mV (phono)
S/N 75 dB (phono); 90 dB (aux)
Phono EQ 30 Hz to 15 kHz, ±1 dB

Models also available

AA-R30, \$300; AA-R20, \$250

ARMSTRONG

Armstrong Audio (U.S.A.), Inc.
Sindell Organization
11046 Santa Monica Blvd.
Los Angeles, Calif. 90025

626

Price \$625
Dimensions 3¼H x 19¾W x 11¼D
Weight 15 lbs.
S/N 65 dB
Response 30 Hz to 14 kHz, ±3 dB (mono)
THD 0.2% (1 kHz) (mono)
Separation 40 dB, 100 Hz to 8 Hz
Subcarrier 50 dB
Capture 1.75 dB
Selectivity 56 dB
Power 40 watts (16 dBW) continuous from 15 Hz to 45 kHz at no more than 0.08% THD
IM 0.08% at 40 watts

Response 20 Hz to 20 kHz, ±1 dB
Sensitivity 3/6 mV (phono); 120 mV (high level)

Overload 75/150 mV (phono)
S/N 65 dB (phono); 65 dB (tuner); 65 dB (aux) (unweighted)

Phono EQ 20 Hz to 20 kHz, ±1 dB
Bass ±15 dB at 70 Hz
Treble ±13 dB at 14 kHz
High filter 6 or 12 dB/octave above 3 or 5 kHz

Low filter 12 dB/octave below 20 Hz
Features Three (each) preset FM/AM stations

Models also available

625, \$545

AUDIO PRO

Intersearch, Inc.
4720-Q Boston Way
Lanham, Md. 20801

TA-150

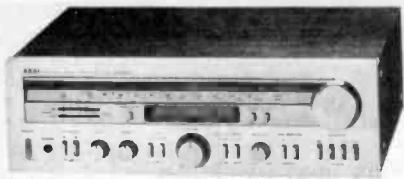
Price \$1,135
Dimensions 4½H x 19½W x 10¼D
Weight 25 lbs.
Quieting 15 dBf/30 dBf
S/N 70 dB/65 dB
Response 30 Hz to 15 kHz, ±1.5 dB/30 Hz to 15 kHz, ±1.5 dB
THD 0.2% (1 kHz)/0.3% (1 kHz)
Separation 35 dB, 60 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.5 dB
Selectivity 75 dB
Power 70 watts (18.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD

IM 0.1% at 70 watts
Response 20 Hz to 100 kHz, ±0.5 dB
Sensitivity 0.30 mV (phono)
Overload 150 mV (phono)
S/N 70 dB (phono); 80 dB (aux)
Phono EQ 20 Hz to 20 kHz, ±0.5 dB
Bass ±14 dB at 100 Hz
Treble ±14 dB at 10 kHz
High filter 6 dB/octave above 9 kHz
Low filter 6 dB/octave below 40 Hz; 18 dB/octave below 16 Hz

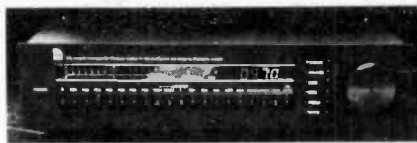
Features All electronic receiver with computer control; one knob controls all variable functions — volume, balance, bass, midrange, treble, tuning; 4-digit frequency readout counts actual tuner oscillator frequency against crystal clock; also available as TPA-150 "receiver" at \$995 without power amplifier but with headphone amplifier

BANG & OLUFSEN

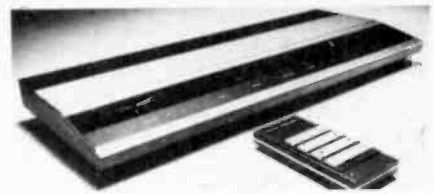
Bang & Olufsen of America, Inc.
515 Busse Road
Elk Grove Village, Ill. 60007



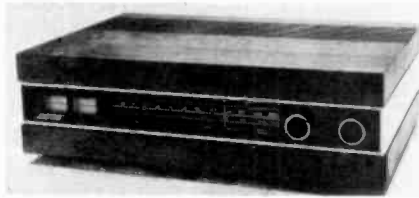
Akai AA-R40



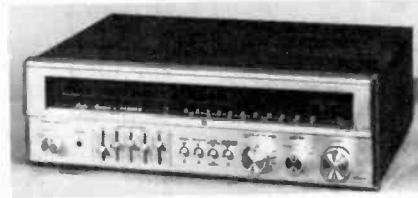
Audio Pro TA-150



B&O 2400



Bose Spatial Control



Fisher RS-2002

Beomaster 4400

Price \$850
Dimensions 3 $\frac{3}{4}$ "H x 22 $\frac{5}{8}$ "W x 11"D
Weight 22 lbs.
Quieting 18 dBf/38 dBf
S/N 70 dB/67 dB
Response 30 Hz to 15 kHz, ± 1.5 dB/same
THD 0.7%/0.7%
Separation 40 dB (1 kHz)
Subcarrier 100 dB
Capture 4 dB
Selectivity 58 dB
Power 70 watts (18.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD (4-ohm load)
IM 0.1% at 70 watts
Response 20 Hz to 35 kHz, ± 1.5 dB
Sensitivity 2.2 mV (phono); 200 mV (high level)
Overload 80 mV (phono)
S/N 60 dB (phono); 65 dB (aux) (unweighted re 70 watts)
Phono EQ N/A
Bass ± 12 dB at 40 Hz
Treble ± 12 dB at 12.5 kHz
High filter 12 dB/octave above 7 kHz
Low filter 12 dB/octave below 60 Hz
Features Six preset FM stations; varactor tuning; overload indicator; ambience recovery for rear speakers

Beomaster 2400

Price \$650
Dimensions 2 $\frac{1}{2}$ "H x 24 $\frac{1}{4}$ "W x 9 $\frac{3}{4}$ "D
Weight 16 lbs. 12 oz.
Quieting 18.5 dBf/38.9 dBf
S/N 70 dB/66 dB
Response 30 Hz to 15 kHz, ± 1.5 dB/same
THD 0.7%/0.5% (1 kHz)
Separation 35 dB (1 kHz)
Subcarrier 50 dB
Capture 4.5 dB
Selectivity 58 dB
Power 30 watts (14.8 dBW) continuous from 20 Hz to 20 kHz at no more than 0.2% THD (4-ohm load)
IM 0.15% at 30 watts
Response 20 Hz to 40 kHz, ± 1.5 dB
Sensitivity 3.0 mV (phono); 220 mV (high level)
S/N 60 dB (phono); 65 dB (aux)
Bass ± 18 dB at 40 Hz
Treble ± 15 dB at 12.5 kHz
Features Remote-control operation and can remotely control Beogram 4004 turntable

Models also available

Beomaster 1900, \$550

BOSE

Bose Corp.
 100 Mountain Rd.
 Framingham, Mass. 01701

Spatial Control[®]

Price \$799
Dimensions 6 $\frac{5}{8}$ "H x 20 $\frac{1}{2}$ "W x 16 $\frac{3}{8}$ "D
Weight 36 lbs. 8 oz.
Quieting 16.11 dBf/36.11 dBf
S/N 70 dB/65 dB (65 dBf)
Response 30 Hz to 15 kHz, $\pm .6$ dB/30 Hz to 15 kHz, ± 1.0 dB
THD 0.1%/0.25%
Separation 45 dB (1 kHz)
Capture 1.8 dB
Selectivity 70 dB
Power 100 watts (20 dBW) continuous from 20 Hz to 20 kHz at no more than 0.09% THD
IM 0.09%
Response 20 Hz to 20 kHz, ± 0.5 dB
Sensitivity 2.0 mV (phono); 200 mV (high level)
Overload 145 mV (phono)
S/N 90 dB (phono); 83 dB (tuner); 83 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.3 dB
Features Spatial slide control allows 901 speaker owners to vary spaciousness of sound image from narrow to wide; 4 power amps, base 901 equalizer, and special source and room compensation controls included

Models also available

550, \$349

CALIBRE CBS Retail Stores

1301 65th St.
 Emeryville, Calif. 94608

240

Price \$375
Dimensions 3 $\frac{1}{2}$ "H x 17 $\frac{3}{4}$ "W x 12 $\frac{1}{4}$ "D
Weight 24 lbs. 8 oz.
Quieting 14.2 dBf/37.2 dBf
S/N 72 dB/70 dB
Response 20 Hz to 20 kHz, ± 0.5 dB (mono)
THD 0.1% (1 kHz)
Separation 50 dB (1 kHz)
Subcarrier 55 dB
Capture 1.5 dB
Selectivity 72 dB
Power 42 watts (16.25 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 1 watt
Response 20 Hz to 20 kHz, ± 0.5 dB
Sensitivity 1.9 mV (phono); 250 mV (high level)
Overload 210 mV (phono)
S/N 80 dB (phono); 72 dB (tuner); 90 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.5 dB

Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 8 kHz
Features Dolby FM; pilot phase canceller; digital LED tuning; independent tape dubbing

Models also available

225, \$280; 215, \$230

CONCEPT

Concept
 1601 W. Glenlake Ave.
 Itasca, Ill. 60143

4.5 D

Price \$490
Dimensions 6"H x 18 $\frac{3}{8}$ "W x 15"D
Weight 30 lbs.
Quieting 14.1 dBf/36.8 dBf
S/N 68 dB/72 dB
Response 30 Hz to 15 kHz, ± 0.5 dB/same
THD 0.1% (1 kHz)/0.1% (1 kHz)
Separation 48 dB (1 kHz)
Subcarrier 65 dB
Capture 1.1 dB
Selectivity 78 dB
Power 45 watts (16.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.04% at 1 watt
Response 20 Hz to 20 kHz, ± 0.2 dB
Sensitivity 1.9 mV (phono); 160 mV (high level)
Overload 220 mV (phono)
S/N 82 dB (phono); 72 dB (tuner); 85 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.2 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 7 kHz
Features Four-gang tuner; dual meters; dual-color muting LED; DC amp

Models also available

12.0D, \$900; 7.5D, \$620

CRITERION

Lafayette Radio Electronics Corp.
 111 Jericho Turnpike
 Syosset, N.Y. 11791

Mk VII

Price \$369.99
Dimensions 5 $\frac{1}{2}$ "H x 19 $\frac{1}{2}$ "W x 14 $\frac{1}{8}$ "D

Weight 26 lbs.
S/N 67 dB (mono)
Response 30 Hz to 15 kHz, +0.5, -2 dB (mono)
THD 0.4% (1 kHz) (mono)
Separation 40 dB (1 kHz)
Subcarrier 60 dB
Capture 1.25 dB
Selectivity 80 dB
Power 75 watts (18.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD

IM 0.1% at 75 watts
Response 5 Hz to 40 kHz, ± 3 dB
Sensitivity 5 mV (phono); 2.5 mV (high level)
Overload 150 mV (phono)
S/N 70 dB (phono); 67 dB (tuner); 90 dB (aux)
Bass ± 10 dB at 125 Hz
Treble ± 10 dB at 10 kHz
High filter 10 dB/octave above 10 kHz
Low filter 10 dB/octave below 40 Hz
Features Tape-to-tape dubbing; triple tone controls; dual tape monitors; dual tuning meters; connections for 3 sets of speaker systems; stereo/mono switch

Mk V

Price \$279.99
Dimensions 6H x 17 $\frac{3}{4}$ W x 11 $\frac{1}{4}$ D
Weight 29 lbs.
S/N 65 dB (mono)
Response 30 Hz to 15 kHz, +0.5, -2 dB (mono)
THD 0.3% (1 kHz) (mono)
Separation 40 dB (1 kHz)
Subcarrier 60 dB
Capture 1.5 dB
Selectivity 70 dB
Power 44 watts (16.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.3% THD

IM 0.3% at 44 watts
Response 10 Hz to 35 kHz, ± 3 dB
Sensitivity 4 mV (phono)
Overload 180 mV (phono)
S/N 60 dB (phono); 65 dB (tuner); 70 dB (aux)
Bass ± 12 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 10 dB/octave above 10 kHz
Features Two tape monitors; dual tuning meters; connections for 2 sets of speaker systems; stereo/mono switch

Models also available

Mk III, \$159.99; Mk I, \$109.99

FISHER

Fisher Corp.
 21314 Lassen St.
 Chatsworth, Calif. 91311

RS-2015

Price \$900
Dimensions 7 $\frac{1}{4}$ H x 23W x 17 $\frac{1}{4}$ D
Weight 52 lbs.
Quieting 13.2 dBf/35.9 dBf
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz, ± 0.5 dB/same
THD 0.1%/0.2%
Separation 50 dB (1 kHz); 40 dB at 100 Hz & 10 kHz
Subcarrier 70 dB
Capture 0.8 dB
Selectivity 80 dB
Power 150 watts (21.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.05% at 150 watts
Response 20 Hz to 20 kHz, ± 0.5 dB

Sensitivity 2 mV (phono); 150 mV (high level)
Overload 220 mV (phono)
S/N 78 dB (phono); 75 dB (tuner); 95 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Bass ± 12 dB at 50 Hz/250 Hz/1 kHz
Treble ± 12 dB at 4.5 kHz/15 kHz (5-band graphic equalizer)
Low filter 18 dB/octave
Features "Panel Logic" 12-function control system; power meters; Dolby de-emphasis switch; FM multiplex

RS-1058

Price \$550
Dimensions 6 $\frac{3}{4}$ H x 20 $\frac{3}{4}$ W x 14 $\frac{1}{4}$ D
Weight 32 lbs. 4 oz.
Quieting 13.2 dBf/35.9 dBf
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz, ± 1 dB/same
THD 0.1%/0.25%
Separation 45 dB (1 kHz)
Subcarrier 70 dB
Capture 0.8 dB
Selectivity 75 dB
Power 90 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD

IM 0.1% at 90 watts
Response 20 Hz to 20 kHz, ± 0.5 dB
Sensitivity 2 mV (phono); 150 mV (high level)
Overload 180 mV (phono)
S/N 76 dB (phono); 90 dB (aux) (A-weighted re 90 watts)
Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 5 kHz; -6 dB
Low filter 6 dB/octave below 60 Hz; -6 dB
Features Midrange control

RS-2004

Price \$429.95
Dimensions 5 $\frac{1}{2}$ H x 19 $\frac{1}{4}$ W x 14 $\frac{1}{2}$ D
Weight 28 lbs. 5 oz.
Quieting 14.2 dBf/36.8 dBf
S/N 70 dB/66 dB
Response 20 Hz to 15 kHz, ± 0.5 dB/same
THD 0.15%/0.2%
Separation 45 dB (1 kHz); 36 dB at 100 Hz & 10 kHz
Subcarrier 70 dB
Capture 1 dB
Selectivity 68 dB
Power 45 watts (16.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD

IM 0.1% at 45 watts
Response 20 Hz to 20 kHz, ± 0.5 dB
Sensitivity 2 mV (phono)
Overload 150 mV (phono)
S/N 76 dB (phono); 70 dB (tuner); 90 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Bass ± 10 dB at 50 Hz/250 Hz/1 kHz
Treble ± 10 dB at 4.5 kHz/15 kHz (5-band graphic equalizer)
Features Equalizer defeat switch; "Panel Logic" control system; Dolby de-emphasis; Dartington power-pack output stage

RS-2002

Price \$279.95
Dimensions 5 $\frac{1}{2}$ H x 19 $\frac{1}{4}$ W x 14 $\frac{1}{2}$ D
Weight 17 lbs. 14 oz.
Quieting 14.2 dBf/36.8 dBf
S/N 70 dB/66 dB
Response 20 Hz to 15 kHz ± 0.5 dB
THD 0.15% (1 kHz)/0.2% (1 kHz)
Separation 45 dB (1 kHz); 36 dB (10 kHz)
Subcarrier 65/70 dB
Capture 1 dB
Selectivity 68 dB
Power 20 watts (13 dBW) continuous from 20 Hz to 20 kHz at no more than 0.09% THD

IM 0.09% at 20 watts
Sensitivity 2 mV (phono); 150 mV (high level)
Overload 140 mV (phono)
S/N 76 dB (phono); 70 dB (tuner); 90 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.5 dB

Models also available

RS-2010, \$700; RS-2007, \$550;
 RS-2003, \$379.95; RS-1035A,
 \$299.95; MC-2500, \$229.95

HARMAN KARDON

Harman Kardon
 55 Ames Court
 Plainview, N.Y. 11803

hk-670

Price \$569
Dimensions 6 $\frac{3}{4}$ H x 18 $\frac{1}{2}$ W x 14D
Weight 36 lbs.
S/N 75 dB
Response DC Hz to 60 kHz, ± 1.5 dB/20 Hz to 15 kHz, ± 0.5 dB
THD 0.09% (1 kHz)
Separation 50 dB, DC to 1 kHz
Capture 1.3 dB
Selectivity 75 dB
Power 60 watts (17.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD

IM 0.06% at 60 watts
Response 1 Hz to 140 kHz, $\pm 1\frac{1}{2}$ dB
Sensitivity 2.2 mV (phono); 130 mV (high level)
Overload 225 mV (phono)
S/N 88 dB (phono); 100 dB (tuner); 100 dB (aux)

Phono EQ 20 Hz to 20 kHz ± 5 dB
Bass ± 12 dB at 20 Hz
Treble ± 12 dB at 20 kHz
High filter 12 dB/octave above 6 kHz
Low filter 12 dB/octave below 18 Hz
Features Patented signal strength, multipath, quieting (SSQ)[®] meter; electronic speaker protection; DC coupled; tone defeat; 2 tape copy and tape monitor positions; 25-microsecond de-emphasis for Dolby broadcasts; infrasonic filter

hk-560

Price \$399
Dimensions 5 $\frac{1}{2}$ H x 16 $\frac{1}{2}$ W x 12 $\frac{1}{2}$ D
Weight 25 lbs.
Quieting 75 dB
Response DC to 60 kHz ± 1.5 dB/20 Hz to 15 kHz ± 0.5 dB
THD 0.1% (1 kHz)
Separation 45 dB, DC to 1 kHz
Capture 1.3 dB
Selectivity 70 dB
Power 40 watts (16 dBW) continuous from 20 Hz to 20 kHz at no more than 0.04% THD

IM 0.06% at 40 watts
Response 1 Hz to 120 kHz $\pm 1\frac{1}{2}$ dB
Sensitivity 2.2 mV (phono); 175 mV (high level)
Overload 120 mV (phono)
S/N 88 dB (phono); 100 dB (tuner); 100 dB (aux)

Phono EQ 20 Hz to 20 kHz ± 1 dB
Bass ± 12 dB at 20 Hz
Treble ± 12 dB at 20 kHz
Low filter 12 dB/octave below 18 Hz
Features Circuit breaker speaker protection; DC coupled; tone defeat; 2 tape monitor positions; switchable FM mute; 4-stage phono preamp

Models also available

hk-450, \$319; hk-340, \$219

HEATHKIT

Heath Co.
 Benton Harbor, Mich. 49022

AR-1515

Price \$600 (kit)
Dimensions 6 3/16H x 21 1/2W x 15D
Weight 36 lbs.
Quieting 10.3 dBf (mono); 30 dBf
S/N 70 dB (mono)
Response 20 Hz to 15 kHz, ± 1 dB (mono)
THD 0.3%/0.35%
Separation 40 dB (midband)
Subcarrier 60 dB
Capture 1.3 dB
Selectivity 100 dB
Power 70 watts (18.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.08% THD
IM 0.08% at 70 watts
Response 8 Hz to 45 kHz, ± 0.5 dB
Sensitivity 0.24 mV (phono); 24 mV (high level)
Overload 100 mV (phono)
S/N 65 dB (phono) (re 2 mV input); 80 dB (aux) (re 200 mV input)
Features Digital readout; Dolby FM module accessory (\$40)

AR-1429

Price \$350 (kit)
Dimensions 4 3/4H x 20W x 13 1/2D
Weight 32 lbs.
S/N 65 dB
Response 20 Hz to 15 kHz, ± 1 dB
THD 0.1% (20 Hz)/0.1% (20 kHz)
Separation 40 dB (1 kHz)
Capture 1.8 dB
Selectivity 65 dB
Power 35 watts (15.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
Response 5 Hz to 45 kHz, ± 1 dB
Sensitivity 2 mV (phono); 200 mV (high level)
Overload 90 mV (phono)
S/N 65 dB (phono); 75 dB (tuner)
Phono EQ 30 Hz to 20 kHz, ± 1 dB
Features Optional Dolby module (\$40)

Models also available

AR-1219, \$200 (kit)

HITACHI

Hitachi Sales Corp. of America
401 W. Artesia Blvd.
Compton, Calif. 90220

SR-2004

Price \$1,095
Dimensions 7 1/4H x 22 3/4W x 17 1/2D
Weight 56 lbs. 3 oz.
Quieting 12.5 dBf/36 dBf
S/N 75 dB/70 dB
Response 30 Hz to 15 kHz, ± 1 dB (mono)
THD 0.15%/0.25% (100 Hz)
Separation 50 dB (1 kHz)
Subcarrier 70 dB
Capture 1 dB
Selectivity 85 dB
Power 200 watts (23 dBW) continuous from 20 Hz to 20 kHz at no more than 0.08% THD
IM 0.08% at 200 watts
Response 30 Hz to 15 kHz, ± 1 dB
Sensitivity 0.18 mV (phono); 11 mV (high level)
Overload 500 mV (phono)
S/N 75 dB (phono); 90 dB (aux) (A-weighted)
Phono EQ 30 Hz to 15 kHz, ± 0.2 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 12 dB/octave above 10 kHz
Low filter 12 dB/octave below 150 Hz
Features Class G; midrange control

SR-804

Price \$449.95
Dimensions 5 3/4H x 18 1/2W x 14 1/4D
Weight 22 lbs. 5 oz.
Quieting 17 dBf/37 dBf
S/N 74 dB/68 dB
Response 30 Hz to 15 kHz, ± 1 dB (mono)
THD 0.2%/0.3% (100 Hz)
Separation 45 dB (1 kHz)
Subcarrier 50 dB
Capture 1 dB
Selectivity 80 dB
Power 50 watts (17 dBW) continuous from 20 Hz to 20 kHz at no more than 0.09% THD
IM 0.05% at 25 watts
Response 10 Hz to 40 kHz, ± 0.5 dB
Sensitivity 0.35 mV (phono); 21 mV (high level)
Overload 100 mV (phono)
S/N 75 dB (phono); 87 dB (aux) (A-weighted)
Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 10 kHz
Low filter 6 dB/octave below 50 Hz
Features Class G

SR-4010

Price \$250
Dimensions 4 1/8H x 17 1/8W x 10 15/16D
Weight 11 lbs. 6 oz.
Quieting 17 dBf/37 dBf
S/N 75 dB/70 dB
Response 30 Hz to 12 kHz, ± 2 dB
Separation 40 dB (1 kHz)
Subcarrier 50 dB
Capture 1 dB
Selectivity 76 dB
Power 25 watts (14 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
Response 15 Hz to 30 kHz, ± 2 dB
Sensitivity 3 mV (phono); 50K ohms (high level)
Overload 130 mV (phono)
S/N 75 dB (phono); 92 dB (tape)
Bass ± 10 dB at 100 Hz
Treble ± 8 dB at 10 kHz
Low filter 15 dB/octave below 10 Hz
Features IC/FET low-distortion circuitry; LED tuning/power level metering

Models also available

SR-904, \$630; SR-504, \$280; SR-2010, \$200

JVC

JVC America, Inc.
58-75 Queens Midtown
Expressway
Maspeth, N.Y. 11378

JR-S501

Price \$730
Dimensions 6 1/2H x 22W x 17D
Weight 46 lbs. 3 oz.
Quieting 14 dBf/37.2 dBf
S/N 78 dB/70 dB
Response 20 Hz to 15 kHz, +0.3, -0.8 dB/20 Hz to 15 kHz, +0.3, -0.8 dB
0.08%/0.1% (1 kHz)
THD 0.08%/0.1% (1 kHz)
Separation 45 dB, 50 Hz to 10 kHz
Capture 1 dB
Selectivity 80 dB
Power 120 watts (20.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.01% at 120 watts
Response 5 Hz to 40 kHz, ± 1 dB

Sensitivity 2.5 mV (phono); 250 mV (high level)
Overload 250 mV (phono)
S/N 75 dB (phono); 95 dB (tuner); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Features DC power amp; 2 power meters; 5-position SEA equalizer; FM pilot signal canceller

JR-S201

Price \$390
Dimensions 6 1/2H x 19 3/4W x 15D
Weight 23 lbs. 5 oz.
Quieting 14.8 dBf/37.2 dBf
S/N 78 dB/70 dB
Response 20 Hz to 15 kHz, +0.3, -0.8 dB/same
THD 0.08%/0.1% (1 kHz)
Separation 40 dB, 50 Hz to 10 kHz
Capture 1 dB
Selectivity 80 dB
Power 35 watts (15.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.01% at 35 watts
Response 5 Hz to 40 kHz, +0, -1 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 180 mV (phono)
S/N 75 dB (phono); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Features DC power amp; 2 power meters; 5-position SEA equalizer

R-57

Price \$300
Dimensions 5 7/8H x 17 11/16W x 13 13/16D
Weight 18 lbs. 11 oz.
Quieting 14.8 dBf/38.3 dBf (50 dB)
S/N 82 dB/70 dB
Response 30 Hz to 15 kHz, +0.5 -1 dB
THD 0.15% (1 Hz)/0.3% (1 Hz)
Separation 35 dB (50 Hz to 10 kHz)
Capture 1 dB
Selectivity 65 dB
Power 50 watts (17 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% at 50 watts
Response 15 Hz to 50 kHz, ± 1 dB
Sensitivity 2.5 mV (phono); 170 mV (high level)
Overload 140 mV (phono)
S/N 82 dB (phono); 100 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass ± 8 dB at 100 Hz
Treble ± 8 dB at 10 kHz

Models also available

JR-S401, \$630; JR-S301, \$500; R-55, \$220

KENWOOD

Kenwood Electronics, Inc.
75 Seaview Drive
Secaucus, N.J. 07094

KR-9050

Price \$1,150
Dimensions 6 31/32H x 23 11/16W x 18 5/16D
Weight 52 lbs. 14 oz.
Quieting 14.1 dBf/36.1 dBf
S/N 83 dB/76 dB
Response 20 Hz to 15 kHz ± 0.5 dB
THD 0.07%/0.08%
Separation 40 dB, 50 Hz to 10 kHz
Subcarrier 73 dB
Capture 1 dB
Selectivity 60 dB

Power 200 watts (23 dBW) continuous from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.0045% at 200 watts
Response DC to 280 kHz, -3 dB
Sensitivity 2.5 mV (phono); 200 mV (high level)
Overload 260 mV (phono)
S/N 91 dB (phono); 110 dB (tuner); 110 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass ± 12 dB at 100 Hz
Treble ± 12 dB at 10 kHz
High filter 6 dB/octave above 5 kHz
Low filter 6 dB/octave below 18 Hz
Features High-speed DC amplifier

KR-7050

Price \$660
Dimensions 6 $\frac{3}{4}$ "H x 21 $\frac{1}{2}$ "W x 16 3/16"D
Quieting 16.1 dBf/37.9 dBf
S/N 83 dB/75 dB
Response 30 Hz to 15 kHz +5, -1 dB
THD 0.8%/0.09%
Separation 40 dB, 50 Hz to 10 kHz
Subcarrier 70 dB
Capture 1 dB
Selectivity 60 dB
Power 80 watts (19 dBW) continuous from 20 Hz to 20 kHz at no more than 0.02% THD

IM 0.007% at 80 watts
Response DC Hz to 320 kHz, -3 dB
Sensitivity 2.5 mV (phono); 200 mV (high level)
Overload 200 mV (phono)
S/N 91 dB (phono); 108 dB (tuner); 108 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass ± 12 dB at 100 Hz
Treble ± 12 dB at 10 kHz
High filter 6 dB/octave above 5 kHz
Low filter 6 dB/octave below 18 Hz
Features High-speed DC amplifier

KR-4010

Price \$330
Dimensions 5 15/32"H x 18 17/32"W x 14 3/32"D
Weight 18 lbs. 5 oz.
Quieting 16.1 dBf/37.9 dBf
S/N 76 dB/70 dB
Response 30 Hz to 15 kHz, +0.5, -2 dB
THD 0.08%/0.05%
Separation 40 dB, 100 Hz to 10 kHz
Subcarrier 50 dB
Capture 1 dB
Selectivity 50 dB
Power 35 watts (15.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD

IM 0.02% at 35 watts
Response 5 Hz to 170 kHz, +0.5, -3 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 150 mV (phono)
S/N 86 dB (phono); 104 dB (tuner); 104 dB (aux)
Phono EQ 20 Hz to 20 kHz ± 0.3 dB
Bass ± 8 dB at 100 Hz
Treble ± 8 dB at 10 kHz
High filter 6 dB/octave above 3 kHz
Features DC amplifier

Models also available

KR-8050, \$820; KR-6050, \$499;
 KR-5010, \$399; KR-3010, \$280

KIRKSAETER

Saga Hi-Fi, Inc.
 398 South Pickett St.
 Alexandria, Va. 22304

Moderator 50-75

Price \$1,000
Dimensions 5 $\frac{1}{4}$ "H x 19 $\frac{1}{8}$ "W x 12 $\frac{1}{4}$ "D
Weight 29 lbs.
Quieting 13 dBf/35 dBf
S/N 74 dB/70 dB
Response 20 Hz to 16 kHz, ± 3 dB
THD 15% (1 kHz)/2% (1 kHz)
Separation 40 dB, 20 Hz to 12 kHz
Subcarrier 60 dB
Capture 1.5 dB
Selectivity 90 dB
Power 45 watts (16.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.025% THD

IM 0.008% at 45 watts
Response 2 Hz to 120 kHz, ± 3 dB
Sensitivity 1.5 mV (phono); 36 mV (high level)
Overload 70/170 mV (phono)
S/N 75 dB (phono); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz ± 0.2 dB
Bass ± 12 dB at 20 Hz
Treble ± 12 dB at 20 kHz
High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 80 Hz
Features Phono blend; two phono inputs; 5 FM pre-tuning keys; tape copy; midrange control ± 6 dB at 1 kHz; presence control; tone defeat; ambience for rear speakers; audio out jacks; decoder out; preamp in; main amp out; connects 3 speaker pairs

LAFAYETTE

Lafayette Radio Electronics Corp.
 111 Jericho Turnpike
 Syosset, N.Y. 11791

LR-120DB

Price \$549.99
Dimensions 7"H x 21 $\frac{1}{2}$ "W x 17 $\frac{1}{4}$ "D
Weight 42 lbs.
Quieting 14.1 dBf/36.8 dBf
S/N 70 dB (mono)
Response 30 Hz to 15 kHz, ± 1.5 dB (mono)
THD 0.15%/0.3% (1 kHz)
Separation 45 dB (1 kHz)
Capture 1.3 dB
Selectivity 80 dB
Power 120 watts (20.8 dBW) continuous from 20 Hz to 20 kHz at no more than 0.09% THD

IM 0.09% at 120 watts
Response 15 Hz to 40 kHz, ± 1 dB
Sensitivity 2.5 mV (phono); 5 mV (high level)
Overload 150 mV (phono)
S/N 70 dB (phono); 70 dB (tuner); 90 dB (aux)
Bass ± 12 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 3 dB/octave above 12 kHz
Low filter 3 dB/octave below 15 Hz
Features Adjustable FM muting; Dolby FM; frequency turnovers for bass and midrange controls; dual power meters; dual tuning meters; connections for 3 sets of speaker systems; 3-position phono sensitivity switch; dual tape monitors; two headphone jacks; hi-blend; dual range loudness contour; mic mixing; overload protection

LR-9090

Price \$499.99
Dimensions 6 $\frac{1}{2}$ "H x 21"W x 15 $\frac{1}{2}$ "D
Weight 47 lbs.
Quieting 16.5 dBf/39.3 dBf
S/N 72 dB/67 dB
THD 0.2%/0.4% (1 kHz)
Separation 40 dB (1 kHz)
Subcarrier 60 dB
Capture 1.25 dB
Selectivity 80 dB

Power 90 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
Sensitivity 0.26 mV (phono); 16 mV (high level)
Overload 180 mV (phono)
S/N 65 dB (phono); 67 dB (tuner); 80 dB (aux)
Bass ± 12 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 12 dB/octave above 7 kHz
Low filter 12 dB/octave below 40 Hz
Features Built-in FM Dolby; switchable phono sensitivity (figures given for high); two choices of bass and treble turnover; two choices of high- and low-filter cutoffs; dual tuning meters; connections for 3 sets of speakers; dual tape monitors; triple tone controls; audio and FM mute; two headphone jacks; overload protection

LR-5555A

Price \$349.99
Dimensions 6 $\frac{3}{4}$ "H x 20"W x 13 $\frac{1}{2}$ "D
Weight 24 lbs.
Quieting 17.2 dBf/39 dBf
S/N 72 dB/67 dB
Response 30 Hz to 15 kHz, ± 1.25 dB (mono)
THD 0.2%/0.4% (1 kHz)
Separation 40 dB (1 kHz)
Subcarrier 85 dB
Capture 1.25 dB
Selectivity 80 dB
Power 55 watts (17.4 dBW) continuous from 20 Hz to 20 kHz at no more than 0.3% THD

Sensitivity 0.34 mV (phono); 20 mV (high level)
Overload 150 mV (phono)
S/N 65 dB (phono); 67 dB (tuner); 80 dB (aux)
Bass ± 12 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 10 kHz
Features Switchable phono sensitivity (figures given for high); midrange control; two choices of bass and treble turnover; two choices of high- and low-filter cutoffs; dual tuning meters; connections for 3 sets of speaker systems; dual tape monitors; audio and FM mute; overload protection

Models also available

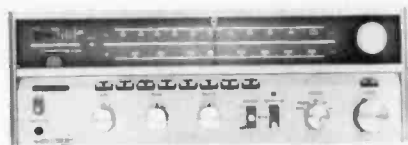
LR-3030A, \$259.99; LR-2020A, \$169.99; LR-1515A, \$139.99

LUX

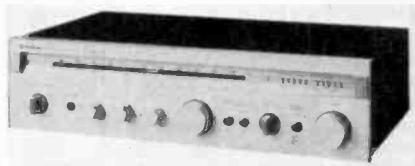
Lux Audio of America, Ltd.
 160 Dupont St.
 Plainview, N.Y. 11803

R-1120

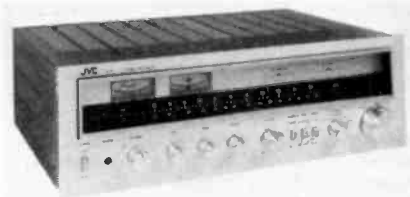
Price \$995
Dimensions 7 $\frac{1}{8}$ "H x 19 $\frac{1}{4}$ "W x 16 $\frac{1}{4}$ "D
Quieting 14.1 dBf/36.8 dBf
S/N 74 dB/70 dB
Response 30 Hz to 15 kHz, ± 1 dB
THD 0.08%/0.1% (1 kHz)
Separation 42 dB, 100 Hz to 6 kHz
Subcarrier 70 dB
Capture 1.3 dB
Selectivity 80 dB
Power 120 watts (20.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% at 120 watts
Response 15 Hz to 70 kHz, ± 1 dB
Sensitivity 0.24 mV (phono); 15 mV (high level)
Overload 160 mV (phono)
S/N 75 dB (phono); 95 dB (aux) (A-weighted re 120 watts)



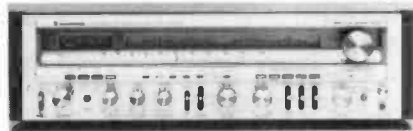
Herman Kardon hk-670



Hitachi SR-4010



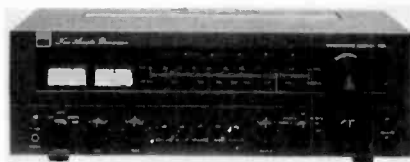
JVC R-57



Kenwood KR-9050



Mitsubishi DA-C20



NAD 7060

Phono EQ ± 0.3 dB
Bass ± 11 dB at 100 Hz
Treble ± 13 dB at 10 kHz
High filter 12 dB/octave above 7 kHz
Low filter 12 dB/octave below 15 Hz or 70 Hz
Features Dual turnover tone controls; LED peak indicators; electrostatic speaker outputs; closed locked-loop tuning

R-1050

Price \$595
Dimensions 7 $\frac{1}{2}$ "H x 19 $\frac{1}{4}$ "W x 14"D
Weight 34 lbs.
Quieting 14.1 dBf/36.8 dBf
S/N 74 dB/70 dB
Response 30 Hz to 15 kHz, ± 1 dB
THD 0.1%/0.2% (1 kHz)
Separation 40 dB, 100 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.3 dB
Selectivity 70 dB
Power 55 watts (17.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 55 watts
Response 10 Hz to 50 kHz, ± 1 dB
Sensitivity 0.34 mV (phono); 20 mV (high level)
Overload 150 mV (phono)
S/N 66 dB (phono); 86 dB (aux) (unweighted re 55 watts)
Phono EQ ± 0.3 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 7 kHz
Low filter 6 dB/octave below 70 Hz
Features LED peak indicators; phase-linear IF

R-1040

Price \$495
Dimensions 6 $\frac{1}{2}$ "H x 19"W x 14"D
Weight 30 lbs. 13 oz.
Quieting 18.2 dBf/39.8 dBf
S/N 74 dB/70 dB
Response 30 Hz to 15 kHz, ± 0.75 dB
THD 0.2%/0.3% (1 kHz)
Separation 40 dB, 100 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.2 dB
Selectivity 55 dB
Power 40 watts (16 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 40 watts
Response 10 Hz to 50 kHz, ± 1 dB
Sensitivity 0.40 mV (phono); 24 mV (high level)
Overload 150 mV (phono)
S/N 69 dB (phono); 89 dB (aux) (unweighted re 40 watts)
Phono EQ ± 0.3 dB
Bass ± 10 dB at 100 Hz

Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 7 kHz
Low filter 6 dB/octave below 70 Hz
Features Phase-linear IF; LED peak indicators

Models also available

R-1070 Receiver, \$795; R-1030 Receiver, \$395

MARANTZ

Marantz Co., Inc.
20525 Nordhoff St.
Chatsworth, Calif. 91311

2600

Price \$1,600
Dimensions 7H x 19 $\frac{1}{4}$ W x 17 $\frac{1}{2}$ D
Weight 60 lbs. 5 oz.
Quieting 12.1 dBf/33.2 dBf
S/N 82 dB/75 dB
Response 30 Hz to 15 kHz, +0.2 dB, -1 dB/same
THD 0.1%/0.2% (1 kHz)
Separation 50 dB (1 kHz)
Subcarrier 75 dB
Capture 1 dB
Selectivity 85 dB
Power 400 watts (26 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD at 4 ohms
IM 0.05% at 400 watts
Response 10 Hz to 60 kHz, ± 1 dB
Sensitivity 1.8 mV (phono); 180 mV (high level)
Overload 200 mV (phono)
S/N 83 dB (phono); 98 dB (aux) (A-weighted re 400 watts)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 18 dB/octave above 9 kHz
Low filter 18 dB/octave below 15 Hz
Features Two-inch oscilloscope; midrange control; switchable bass and treble turnover; front-panel dubbing jacks; tape-to-tape duplicating while listening to independent source; optional Dolby module; quartz-locked tuning

2330B

Price \$800
Dimensions 5 $\frac{1}{2}$ "H x 19 $\frac{1}{4}$ "W x 15 $\frac{1}{4}$ "D
Weight 49 lbs. 8 oz.
Quieting 13.2 dBf/36 dBf
S/N 78 dB/70 dB
Response 30 Hz to 15 kHz, +0.2 dB, -1 dB/30 Hz to 15 kHz, ± 1.5 dB
THD 0.1%/0.25% (1 kHz)
Separation 50 dB (1 kHz)
Subcarrier 70 dB

Capture 1 dB
Selectivity 80 dB
Power 180 watts (22.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD at 4 ohms
IM 0.1% at 180 watts
Response 10 Hz to 60 kHz, ± 1 dB
Sensitivity 1.8 mV (phono); 180 mV (high level)
Overload 200 mV (phono)
S/N 83 dB (phono); 98 dB (aux) (A-weighted re 180 watts)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 18 dB/octave above 9 kHz
Low filter 18 dB/octave below 15 Hz
Features Midrange control; switchable bass and treble turnover; front-panel dubbing jacks; tape-to-tape duplicating while listening to independent source; optional Dolby module

SR-6000

Price \$550
Dimensions 5 $\frac{1}{2}$ "H x 18 $\frac{3}{4}$ "W x 13 $\frac{3}{4}$ "D
Weight 21 lbs. 12 oz.
Quieting 13.2 dBf/36.1 dBf
S/N 80 dB/72 dB
Response 30 Hz to 15 kHz, +0.5, -1 dB/30 Hz to 15 kHz, +0.5, -1 dB
THD 0.15% (1 kHz)/0.2% (1 kHz)
Separation 45 dB (1 kHz)
Subcarrier 65 dB
Capture 1 dB
Selectivity 65 dB
Power 88 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 88 watts
Response 10 Hz to 70 kHz, ± 1.0 dB
Sensitivity 2.7 mV (phono); 160 mV (high level)
Overload 225 mV (phono)
S/N 90 dB (phono); 98 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 8 kHz
Low filter 6 dB/octave below 20 Hz
Features Dual LED power meters; true power DC amplifier; midrange controls; dual tuning meters; walnut grain vinyl cabinet; independent record mode selector with two tape monitors

SR-1000

Price \$265
Dimensions 5 $\frac{1}{2}$ "H x 18 $\frac{3}{4}$ "W x 12 $\frac{3}{4}$ "D
Weight 14 lbs. 5 oz.
Quieting 14.9 dBf/37.7 dBf
S/N 75 dB/68 dB
Response 30 Hz to 15 kHz, +0.5, -1 dB/30 Hz to 15 kHz, +0.5, -1 dB
THD 0.15% (1 kHz)/0.3% (1 kHz)
Separation 45 dB (1 kHz)
Subcarrier 60 dB

Capture 1 dB
Selectivity 60 dB
Power 25 watts (14 dBW) continuous from 20 Hz to 20 kHz at no more than 0.2% THD
IM 0.2% at 25 watts
Response 15 Hz to 40 kHz, ± 1.0 dB
Sensitivity 2.7 mV (phono); 160 mV (high lev)
Overload 130 mV (phono)
S/N 84 dB (phono); 96 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.75 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz

Models also available

2385 Receiver, \$1,000; SR-4000, \$400; SR-2000, \$325

MCS® SERIES

J.C. Penney

1301 Ave. of the Americas
 New York, N.Y. 10019

3125

Price \$900
Dimensions 8 3/16H x 19 11/16W x 17 3/8D
Weight 65 lbs.
Quieting 3 μ V/8 dBf/5 μ V/12.5 dBf
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz, ± 0.5 dB
THD 0.05%
Separation 35 dB, 100 Hz to 10 Hz
Capture 1 dB
Selectivity 80 dB
Power 125 watts (21 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.02% at 130 watts
Response 30 Hz to 20 kHz, ± 0.3 dB
Sensitivity 2.7 mV (phono)
Overload 200 mV (phono)
S/N 78 dB (phono); 100 dB (aux)
Phono EQ 30 Hz to 18 kHz, ± 0.75 dB
Bass ± 10 dB at 60 Hz
Treble ± 10 dB at 1 kHz
Features Digital FM frequency readout; LED wattage power meters; mic mixing volume control; graphic equalizer with LED readout; touch sensitivity tuning dial; FM Dolby adaptor; FM mute; MPX FM filter; clipping indicator; record level check power protection circuit

Models also available

3275, \$600; 3233, \$300

MITSUBISHI

Melco Sales, Inc.

3030 E. Victoria St.
 Compton, Calif. 90221

DA-C20 Tuner/Preamplifier

Price \$510
Dimensions 6 3/4H x 16 3/4W x 11 1/2D
Weight 16 lbs.
Quieting 19.2 dBf/39.2 dBf
S/N 80 dB/75 dB
Response 30 Hz to 15 kHz, ± 1 dB
THD 0.05%/0.08% (1 kHz)
Separation 40 dB (10 kHz)
Subcarrier 70 dB
Capture 0.8 dB
Selectivity 75 dB/45 dB
Response 10 Hz to 100 kHz, ± 0.5 dB
Sensitivity 2.3 mV (phono); 150 mV (high level)
Overload 290 mV (phono)

S/N 84 dB (phono); 110 dB (tuner); 110 dB (aux) (rated input)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
Low filter 6 dB/octave below 18 Hz
Features Two-way tape dubbing; dual monaural construction; built-in moving-coil head amp; can be docked to either DA-A10DC, DA-A7DC or DA-A15DC power amplifiers; selectivity switch; tone defeat

Models also available

DA-C7 Tuner/Preamplifier, \$360

NAD

NAD (U.S.A.), Inc.

New Acoustic Dimension

MacKintosh Lane

P.O. Box 529

Lincoln, Mass. 01773

NAD-7080

Price \$610
Dimensions 5 9/10H x 19 3/10W x 15 3/5D
Weight 42 lbs.
Quieting 14.8 dBf/36.1 dBf
S/N 74 dB/70 dB
Response 30 Hz to 15 kHz, ± 0.5 dB
THD 0.2% (1 kHz)/0.3% (1 kHz)
Separation 30 dB, 30 Hz to 15 kHz
Subcarrier 70 dB
Capture 1 dB
Selectivity 70 dB
Power 90 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD

IM 0.03% at 90 watts
Response 5 Hz to 50 kHz, +0, -3 dB
Sensitivity 0.25 mV (phono); 20 mV (high level)

Overload 2 mV (phono)
S/N 90 dB (phono); 74 dB (tuner); 95 dB (aux)

Phono EQ RIAA, ± 0.3 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 20 Hz
Features Two-way tape dubbing; independent selection of bass and treble turnover frequencies; high-speed output relay for speaker protection

NAD-7060

Price \$510
Dimensions 5 1/2H x 12 7/10W x 15 3/5D
Weight 33 lbs.
Quieting 16 dBf/38.3 dBf
S/N 72 dB/68 dB
Response 30 Hz to 15 kHz, ± 0.5 dB
THD 0.2% (1 kHz)/0.3% (1 kHz)
Separation 30 dB, 30 Hz to 15 kHz
Subcarrier 70 dB
Capture 1.5 dB
Selectivity 62 dB
Power 60 watts (17.8 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD

IM 0.03% at 60 watts
Response 5 Hz to 50 kHz, +0, -3 dB
Sensitivity 0.3 mV (phono); 20 mV (high level)
Overload 2 mV (phono)
S/N 84 dB (phono); 72 dB (tuner); 95 dB (aux)

Phono EQ RIAA, ± 0.3 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 7 kHz
Low filter 12 dB/octave below 20 Hz

Features High-speed instrument-grade output relay for speaker protection; ambience recovery circuit

Models also available

NAD-7045, \$415; NAD-7030, \$320

NAKAMICHI

Nakamichi USA Corp.

1101 Colorado Ave.
 Santa Monica, Calif. 90401

730

Price \$1,200
Dimensions 3 3/4H x 19 3/4W x 15D
Weight 38 lbs.
Quieting 18.3 dBf/38.3 dBf
S/N 75 dB/68 dB
Response 30 Hz to 15 kHz, ± 1 dB
THD 0.1%/0.15% (1 kHz)
Separation 45 dB (1 kHz)
Subcarrier 70 dB
Capture 1.5 dB
Selectivity 70 dB
Power 105 watts (20.25 dBW) continuous at 8 ohms from 5 Hz to 20 kHz at no more than 0.02% THD

IM 0.004% at 105 watts
Response 10 Hz to 30 kHz, ± 0.3 dB
Sensitivity 2 mV (phono); 100 mV (high level)
Overload 120 mV (phono)
S/N 83 dB (phono); 94 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.3 dB
Bass ± 10 dB at 20 Hz
Treble ± 10 dB at 20 kHz
Features Motorized auto-tuning with four preset FM stations; touch-sensitive controls; optional wireless remote control available at \$190

630 Tuner/Preamplifier

Price \$730
Dimensions 7 1/2H x 16W x 10D
Weight 16 lbs.
Quieting 19 dBf/39 dBf
S/N 70 dB/68 dB
Response 30 Hz to 15 kHz, ± 0.3 dB/same
THD 0.05%/0.08% (1 kHz)
Separation 50 dB (1 kHz)
Subcarrier 75 dB
Capture 1 dB
Selectivity 80 dB
IM 0.004%
Response 20 Hz to 50 kHz, ± 0.75 dB
Sensitivity 1 mV (phono); 100 mV (high level) (1V out)
Overload 250 mV (phono)
S/N 80 dB (phono); (A-weighted re 1 mV input); 102 dB (aux) (A-weighted re 100 mV input)

Phono EQ 20 Hz to 20 kHz, ± 0.3 dB
Bass ± 9 dB at 20 Hz
Treble ± 9 dB at 20 kHz
Features Built-in Dolby; selectable IF bandwidth; linear-phase IF; selectable phono sensitivity

Models also available

530, \$850

NIKKO

Nikko Electric Corp.

of America
 16270 Raymer St.
 Van Nuys, Calif. 91406

NR-1219

Price \$650
Dimensions 7H x 22W x 15D
Weight 38 lbs. 8 oz.
Quieting 13.5 dBf
S/N 81 dB/75 dB
Response 50 Hz to 15 kHz, +0.2, -0.8 dB
THD 0.07% (1 kHz)/0.15% (1 kHz)
Separation 35 dB, 100 Hz to 10 kHz
Subcarrier 65 dB
Capture 1.5 dB
Selectivity 75 dB
Power 100 watts (20 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% at 100 watts
Response 10 Hz to 50 kHz, +0, -1 dB (aux; tape)
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 250 mV (phono)
S/N 84 dB (phono); 95 dB (tape); 95 dB (aux)

Phono EQ 30 Hz to 15 kHz, ± 0.3
Bass ± 10 dB at 70 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 10 kHz
Low filter 12 dB/octave below 20 Hz
Features Touch-tuning lock system; DC amp; LED power display system; PLL dual gate MOSFET FM; midrange control (± 6 dB at 1 kHz)

NR-519

Price \$250
Dimensions 5 3/5H x 17 4/5W x 11D
Weight 15 lbs. 14 oz.
Quieting 15.2 dBf
S/N 70 dB/60 dB
Response 50 Hz to 13 kHz, +0.5, -1 dB
THD 0.2% (1 kHz)/0.3% (1 kHz)
Separation 30 dB, 100 Hz to 10 kHz
Subcarrier 43 dB
Capture 1.8 dB
Selectivity 55 dB
Power 20 watts (13 dBW) continuous from 20 Hz to 20 kHz at no more than 0.08% THD
IM 0.08% at 20 watts
Response 20 Hz to 20 kHz, ± 1.0 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 130 mV (phono)
S/N 80 dB (phono); 90 dB (tape); 90 dB (aux)

Phono EQ 30 Hz to 15 kHz, ± 0.05 dB
Bass ± 10 dB at 70 Hz
Treble ± 10 dB at 10 kHz
Low filter 6 dB/octave below 20 Hz
Features Infrasonic filter

Models also available

NR-1019, \$540; NR-819, \$370; NR-719, \$320

NYTECH AUDIO LTD.

Import Audio Ltd.
 13430 Clayton Rd.
 St. Louis, Mo. 63131

CTA-252XDII

Price \$1,000
Dimensions 4 3/4H x 8 1/4W x 13 3/4D
Weight 10 lbs.
S/N 60 dB
Response 30 Hz to 15 kHz
THD 0.7% at 100% modulation; 0.2% at 30% modulation (stereo)
Selectivity 60 dB
Power 25 watts (14 dBW) at no more than 0.1% THD
Sensitivity 2 mV (MM); 150 mV (MC); 100 mV (high level)

S/N 65 dB (MM); 60 dB (MC); 75 dB (tuner); 90 dB (aux)
Features Four FM preset; moving-coil phono input standard

CTP-102 Tuner/Preamplifier

Price \$700
Dimensions 4 3/4H x 8 1/4W x 13 3/4D
Weight 6 lbs. 10 oz.
THD 0.02%
Overload 20 mV (MM); 150 mV (MC)
Features One-way tape dubbing; output variable up to 2V; may be purchased with either moving-magnet or moving-coil phono input

ONKYO

Onkyo U.S.A. Corp.
 42-07 20th Ave.
 Long Island City, N.Y. 11105

TX-8500 Mk II

Price \$1,000
Dimensions 7 3/4H x 21 1/2W x 18 3/4D
Weight 63 lbs. 13 oz.
Quieting 14.7 dBf/36 dBf
S/N 70 dB/65 dB
Response 30 Hz to 15 kHz, ± 1.5 dB (mono)
THD 0.7%/0.3%
Separation 35 dB, 100 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.3 dB
Selectivity 70 dB
Power 160 watts (22 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.1% at 160 watts
Response 1 Hz to 80 kHz, ± 1 dB
Sensitivity 2.5 mV (phono)
Overload 250 mV (phono)
S/N 87 dB (phono); 95 dB (aux)
Phono EQ 30 Hz to 15 kHz ± 0.2 dB
Bass ± 12 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 12 dB/octave above 6 kHz
Low filter 12 dB/octave below 100 Hz
Features Quartz-locked; DC AMP; digital FM readout; 7 presets for FM; dual power supply; Dolby FM; Accutact control

TX-4500 Mk II

Price \$460
Dimensions 6 1/2H x 21 1/4W x 15 3/4D
Weight 33 lbs.
Quieting 17.2 dBf/37.2 dBf
S/N 70 dB/65 dB
Response 30 Hz to 15 kHz, ± 1.75 dB (mono)
THD 0.2%/0.4%
Separation 30 dB, 100 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.5 dB
Selectivity 70 dB
Power 60 watts (17.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD

IM 0.3% at 60 watts
Response 15 Hz to 30 kHz, ± 1 dB
Sensitivity 2.5 mV (phono)
Overload 200 mV (phono)
S/N 86 dB (phono); 95 dB (aux)
Bass ± 12 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 12 dB/octave above 6 kHz
Low filter 12 dB/octave below 50 Hz
Features Quartz-locked; full complimentary output; dual-gate MOSFET front end; multiple protection circuitry

Models also available

TX-6500 Mk II, \$650; TX-2500 Mk II, \$320; TX-1500 Mk II, \$215

OPTONICA

Sharp Electronics Corp.
 10 Keystone Place
 Paramus, N.J. 07652

SA-5901

Price \$800
Dimensions 7 1/10H x 21 3/5W x 16D
Weight 46 lbs. 6 oz.
Quieting 13.0 dBf/35.2 dBf
S/N 84 dB/75 dB
Response 30 Hz to 15 kHz, ± 1.5 dB/30 Hz to 15 kHz, ± 1.5 dB
THD 0.1% (1 kHz)/0.3% (1 kHz)
Separation 35 dB (50 Hz to 10 kHz)
Subcarrier 51 dB
Capture 1.2 dB
Selectivity 85 dB
Power 125 watts (21 dBW) continuous from 20 Hz to 20 kHz at no more than 0.02% THD

IM 0.02% at 125 watts
Response 10 Hz to 55 kHz, ± 1.5 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 330 mV (phono)
S/N 80 dB (phono); 100 dB (aux)
Phono EQ 30 Hz to 20 kHz ± 0.2 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 7 kHz
Low filter 12 dB/octave below 30 Hz
Features Delta power; DC circuitry; 5-way power protection; opro lock tuning; 2-way tape dubbing; air check calibrator; dual phono input; 2 tone turnover controls rec out Selector

SA-5101

Price \$280
Dimensions 5 1/3H x 17 1/3W x 11 1/2D
Weight 14 lbs. 5 oz.
Quieting 16.2 dBf/35.2 dBf
S/N 73 dB/60 dB
Response 35 Hz to 15 kHz, ± 3 dB/35 Hz to 15 kHz, ± 3 dB
THD 0.2% (1 kHz)/0.4% (1 kHz)
Separation 31 dB, 50 Hz to 10 kHz
Subcarrier 41 dB
Capture 1.2 dB
Selectivity 60 dB
Power 25 watts (14 dBW) continuous from 20 Hz to 20 kHz at no more than 0.04% THD

IM 0.08% at 25 watts
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 150 mV (phono)
S/N 73 dB (phono); 96 dB (aux)
Phono EQ 30 Hz to 20 kHz
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
Features Air check calibrator; tape dubbing; LED tuning meter; LED signal strength meter; loudness control

Models also available

SA-5602, \$620; SA-5402, \$470; SA-5202, \$360

PHILIPS

Philips High Fidelity Laboratories
 1700 Magnavox Way
 Fort Wayne, Ind. 46804

AH-903

Price \$749.95
Power 125 watts (21 dBW) continuous

Features Digital FM tuning indicator; midrange control

AH-901

Price \$549.95
Power 80 watts (19 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

Features Vertical, fluorescent power meters; 20 dB muting; loudness control

AH-787

Price \$450
Dimensions 6H x 20³/₄W x 15¹/₂D
Weight 35 lbs.
Quieting 2.8 mV/30 mV
S/N 70 dB/65 dB
Response 20 Hz to 15 kHz, ±1 dB
THD 0.15%/0.3% (1 kHz)
Separation 50 dB (1 kHz)
Capture 1.3 dB
Selectivity 100 dB
Power 60 watts (17.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.04% THD

IM 0.04% at 60 watts
Response 15 Hz to 30 kHz, ±0.5 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 210 mV (phono)
S/N 70 dB (phono); 70 dB (tuner); 90 dB (aux)

Phono EQ 30 Hz to 15 kHz, ±0.5 dB
Bass ±10 dB at 50 Hz
Treble ±10 dB at 10 kHz
Features Also available in black as AH-7871 at \$470

Models also available

AH-786 Receiver, \$400; AH-785 Receiver, \$280; AH-784 Receiver, \$220

PIONEER

U. S. Pioneer Electronics Corp.
 85 Oxford Drive
 Moonachie, N.J. 07074

SX-1980

Price \$1,295
Dimensions 8¹/₄H x 22W x 19¹/₂D
Weight 78 lbs.
Quieting 11.5 dBf/36 dBf
S/N 83 dB/74 dB
Response 30 Hz to 15 kHz, +0.2, -0.5 dB (mono)
THD 0.07%/0.11% (1 kHz)
Separation 40 dB, 30 Hz to 15 kHz
Subcarrier 65 dB
Capture 1 dB
Selectivity 80 dB
Power 270 watts (24.25 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD

IM 0.03% at 270 watts
Response 5 Hz to 100 kHz, ±1 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 300 mV (phono)
S/N 87 dB (phono); 83 dB (tuner); 100 dB (aux)

Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass ±10 dB at 100 Hz/±5 dB at 50 Hz
Treble ±10 dB at 10 kHz/±5 dB at 20 kHz

High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 15 Hz
Features DC amplifier; twin power meters; quartz-sampling locked tuner

SX-1080

Price \$750
Dimensions 7H x 20³/₄W x 15¹/₄D
Weight 47 lbs.
Quieting 14.2 dBf/36 dBf
S/N 80 dB/71 dB
Response 30 Hz to 15 kHz, ±0.5 dB (mono)
THD 0.1%/0.15% (1 kHz)
Separation 35 dB, 30 Hz to 15 kHz
Subcarrier 65 dB
Capture 1 dB
Selectivity 80 dB
Power 120 watts (20.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.05% at 120 watts
Response 5 Hz to 100 kHz, ±1.5 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 200 mV (phono)
S/N 76 dB (phono); 80 dB (tuner); 90 dB (aux)

Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass ±7 dB at 100 Hz
Treble ±7 dB at 10 kHz
High filter 6 dB/octave above 6 kHz
Low filter 6 dB/octave below 15 Hz
Features DC power amp; twin power meters

SX-880

Price \$475
Dimensions 5¹/₂H x 18³/₄W x 12³/₄D
Weight 27 lbs.
Quieting 16.2 dBf/37 dBf
S/N 80 dB/72 dB
Response 30 Hz to 15 kHz, +0.2, -0.8 dB (mono)
THD 0.07%/0.15% (1 kHz)
Separation 35 dB, 30 Hz to 15 kHz
Subcarrier 55 dB
Capture 1 dB
Selectivity 75 dB
Power 60 watts (17.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.05% at 60 watts
Response 5 Hz to 80 kHz, ±1 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 200 mV (phono)
S/N 76 dB (phono); 80 dB (tuner); 95 dB (aux)

Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass +8, -7 dB at 100 Hz
Treble +7, -6 dB at 10 kHz
Low filter 6 dB/octave below 15 Hz
Features DC power amp; twin power meters

SX-680

Price \$300
Dimensions 5³/₄H x 17¹/₄W x 12³/₄D
Weight 19 lbs. 12 oz.
Quieting 16.7 dBf/37 dBf
S/N 80 dB/70 dB
Response 30 Hz to 15 kHz, +0.2, -1 dB (mono)
THD 0.07%/0.15% (1 kHz)
Separation 30 dB, 30 Hz to 15 kHz
Subcarrier 50 dB
Capture 1 dB
Selectivity 60 dB
Power 30 watts (14.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD

IM 0.1% at 30 watts
Response 10 Hz to 60 kHz, +0.5, -1.5 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 200 mV (phono)
S/N 75 dB (phono); 80 dB (tuner); 90 dB (aux)

Phono EQ 20 Hz to 20 kHz, ±0.3 dB
Bass ±8 dB at 100 Hz
Treble ±10 dB at 10 kHz
Features Twin power meters

Models also available

SX-1280, \$950; SX-980, \$650; SX-780, \$375; SX-580, \$250

REALISTIC
Radio Shack
 1400 One Tandy Center
 Ft. Worth, Tex. 76102

STA-2200

Price \$599.95
S/N 68 dB
THD 0.3%
Separation 48 dB (1 kHz)
Capture 1.5 dB
Selectivity 68 dB
Power 60 watts (17.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.02% THD

IM 0.01% at 42 watts
Response 10 Hz to 85 kHz, ±2 dB
Sensitivity 2.2 mV (phono)
Overload 200 mV (phono)
S/N 65 dB (phono); 75 dB (aux)
Bass ±10 dB at 50 or 100 Hz
Treble ±10 dB at 10 or 20 kHz
Features MOSFET power output transistors; digital tuner; 6-station memory; clock; Dolby FM

STA-240

Price \$429.95
S/N 66 dB
THD 0.1%
Separation 51 dB (1 kHz)
Capture 1.8 dB
Selectivity 70 dB
Power 60 watts (17.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.04% at 50 watts
Response 20 Hz to 50 kHz, ±2 dB
Sensitivity 2.5 mV (phono)
Overload 250 mV (phono)
S/N 69 dB (phono); 90 dB (aux)
Features LED digital FM readout; plumb standard dial scale; longthrow toggle-type function switches; detented volume control

STA-820

Price \$359.95
S/N 69 dB
THD 0.5%
Separation 45 dB (1 kHz)
Capture 1.9 dB
Selectivity 57 dB
Power 40 watts (16 dBW) continuous from 20 Hz to 20 kHz at no more than 0.06% THD

IM 0.06% at 28 watts
Response 10 Hz to 50 kHz, ±2 dB
Sensitivity 2.2 mV (phono)
Overload 200 mV (phono)
S/N 65 dB (phono); 87 dB (aux)

STA-100

Price \$280
Dimensions 6H x 17W x 12¹/₂D
Quieting 39 dBf/14.2 dBf
S/N 65 dB/75 dB
Response 20 Hz to 20 kHz, ±0.5 dB (mono)
THD 0.5% (1 kHz)/0.1% (1 kHz)
Separation 38 dB (1 kHz)
Subcarrier 50 dB
Capture 1.5 dB
Selectivity 65 dB
Power 22 watts (13.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD

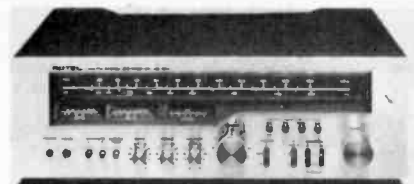
Response 20 Hz to 20 kHz, ±2 dB
Sensitivity 2.2 mV (phono); 160 mV (high level)
Overload 120 mV (phono)



Sansul G-33000



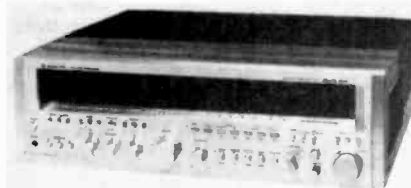
Realistic STA-2200



Rotel RX-504



Onkyo TX-4500 Mk II



Sanyo Plus 200

S/N 75 dB (aux)
Phono EQ 50 Hz to 20 kHz, ± 2 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
Features FM Dolby; taping and dubbing jacks

Models also available

STA-2100D, \$699.95; STA-2000D, \$500; STA-95, \$399.95; STA-800, \$319.95; STA-7, \$179.95

IM 0.05% at 1 watt
Response 20 Hz to 30 kHz, ± 0.5 dB
Sensitivity 2 mV (phono); 220 mV (high level)
Overload 120 mV (phono)
S/N 72 dB (phono); 70 dB (tuner); 78 dB (aux)

Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 10 kHz
Features Two tape monitors; LED overload indicator

Power 180 watts (22.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.1% at 180 watts
Response 5 Hz to 100 kHz, ± 0.5 dB
Sensitivity 0.26 mV or 0.19 mV (phono); 11.2 mV (high level)

Overload 350 mV (phono)
S/N 75 dB (phono); 95 dB (aux) (A-weighted re 180 watts)

Phono EQ 30 Hz to 15 kHz, ± 0.2 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 30 Hz
Features FM multipath; 25-microsecond de-emphasis switch; high-blend switch; FM detector output; 2-position phono sensitivity; mic mixing; 2-position bass turnover; 2-position treble turnover

REFERENCE

Quadraflex
P.O. Box 2504
Santa Ana, Calif. 92707

650 FETR

Price \$480
Dimensions 5 $\frac{1}{4}$ "H x 18 $\frac{1}{2}$ "W x 14"D
Weight 33 lbs.
Quieting 13.5 dBf/35.9 dBf
S/N 72 dB
Response 30 Hz to 15 kHz, ± 0.5 dB
THD 0.1%/0.15% (1 kHz)
Separation 44 dB (100 Hz to 10 kHz)
Subcarrier 55 dB
Capture 1 dB
Selectivity 72 dB
Power 65 watts (18 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD

IM 0.02% at 1 watt
Response 5 Hz to 65 kHz, ± 0.5 dB
Sensitivity 2 mV (phono); 160 mV (high level)
Overload 200 mV (phono)
S/N 80 dB (phono); 72 dB (tuner); 85 dB (aux)

Phono EQ 30 Hz to 15 kHz, ± 0.25 dB
Bass ± 10 dB at 50 Hz & 100 Hz
Treble ± 10 dB at 10 kHz & 20 kHz
High filter 6 dB/octave above 7 kHz
Features MOSFET output; 6 tone turnovers; dual LED power display; pilot-cancelling IC

240R

Price \$270
Dimensions 5 $\frac{3}{4}$ "H x 16 $\frac{3}{4}$ "W x 11 $\frac{1}{4}$ "D
Weight 21 lbs.
Quieting 14.2 dBf/36.4 dBf
S/N 70 dB
Response 30 Hz to 15 kHz, ± 0.5 dB
THD 0.22%/0.45% (1 kHz)
Separation 40 dB (100 Hz to 10 kHz)
Subcarrier 55 dB
Capture 1.9 dB
Selectivity 68 dB
Power 24 watts (13.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.15% THD

180R

Price \$240
Dimensions 5 $\frac{1}{4}$ "H x 16 $\frac{3}{4}$ "W x 11 $\frac{1}{4}$ "D
Weight 19 lbs. 12 oz.
Quieting 14.8 dBf/36.8 dBf
S/N 70 dB
Response 30 Hz to 15 kHz, ± 0.5 dB
THD 0.25%/0.5% (1 kHz)
Separation 38 dB (100 Hz to 10 kHz)
Subcarrier 55 dB
Capture 2 dB
Selectivity 65 dB
Power 18 watts (12.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.15% THD

IM 0.05% at 1 watt
Response 20 Hz to 30 kHz, ± 0.5 dB
Sensitivity 2.0 mV (phono); 220 mV (high level)

Overload 120 mV (phono)
S/N 70 dB (phono); 70 dB (tuner); 75 dB (aux)

Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
Features MPX blend; FM mute; detented controls; LED overload indicator

Models also available

450R, \$400; 300R, \$310

ROTEL

Rotel of America, Inc.
1055 Saw Mill River Road
Ardley, N.Y. 10502

RX-1603

Price \$1,100
Dimensions 7 $\frac{1}{4}$ "H x 24"W x 19 $\frac{1}{4}$ "D
Weight 72 lbs. 8 oz.
Quieting 11.5 dBf/36 dBf
S/N 80 dB/75 dB
Response 30 Hz to 15 kHz, ± 0.5 dB (mono)
THD 0.1%/0.2% (1 kHz)
Separation 35 dB, 30 Hz to 15 kHz
Subcarrier 75 dB
Capture 1 dB
Selectivity 80 dB

RX-2002

Price \$850
Dimensions 6H x 19 $\frac{1}{4}$ W x 13 $\frac{3}{4}$ D
Quieting 9.3 dBf/36 dBf
S/N 75 dB/70 dB
Response 30 Hz to 15 kHz, ± 0.4 dB
THD 0.02% (20 Hz to 20 kHz)
Separation 43 dB (1 kHz)
Subcarrier 75 dB
Capture 1.5 dB
Selectivity 75 dB
Power 80 watts (18 dBW) continuous at no more than 0.02% THD

IM 0.03% at 90 watts
Response 5 Hz to 100 kHz
Sensitivity 2.4 mV (phono); 150 mV (high level)

Overload 350 mV (phono)
S/N 75 dB (phono); 95 dB (tuner); 95 dB (aux)

Phono EQ 30 Hz to 15 kHz, ± 0.2 dB
Bass ± 10 dB at 25 Hz
Treble ± 10 dB at 20 kHz
High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 15 Hz
Features FM PLL MPX; LED peak indicator; digital station readout; audio muting, -15 dB; full tape dubbing; FM de-emphasis switch for Dolby; built-in head amp for moving-coil cartridge; rack-mount design; direct-coupled NF phono equalizer and tone control amp

RX-504

Price \$350
Dimensions 5H x 17W x 13D
Weight 20 lbs.
Quieting 15.5 dBf/37 dBf
S/N 70 dB/65 dB
Response 30 Hz to 15 kHz, +1, -3 dB
THD 0.04%
Separation 45 dB (1 kHz)
Subcarrier 60 dB
Capture 1.5 dB

Selectivity 50 dB
Power 40 watts (16 dBW) continuous from 20 Hz to 20 kHz at no more than 0.04% THD
IM 0.05% at 40 watts
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 180 mV (phono)
S/N 70 dB (phono); 85 dB (tuner); 88 dB (aux)
Phono EQ 30 Hz to 15 kHz
Bass ± 10 dB at 25 Hz
Treble ± 10 dB at 20 kHz
Low filter 12 dB/octave below 15 Hz
Features Dual power meters; dual function tuning meter

RX-203A

Price \$220
Dimensions 5H x 16W x 10D
Weight 15 lbs. 8 oz.
Quieting 16 dBf/39 dBf
S/N 75 dB/65 dB
Response 30 Hz to 15 kHz, +0.5, -1 dB (mono)
THD 1.5%/0.2%
Separation 40 dB (1 kHz)
Capture 2 dB
Selectivity 50 dB
Power 20 watts (13 dBW) continuous from 20 Hz to 20 kHz at no more than 0.2% THD
IM 0.2% at 20 watts
Response 20 Hz to 50 kHz, ± 3 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 120 mV (phono)
S/N 75 dB (phono); 85 dB (tuner); 85 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 1 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz

Models also available

RX-2001, \$750; RX-604, \$400; RX-1000, \$300; RX-404, \$290

SAE TWO

Scientific Audio Electronics, Inc.
 701 East Macy St.
 Los Angeles, Calif. 90012

R-18

Price \$1,350
Dimensions 6½H x 22W x 18D
Weight 55 lbs.
Quieting 17.3 dBf/34.7 dBf
S/N 76 dB/70 dB
Response 30 Hz to 15 kHz, +0.5, -2 dB/30 Hz to 15 kHz, +0.5, -2 dB
THD 0.08% (1 kHz)/0.15% (1 kHz)
Separation 40 dB, 50 Hz to 15 kHz
Subcarrier 65 dB
Capture 1 dB
Selectivity 70 dB
Power 180 watts (22.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 180 watts
Response 20 Hz to 20 kHz, ± 0.5 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 150 to 300 mV (phono)
S/N 94 dB (phono); 100 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Low filter 6 dB/octave below 30 Hz
Features Digital readout; quartz-lock touch tuning; parametric equalizer; 5-station AM/FM memory; bar-graph display of signal strength, multipath, tape out, and power

R-3C

Price \$335
Dimensions 5¼H x 17½W x 14D
Weight 20 lbs.
Quieting 11.2 dBf/19.2 dBf
S/N 65 dB/68 dB
Response 30 Hz to 15 kHz, ± 0.5 dB/same
THD 0.15%/0.25% (1 kHz)
Separation 30 dB, 100 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.5 dB
Selectivity 80 dB
Power 30 watts (14.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.09% THD
IM 0.09% at 30 watts
Response 20 Hz to 20 kHz, ± 0.25 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 125 mV (phono)
S/N 78 dB (phono); 95 dB (tuner); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
Low filter 6 dB/octave below 30 Hz
Features Signal-strength and center-tune meters; full complementary circuit

Models also available

R-12, \$1,100; R-9, \$800; R-6, \$650

SANSUI

Sansui Electronics Corp.
 1250 Valley Brook Ave.
 Lyndhurst, N.J. 07071

G-33000

Price \$1,900
Dimensions 9H x 25W x 21¼D
Weight 100 lbs.
Quieting 12.5 dBf/34 dBf
S/N 82 dB/77 dB
Response 30 Hz to 15 kHz, +0.2, -1 dB/same
THD 0.05%/0.07% (1 kHz)
Separation 30 dB, 30 Hz to 15 kHz; 50 dB (1 kHz)
Subcarrier 65 dB
Capture 0.9 dB
Selectivity 90 dB
Power 300 watts (24.75 dBW) continuous from 5 Hz to 20 kHz at no more than 0.009% THD
IM 0.009% at 300 watts
Response DC to 300 kHz, -3 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 350 mV (phono)
S/N 87 dB (phono); 105 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 3 kHz
Low filter 6 dB/octave below 16 Hz
Features Separable preamp and power amp; 4 meters; triple tone controls; switchable turnovers; mic/mixing input; phono impedance selector; Dolby FM de-emphasis; AM and FM dual bandwidth IF switching; 2 phono; 2 tape inputs with 2-way copying; 2-system speaker selector; midrange control (± 5 dB at 1.5 kHz); slew rate: 175 volts per microsecond

G-9700

Price \$1,100
Dimensions 7 15/16H x 22 1/16W x 19½D
Weight 48 lbs. 14 oz.
Quieting 12.5 dBf/35 dBf
S/N 82 dB/76 dB
Response 30 Hz to 15 kHz, +0.2, -1 dB/30 Hz to 15 kHz, +0.2, -1 dB

THD 0.05% (1 kHz)/0.07% (1 kHz)
Separation 30 dB (30 Hz to 15 kHz); 45 dB (1 kHz)
Subcarrier 40 dB
Capture 1 dB
Selectivity 80 dB
Power 200 watts (23 dBW) continuous from 20 Hz to 20 kHz at no more than 0.02% THD

IM 0.02% at 200 watts
Response DC to 200 kHz, +0, -3 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 280 mV (phono)
S/N 78 dB (phono); 95 dB (tuner); 95 dB (aux)

Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 3 kHz
Low filter ± 6 dB/octave below 16 Hz
Features Patented FM/AM digitally quartz-locked tuning system; 3-point tune and 8-point signal indicator; LED peak power level display (12 points each channel); mic mixing; dual bandwidth FM; 2-way tape copying; dual phono inputs; 2-system speaker selector; midrange control (± 5 dB at 1.5 kHz); slew rate: 80 volts per microsecond; 1.4 microsecond rise time

G-6700

Price \$730
Dimensions 7 3/16H x 19 15/16W x 16½D
Weight 35 lbs. 8 oz.
Quieting 15 dBf/37 dBf
S/N 75 dB/70 dB
Response 30 Hz to 15 kHz, +0.5, -1 dB/30 Hz to 15 kHz, +0.5, -1 dB
THD 0.1% (1 kHz)/0.15% (1 kHz)
Separation 40 dB (1 kHz)
Subcarrier 40 dB
Capture 1 dB
Selectivity 50 dB
Power 90 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.025% THD

IM 0.025% at 90 watts
Response DC to 200 kHz, +0, -3 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 250 mV (phono)
S/N 78 dB (phono); 95 dB (tuner); 95 dB (aux)

Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 3 kHz
Low filter 6 dB/octave below 16 Hz
Features Patented digitally quartz-locked tuning system; 15-segment peak power output; LED display; 2 phono, 2 tape, and mic mixing inputs; switchable audio muting; loudness compensation; 2-system speaker selector; slew rate: 60 volts per microsecond; 1.4 microsecond rise time

G-7500

Price \$620
Dimensions 7 ½H x 19 15/16W x 16 ½D
Weight 37 lbs. 14 oz.
Quieting 14 dBf/36 dBf
S/N 72 dB/68 dB
Response 30 Hz to 15 kHz, +0.2, -1 dB/same
THD 0.13% (1 kHz)/0.18% (1 kHz)
Separation 25 dB, 30 Hz to 15 kHz; 42 dB (1 kHz)
Subcarrier 60 dB
Capture 1 dB
Selectivity 75 dB
Power 90 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.025% THD

IM 0.025% at 90 watts
Response DC to 200 kHz, -3 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 240 mV (phono)
S/N 78 dB (phono); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 3 kHz
Low filter 6 dB/octave below 16 Hz
Features DC power amplifier; 4 meters; Dolby FM de-emphasis; 2-way tape copy; mic mixing; 4-channel or noise-reduction adapter; slew rate: 60 volts per microsecond

TA-500

Price \$465
Dimensions 6 $\frac{1}{8}$ "H x 19W x 16 3/16D
Weight 24 lbs.
Quieting 15 dBf/38 dBf
S/N 75 dB/70 dB
Response 30 Hz to 15 kHz, +0.5, -1 dB/30 Hz to 15 kHz, +0.5, -1 dB
THD 0.1% (1 kHz)/0.15% (1 kHz)
Separation 40 dB (1 kHz)
Capture 1 dB
Selectivity 50 dB
Power 50 watts (17 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.05% at 50 watts
Response DC to 70 kHz, +1, -3 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 210 mV (phono)
S/N 75 dB (phono); 95 dB (tuner); 95 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 10 kHz
Low filter 6 dB/octave below 20 Hz
Features Two tape monitors; FM mode switch; loudness switch; matte black finish; removable rack-mounting handles

G-4700

Price \$430
Dimensions 6 $\frac{1}{8}$ "H x 17 1/16W x 14D
Weight 19 lbs.
Quieting 15 dBf/38 dBf
S/N 75 dB/70 dB
Response 30 Hz to 15 kHz, +0.5, -1 dB/30 Hz to 15 kHz, +0.5, -1 dB
THD 0.15% (1 kHz)/0.25% (1 kHz)
Separation 40 dB (1 kHz)
Subcarrier 45 dB
Capture 1 dB
Selectivity 50 dB
Power 50 watts (17 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.05% at 50 watts
Response 10 Hz to 70 kHz, +1, -2 dB
Sensitivity 2.5 mV (phono); 150 mV (high lev)
Overload 200 mV (phono)
S/N 76 dB (phono); 95 dB (tuner); 95 dB (aux)

Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 10 kHz
Low filter 6 dB/octave below 16 Hz
Features Patented digitally quartz-locked tuning system; 2-system speaker selector; tape monitor; switchable FM muting; loudness contour; subsonic filtering

G-4500

Price \$320
Dimensions 6 1/16H x 17 1/16W x 14D
Weight 17 lbs. 14 oz.
Quieting 15 dBf/38 dBf
S/N 71 dB/68 dB
Response 30 Hz to 15 kHz, +0.5, -1 dB/same
THD 0.15% (1 kHz)/0.25% (1 kHz)
Separation 20 dB, 30 Hz to 15 kHz; 40 dB (1 kHz)
Subcarrier 45 dB

Capture 1.3 dB
Selectivity 50 dB
Power 40 watts (16 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 40 watts
Response 10 Hz to 50 kHz, +1, -2 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 200 mV (phono)
S/N 75 dB (phono); 95 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 10 kHz
Features Twin tuning meters; 2-system speaker switching; mic mixing; switchable FM muting

Models also available

G-22000, \$1,400; G-7700, \$800; G-5700, \$630; G-5500, \$465; TA-300, \$340; G-3500, \$270

SANYO

Sanyo Electric Co.
1200 W. Artesia Blvd.
Compton, Calif. 90220

JCX-2900

Price \$549.95
Dimensions 2 $\frac{1}{4}$ "H x 6 $\frac{1}{2}$ "W x 16 $\frac{3}{4}$ "D
Quieting 9.3 dBf
S/N 78 dB/78 dB
Response 20 Hz to 15 kHz, +1, -2 dB
THD 0.1% (1 kHz)/0.15% (1 kHz)
Separation 45 dB (1 kHz)
Capture 1 dB
Selectivity 80 dB
Power 120 watts (20.8 dBW) continuous from 20 Hz to 20 kHz at no more than 0.08% THD
Response 20 Hz to 30 kHz, ± 0.2 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 250 mV (phono)
S/N 70 dB (phono); 90 dB (tuner); 90 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.2 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 8 kHz
Low filter 12 dB/octave below 30 Hz
Features Two tape inputs with dubbing; tone control, turnover switch; midrange tone control

2033

Price \$249.95
Dimensions 15 $\frac{1}{4}$ "H x 17 $\frac{1}{4}$ "W x 10 $\frac{3}{8}$ "D
S/N 75 dB/70 dB
Response 20 Hz to 40 kHz, ± 0.1 dB
THD 0.2% (1 kHz)
Separation 45 dB (1 kHz)
Capture 1.5 dB
Selectivity 70 dB
Power 38 watts (15.75 dBW) continuous from 20 Hz to 40 kHz at no more than 0.04% THD
Response 20 Hz to 40 kHz, ± 0.4 dB
Overload 2.5/130 mV (phono)
S/N 73 dB (phono); 75 dB (tuner); 90 dB (aux)
Features IF amplifier; PLL; signal strength and FM center channel meters; phono preamplifier; loudness switching; full complementary hybrid Darlington output stage; high capacity power supply

PLUS SERIES

PLUS 200

Price \$899.95
Quieting 13.5 dBf/36.3 dBf
S/N 83 dB/78 dB

Response 20 Hz to 15 kHz, +0.5, -1 dB
THD 0.15% (100 Hz)/0.3% (100 Hz)
Separation 35/45 dB (1 kHz to 10 kHz)
Capture 1.8 dB
Power 400 watts (26 dBW) continuous from 20 Hz to 20 kHz at no more than 0.009% THD
Response 7 Hz to 100 kHz, +0, -1 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 250 mV (phono)
S/N 97 dB (phono); 83 dB (tuner); 95 dB (aux)
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 8 kHz
Features Sampling quartz-locked tuning system; separate tuner/preamp and power amp sections; Digital Plus analog and digital frequency display; ring emitter transistors in output stage for ultra-high 170 volt per microsecond slew rate; selectable wide/narrow IF bandwidth; preamp for moving coil phono cartridges; peak power indicators with 12 LEDs per channel; selectable FM de-emphasis for DOLBY FM decoding; separate tape monitor and dubbing switches for bidirectional tape copying while monitoring another source

PLUS 75

Price \$549.95
Dimensions 5 $\frac{1}{4}$ "H x 18 $\frac{1}{8}$ "W x 11 $\frac{1}{2}$ "D
Quieting 13.7 dBf/37 dBf
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz, +1, -2 dB
THD 0.2% (100 Hz)/0.35% (100 Hz)
Separation 45 dB (1 kHz to 10 kHz)
Capture 1.2 dB
Selectivity 75 dB
Power 150 watts (21.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% (60 Hz and 7 kHz)
Response 7 Hz to 100 kHz, +0, -1 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 200 mV (phono)
S/N 97 dB (phono); 45 dB (tuner); 95 dB (aux)
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 8 kHz
Low filter 12 dB/octave below 30 Hz
Features Sampling quartz-locked tuning system; LED signal indicators; dual-gate MOSFET RF amplifier; advanced IF design; switchable FM muting; DOLBY FM de-emphasis switch; phono preamplifier with moving-coil cartridge capability; three-band discrete tone equalizer with defeat; LED power indicators

Models also available

JCX-2600, \$449.95; 2050, \$299.95; 2016, \$169.95; PLUS 130, \$699.95; PLUS 55, \$399.95

SCOTT

H. H. Scott, Inc.
20 Commerce Way
Woburn, Mass. 01801

390R

Price \$775
Dimensions 6 $\frac{1}{2}$ "H x 23W x 16D
Weight 49 lbs.
Quieting 15.6 dBf/35.6 dBf
S/N 80 dB/75 dB
Response 25 Hz to 15 kHz, ± 2 dB (mono)
THD 0.1% (mono)
Separation 50 dB (1 kHz)
Subcarrier 74 dB
Capture 1 dB
Selectivity 80 dB
Power 120 watts (20.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD

IM 0.03% at 120 watts
Response 10 Hz to 40 kHz, ± 1.0 dB
Sensitivity 2.5 mV (phono); 5 mV (high level)
Overload 300/600 mV (phono)
S/N 90 dB (phono); 95 dB (tuner); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 12 dB/octave above 8 kHz & 12 kHz
Low filter 12 dB/octave below 18 Hz & 40 Hz
Features 18-LED power indicator; volume attenuator; bass/midrange/treble tone controls with turnover points and bypass

370R

Price \$500
Dimensions 6H x 20 $\frac{1}{4}$ W x 11 $\frac{3}{4}$ D
Weight 35 lbs. 8 oz.
Quieting 16.1 dBf/36.3 dBf
S/N 75 dB/70 dB
Response 25 Hz to 15 kHz, ± 2 dB (mono)
THD 0.125% (mono)
Separation 45 dB
Subcarrier 60 dB
Capture 1.25 dB
Selectivity 60 dB
Power 60 watts (17.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

IM 0.05% at 60 watts
Response 10 Hz to 40 kHz, ± 1.0 dB
Sensitivity 2.5 mV (phono)
Overload 200 mV (phono)
S/N 85 dB (phono); 95 dB (tuner); 90 dB (aux)

Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 8 kHz
Low filter 6 dB/octave below 30 Hz
Features Protection circuit with LED indicators; power meters; bass/midrange/treble tone controls

330R

Price \$280
Dimensions 5 $\frac{1}{4}$ H x 17 $\frac{1}{4}$ W x 10 $\frac{1}{4}$ D
Weight 21 lbs.
Quieting 16.7 dBf/37 dBf
S/N 72 dB/67 dB
Response 30 Hz to 15 kHz, ± 2 dB (mono)
THD 0.15% (mono)
Separation 45 dB (1 kHz)
Subcarrier 58 dB
Capture 2 dB
Selectivity 50 dB
Power 25 watts (14 dBW) continuous from 20 Hz to 20 kHz at no more than 0.08% THD

IM 0.08% at 25 watts
Response 10 Hz to 40 kHz, ± 1.0 dB
Sensitivity 2.5 mV (phono)
Overload 180 mV (phono)
S/N 80 dB (phono); 85 dB (tuner); 85 dB (aux)

Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 8 kHz
Features DC-configuration OCL power amplifier

Models also available

380R, \$600; 350R, \$400; 320R, \$230

SHERWOOD

Sherwood
 4300 N. California Ave.
 Chicago, Ill. 60618

S-7650CP

Price \$425
Dimensions 5 11/16H x 18W x 14D

Weight 24 lbs.
Quieting 9.84 dBf/1.7 μ V (IHF)
S/N 66 dB/70 dB
Response 20 Hz to 15 kHz, +0.5, -1.5 dB/same
THD 0.15% (1 kHz)/0.25% (1 kHz)
Separation 30 dB, 20 Hz to 10 kHz
Subcarrier 65 dB
Capture 1 dB
Selectivity 70 dB
Power 45 watts (16.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.2% THD

IM 0.2% at 45 watts
Response 30 Hz to 20 kHz ± 0.5 dB
Sensitivity 2.5 mV (phono); 160 mV (high level)

Overload 160 mV (phono)
S/N 92 dB (phono); 70 dB (tuner); 95 dB (aux)

Phono EQ 30 Hz to 20 kHz, ± 0.5 dB
Bass ± 14 dB at 50 Hz
Treble ± 12 dB at 15 kHz
High filter 12 dB/octave above 7 kHz
Features Certified performance: notarized certificate with each unit shows exact performance; linear phase IF; built-in infrasonic filter; four-section FM with dual-gate MOSFET

S-7150CP

Price \$230
Dimensions 5 $\frac{1}{2}$ H x 17W x 12 $\frac{3}{4}$ D
Weight 18 lbs.
Quieting 10.8 dBf/ 1.9 μ V (IHF)
S/N 66 dB/70 dB
Response 20 Hz to 15 kHz, +1, -2 dB/same
THD 0.15% (1 kHz)/0.25% (1 kHz)
Separation 30 dB, 20 Hz to 10 kHz
Subcarrier 50 dB
Capture 1.2 dB
Selectivity 60 dB
Power 15 watts (11.8 dBW) continuous from 20 Hz to 20 kHz at no more than 0.2% THD

IM 0.2% at 15 watts
Response 30 Hz to 20 kHz, ± 0.5 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 140 mV (phono)
S/N 91 dB (phono); 70 dB (tuner); 95 dB (aux)

Phono EQ 30 Hz to 20 kHz, ± 0.5 dB
Bass ± 12 dB at 50 Hz
Treble ± 10 dB at 15 kHz
Features Certified performance: notarized certificate with each unit shows exact performance; linear phase IF; built-in infrasonic filter

Models also available

S-7450CP, \$350; S-7250 CP, \$290

SONY

Sony Industries
 9 West 57th St.
 New York, N.Y. 10019

STR-V7

Price \$900
Dimensions 7 9/16H x 20 $\frac{1}{2}$ W x 17 $\frac{3}{4}$ D
Weight 48 lbs.
Quieting 14.2 dBf/37.3 dBf
S/N 75 dB/70 dB
Response 30 Hz to 15 kHz, +0.2, -1.5 dB
THD 0.08% (1 kHz)/0.15% (1 kHz)
Separation 48 dB (1 kHz)
Subcarrier 60 dB
Capture 1 dB
Selectivity 80 dB
Power 150 watts (21.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.07% THD

IM 0.07% at 150 watts
Response 5 Hz to 50 kHz, +0, -2 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 250 mV (phono)

S/N 86 dB at 5 mV (phono); 100 dB (aux); 150 dB (tape)
Phono EQ RIAA, ± 0.5 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 9 kHz
Low filter 6 dB/octave below 50 Hz
Features Moving-coil capability

STR-V5

Price \$580
Dimensions 7 9/16H x 20 $\frac{1}{2}$ W x 17 $\frac{3}{4}$ D
Weight 45 lbs.
Quieting 14.5 dBf/37.3 dBf
S/N 75 dB/70 dB
Response 30 Hz to 15 kHz, +0.2, -1.5 dB
THD 0.08% (1 kHz); 0.25% (1 kHz)
Separation 48 dB (1 kHz)
Subcarrier 60
Capture 1 dB
Selectivity 75 dB
Power 85 watts (19.25 dBW) continuous from 20 Hz to 20 kHz at no more than 0.07% THD

IM 0.07% at 85 watts
Response 5 Hz to 50 kHz, +0, -2 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 200 mV (phono)
S/N 81 dB at 5 mV (phono); 100 dB (aux); 100 dB (tape)

Phono EQ RIAA, ± 0.5 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 9 kHz
Low filter 6 dB/octave below 50 Hz

STR-V3

Price \$330
Dimensions 5 11/16H x 19 11/16W x 15 7/16D
Weight 26 lbs.
Quieting 16.4 dBf/37.9 dBf
S/N 72 dB/68 dB
Response 30 Hz to 15 kHz, +1, -2 dB
THD 0.15% (1 kHz)/0.25% (1 kHz)
Separation 45 dB (1 kHz)
Subcarrier 50 dB
Capture 1 dB
Selectivity 60 dB
Power 35 watts (15.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD

IM 0.1% at 35 watts
Response 5 Hz to 50 kHz, +0.5, -2 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

Overload 200 mV (phono)
S/N 78 dB (phono) at 5 mV; 100 dB (tape)

Phono EQ RIAA, ± 0.8 dB
Bass ± 10 dB
Treble ± 10 dB

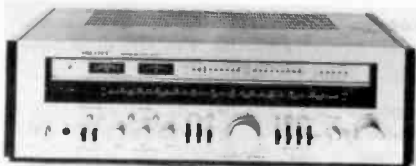
STR-V1

Price \$220
Dimensions 5 $\frac{3}{4}$ H x 18 $\frac{1}{2}$ W x 14 $\frac{3}{4}$ D
Weight 17 lbs.
Quieting 18.3 dBf/38.3 dBf
S/N 70 dB/65 dB
Response 30 Hz to 15 kHz, +1, -2 dB
THD 0.2% (1 kHz)/0.8% (1 kHz)
Separation 40 dB (1 kHz)
Subcarrier 45 dB
Capture 2.5 dB
Selectivity 35 dB
Power 15 watts (11.75 dBW) continuous from 30 Hz to 20 kHz at no more than 0.2% THD

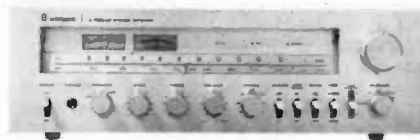
IM 0.2% at 15 watts
Response 2 Hz to 50 kHz, +0.5, -3 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)

S/N 76 dB (at 5 mV phono); 85 dB (tape)

Phono EQ RIAA, ± 1.5 dB
Bass ± 8 kHz
Treble ± 8 kHz



Scott 390R



Sherwood S-7650



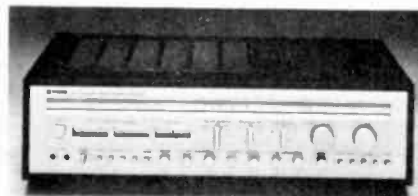
Synergistica R-301



Tandberg TR-2080



Thorens AT-410



Yamaha CR-2040

Models also available

STR-V6, \$700; STR-V4, \$430;
STR-V2, \$260; STR-1800, \$165

SYNERGISTICS

Maybern Co.

9565 Midwest Ave
Cleveland, Ohio 44125

R-301

Price \$275
Dimensions 5 1/2"H x 18 7/16"W x 15 3/15"D
Weight 25 lbs
Quieting 16.11 dBf/37.2 dBf
S/N 68 dB/65 dB
Response 20 Hz to 15 kHz, ± 2 dB/20 Hz to 15 kHz, ± 2 dB
THD 0.3%/0.5%
Separation 40 dB, 1 kHz
Capture 1.5 dB
Selectivity 52 dB
Power 30 watts (14.75 dBW) continuous from 30 Hz to 20 kHz at no more than 0.5% THD
IM 0.15% at 30 watts
Response 20 Hz to 20 kHz, ± 1.0 dB
Sensitivity 2.5 mV (phono)
Overload 100 mV (phono)
S/N 90 dB (phono); 85 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 1.0 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 3 dB/octave above 10 kHz

Models also available

R-201, \$225

TANDBERG

Tandberg of America, Inc.

Labriola Court
Armonk, N.Y. 10504

TR-2080

Price \$1,400
Dimensions 6"H x 20 1/8"W x 13 3/8"D
Weight 27 lbs. 3 oz.
Quieting 14.8 dBf/32 dBf (mono/stereo)
S/N 78 dB/75 dB (mono/stereo)
Response 20 Hz to 15 kHz, ± 0.75 dB/ (mono and stereo)
THD 0.5%, 30 Hz to 15 kHz (mono/stereo)
Separation 40 dB, 100 Hz to 10 kHz
Subcarrier 60 dB
Capture 0.9 dB
Selectivity 80 dB
Power 80 watts (19 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 80 watts
Response 6 Hz to 80 kHz, ± 0.75 dB

Sensitivity 2.2 mV (phono); 10 mV (high level) adjustable
Overload 120-500 mV (phono), adjustable
S/N 88 dB (phono); 98 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.25 dB
Bass ± 15 dB at 50 Hz
Treble ± 15 dB at 10 kHz
High filter 12 dB/octave above 9 kHz
Low filter 12 dB/octave below 30 Hz
Features Electronic switching; tape contouring control system; midrange control, ± 7 dB at 1 kHz; high filter #2, 6 dB/octave above 8 kHz; rosewood cabinet

Models also available

TR-2060, \$800; TR-2045, \$650

TECHNICS

Technics by Panasonic

One Panasonic Way
Secaucus, N.Y. 07094

SA-1000

Price \$1,700
Dimensions 7 1/2"H x 24 3/4"W x 21 1/8"D
Weight 87 lbs. 1 oz.
Quieting 12.8 dBf/36.2 dBf
S/N 83 dB/80 dB
Response 20 Hz to 18 kHz, +0.2, -0.8 dB (mono)
THD 0.1% (1 kHz)/same
Separation 50 dB (1 kHz)
Subcarrier 70 dB
Capture 1 dB
Selectivity 85 dB
Power 330 watts (25.8 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% at 330 watts
Response 20 Hz to 20 kHz, ± 0.2 dB; 5 Hz to 40 kHz, +0, -1 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 300 mV (phono)
S/N 97 dB (phono); 100 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.2 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 20 kHz
High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 30 Hz
Features LED power display; acoustic control; phono input capacitance and resistance selectors; midrange control (± 8 dB at 1 kHz); midrange cut/boost frequency adjustable from 250 Hz to 5 kHz

SA-700

Price \$700
Dimensions 6 1/2"H x 21 3/4"W x 15 1/2"D
Weight 39 lbs. 11 oz.
Quieting 13.2 dBf/36.2 dBf

S/N 77 dB/73 dB
Response 20 Hz to 15 kHz, +0.2 -0.8 dB (mono)
THD 0.1%/0.2% (1 kHz)
Separation 45 dB (1 kHz)
Subcarrier 70 dB
Capture 1 dB
Selectivity 80 dB
Power 100 watts (20 dBW) continuous from 20 Hz to 20 kHz at no more than 0.04% THD
IM 0.04% at 100 watts
Response 5 Hz to 90 kHz +0, -1 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 200 mV (phono)
S/N 95 dB (phono); 95 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.2 dB
Bass ± 12 dB at 50 Hz
Treble ± 12 dB at 20 kHz
High filter 6 dB/octave above 7 kHz
Low filter 6 dB/octave below 100 Hz
Features Midrange control (± 7 dB at 1 kHz); LED power display; acoustic control

SA-500

Price \$430
Dimensions 6 1/4"H x 19 1/8"W x 12 15/16"D
Weight 25 lbs. 2 oz.
Quieting 13.7 dBf/37.2 dBf
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz, +1, -2 dB (mono)
THD 0.15%/0.3% (1 kHz)
Separation 45 dB (1 kHz)
Subcarrier 50 dB
Capture 1.2 dB
Selectivity 70 dB
Power 55 watts (17.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.04% THD
IM 0.04% at 50 watts
Response 20 Hz to 20 kHz, ± 0.5 dB; 10 Hz to 40 kHz, -1 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 150 mV (phono)
S/N 90 dB (phono); 95 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.2 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 7 kHz
Low filter 6 dB/octave below 100 Hz
Features FGD filter; PLL; LED power display; acoustic control

SA-300

Price \$300
Dimensions 5 7/8"H x 18 1/8"W x 11 3/4"D
Weight 17.6 lbs.
Quieting 13.7 dBf/37.2 dBf
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz, +1, -2 dB
THD 0.15%/0.3% (1 kHz)

Separation 45 dB (1 kHz)
Subcarrier 50 dB
Capture 1.2 dB
Selectivity 70 dB
Power 35 watts (15.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.04% THD
IM 0.04% at 35 watts
Response 20 Hz to 20 kHz, ± 0.5 dB; 10 Hz to 30 kHz, -1 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 130 mV (phono)
S/N 90 dB (phono); 95 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.5 dB
Bass ± 10 dB at 50 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 7 kHz
Features MOSFET; FGD filter; PLL

Models also available

SA-800, \$800; SA-600, \$530; SA-400, \$360; SA-200, \$240; SA-80, \$200

THORENS

Elpa Marketing Industries, Inc.
 Thorens & Atlantic Aves.
 New Hyde Park, N.Y. 11040

AT-410

Price \$1,350
Dimensions 17 $\frac{3}{4}$ "H x 6"W x 15 $\frac{1}{2}$ "D
Weight 27 lbs. 12 oz.
Quieting 22.2 dBf
S/N 62 dB/62 dB
Response 30 Hz to 15 kHz, ± 1.5 dB
THD 0.5% (30 Hz)/0.22% (15 kHz)
Separation 40 dB, 30 Hz to 15 kHz
Subcarrier 57 dB
Capture 1.5 dB
Selectivity 70 dB
Power 50 watts (17 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
Response 20 Hz to 20 kHz, ± 0.5 dB
Sensitivity 2.5 mV (phono); 235 mV (high level)
Overload 70 mV (phono)
S/N 60 dB (phono); 62 dB (tuner); 60 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.5 dB
Bass ± 14 dB at 60 Hz
Treble ± 14 dB at 15 kHz
High filter 6 dB/octave above 9 kHz
Low filter 18 dB/octave below 60 Hz
Features Varactor tuning with 5 FM and 2 AM presets; switch noise suppressor circuit protects output from transients when switching power on or changing inputs

TOSHIBA

Toshiba America, Inc.
 280 Park Ave.
 New York, N.Y. 10017

SA-7150

Price \$1,100
Dimensions 79 6/10"H x 21 3/5"W x 19 7/10"D
Weight 59 lbs. 6 oz.
S/N 90 dB/95 dB
Response 10 Hz to 50 kHz

THD 0.05%
Separation 50 dB
Capture 1 dB
Power 150 watts (21.8 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
Overload 350 mV (phono)
Features Digitally synthesized

SA-735

Price \$300
Dimensions 5 7/10"H x 18 9/10"W x 15 7/10"D
Weight 25 lbs. 5 oz.
Response 10 Hz to 40 kHz
THD 0.08%
Separation 45 dB
Capture 1 dB
Power 35 watts (15.5 dBW)

Models also available

SA-7100, \$670; SA-775, \$550; SA-750, \$380

TUNGSRAM

Anglo American Audio
 P.O. Box 653
 Buffalo, N.Y. 11420

3535

Price \$495
Dimensions 3 3/5"H x 17 $\frac{1}{2}$ "W x 11 3/10"D
Weight 13 lbs. 3 oz.
S/N 40 dB
Response 20 Hz to 15 kHz, ± 1 dB
THD 0.3%
Separation 40 dB (1 kHz)
Capture 1.5 dB
Power 28 watts (14.5 dBW) continuous from 20 Hz to 35 kHz at no more than 0.2% THD
IM 0.2% at 35 watts
Response 10 Hz to 60 kHz
Sensitivity 1.5 mV (phono); 50 mV (high level)
S/N 65 dB (phono); 55 dB (tuner); 72 dB (aux)
Phono EQ 20 Hz to 20 kHz, ± 0.1 dB
Bass ± 18 dB at 40 Hz
Treble ± 16 dB at 12.5 kHz
High filter 3 dB/octave above 8.5 kHz
Low filter 3 dB/octave below 70 Hz
Features Touch (capacitance) control for selection of input and stations

YAMAHA

Yamaha International Corp.
 6600 Orangethorpe Ave.
 Buena Park, Calif. 90620

CR-3020

Price \$1,500
Dimensions 7 $\frac{1}{2}$ "H x 24 $\frac{3}{4}$ "W x 19 $\frac{1}{2}$ "D
Weight 82 lbs.
Quieting 15.3 dBf/37.2 dBf
S/N 80 dB/75 dB
Response 50 Hz to 10 kHz, ± 0.3 dB/30 Hz to 15 kHz, ± 0.5 dB
THD 0.07%/0.09% (100 Hz)
Separation 52 dB (1 kHz)
Subcarrier 70 dB
Capture 1 dB
Selectivity 85 dB

Power 160 watts (22 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.02% at 80 watts
Response 5 Hz to 100 kHz, ± 2 dB
Sensitivity 2 mV (phono); 120 mV (high level)
Overload 310 mV (phono)
S/N 96 dB (phono); 100 dB (aux)
Bass ± 15 dB at 50 Hz
Treble ± 12 dB at 20 kHz
High filter 12 dB/octave above 8 kHz or 12 kHz
Low filter 12 dB/octave below 15 Hz or 70 Hz
Features Built-in head amp; NFB-PLL-MPX; Auto DX; independent recording and audition

CR-2040

Price \$860
Dimensions 6 9/16"H x 22 13/16"W x 16"D
Weight 44 lbs. 14 oz.
Quieting 15.3 dBf/36.1 dBf
S/N 90 dB/84 dB
Response 50 Hz to 10 kHz, ± 0.4 dB/30 Hz to 15 kHz, ± 0.4 , -1 dB
THD 0.07% (100 Hz)/0.09% (100 Hz)
Separation 50 dB (50 Hz to 10 kHz)
Subcarrier 70 dB
Capture 1.5 dB
Selectivity 82 dB
Power 120 watts (20.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.02% at 120 watts
Response 20 Hz to 20 kHz, ± 0.2 dB
Sensitivity 2.5 mV (phono); 270 mV (high level)
Overload 270 mV (phono)
S/N 9.5 dB (phono); 90 dB (tuner); 100 dB (aux)
Bass ± 10 dB at 100 to 500 Hz (continuously variable)
Treble ± 10 dB at 2 to 8 kHz (continuously variable)
High filter 6 dB/octave above 10 kHz; 6 dB/octave above 6 kHz
Low filter 12 dB/octave below 25 Hz
Features Auto local/DX mode selection; built-in moving-coil head amps; presence control; ± 6 dB from 1 to 5 kHz (continuously variable)

CR-220

Price \$235
Dimensions 5 $\frac{3}{4}$ "H x 17 $\frac{1}{8}$ "W x 12 $\frac{7}{8}$ "D
Weight 16 lbs. 8 oz.
Quieting 17.3 dBf/39.2 dBf
S/N 70 dB/65 dB
Response 50 Hz to 10 kHz, ± 0.5 dB/30 Hz to 15 kHz, ± 1 , -3 dB
THD 0.2%/0.3% (100 Hz)
Separation 30 dB at 50 Hz
Subcarrier 40 dB
Capture 1.5 dB
Selectivity 60 dB
Power 15 watts (11.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.025% at 7.5 watts
Response 20 Hz to 20 kHz, ± 0.5 dB
Sensitivity 2 mV (phono); 120 mV (high level)
Overload 90 mV (phono)
S/N 90 dB (phono)
Bass ± 14 , ± 10 dB at 50 Hz
Treble ± 12 , ± 10 dB at 20 kHz
Low filter 12 dB/octave
Features Continuously variable loudness contour

Models also available

CR-1040, \$660; CR-840, \$495; CR-640, \$395

Phono Equipment

Tonearms

ADC
Audio Dynamics Corp.
Pickett District Road
New Milford, Conn. 06776

LMF-2
Price \$215
Length 9 1/3", to stylus
Eff. mass 8 grams
VTF 0 to 1.5 grams
Antiskating 0 to 2 grams
Resonance 10 Hz (with ADC ZLM Improved cartridge)
Track. error 0 degrees at 3.2" R
Headshell Removable
Features Same as LMF-1, plus removable headshell

LMF-1
Price \$205
Length 9 1/3", pivot to stylus
Eff. mass 5.5 grams
VTF 0 to 1.5 gram
Antiskating 0 to 2 grams
Resonance 10 Hz (with ADC ZLM Improved cartridge)
Track. error 0 degree at 3.2" R
Headshell Fixed
Features Tapered carbon-fiber arm with a low-mass-to-high-tensile-strength ratio; hand-picked stainless steel instrument bearings, micron-polished for virtually frictionless movement; compatible with all high quality magnetic cartridges between 4 and 11 grams in weight

ALT-1
Price \$149.95
Length 9 1/3", pivot to stylus
Eff. mass 7.0 grams
VTF 0 to 4 grams
Antiskating 0 to 4 grams
Resonance 10 Hz (with ZLM Improved cartridge)
Track. error 0 degrees 2.7" in radius
Headshell Removable
Features Aluminum arm with removable carbon fiber headshell

AUDIO-TECHNICA
Audio Technica U.S., Inc.
33 Shiawassee Ave.
Fairlawn, Ohio 44313

AT-1010
Price \$350
Length 9 1/2", pivot to stylus
Eff. mass 10 grams
VTF 0 to 2.5 grams
Antiskating 0 to 2.5 grams
Resonance 10 Hz (with AT-14Sa cartridge)
Track. error 1.5 degrees
Headshell Removable
Features Dynamic Tracing System eliminates change in tracking force as groove modulation varies; adjustable damping and lateral balance; interchangeable diecast magnesium headshell

AT-1009
Price \$175
Length 9 1/2", pivot to stylus
Eff. mass 11 grams
VTF 0 to 2.5 grams
Antiskating 0 to 2.5 grams
Resonance 10 Hz (with AT-14Sa cartridge)
Track. error 1 degree, 30 min
Headshell Removable
Features Pneumatic cueing with remote actuator; tracking force readable to 0.1 gram; antiskating may be adjusted while arm is in operation; extra AT-D universal headshell available separately at \$12

ATP-16T
Price \$150
Length 11", pivot to stylus
VTF 0 to 5 grams
Resonance 10 Hz (with ATP-2 cartridge)
Track. error 1 degree, 30 min
Headshell Removable
Features Same, as ATP-12T, except greater effective length to play 16" transcriptions

ATP-12T
Price \$150
Length 10", pivot to stylus
VTF 0 to 5 grams
Resonance 12 Hz (with ATP-2 cartridge)
Track. error 1 degree, 55 min
Headshell Removable
Features "Bulletproof" tonearm for rugged professional applications; thumbscrews and locking set-screws provided for major adjustments; extra ATP-H universal headshell available separately at \$12

AT-1005
Price \$85
Length 9 1/2", pivot to stylus
Eff. mass 13 grams
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 11 Hz (with AT-14Sa cartridge)
Track. error 1 degree, 30 min
Headshell Removable
Features Optional AT-L2 hydraulic lift, \$17; extra AT-S universal headshell available separately \$8

CONNOISSEUR
Hervic Electronics, Inc.
18750 Oxnard St., #406
Tarzana, Calif. 91356

SAU-4
Price \$135
Length 8 7/16", pivot to stylus
Friction 10 mg
Eff. mass 4 to 6 grams (adjustable)
VTF 0 to 4 grams
Antiskating 0 to 4 grams
Track. error 0 degrees at 2 2/5" radius
Headshell Removable
Features Viscous damped unipivot with pendant balance antiskate weight (graduated); built-in spirit level; cueing damped in both directions; plug-in audio cables

SAU-2
Price \$80
Length 10", pivot to stylus
Friction 75 mg
Eff. mass 4 to 6 grams (adjustable, decoupled)
VTF 1/4 to 6 grams
Antiskating 3/4 to 3 grams
Headshell Removable
Features Double gimbal ball bearings tilted 45 degrees for image stability; detachable headshell; fully adjustable arm; cueing damped in both directions; plug-in audio cable

DECCA
Rocelco, Inc.
1669 Flint Road
Downsview, Ontario M3J 2J7
Canada

Decca International Tonearm
Price \$149.50
Length 9 1/2" ", to stylus
Eff. mass 9 grams
VTF 0 to 3.5 grams
Antiskating 1/4 to 3 grams
Resonance 10 Hz (with Decca Gold or Plum cartridge)
Track. error 0 degrees at 2.4" radius
Headshell Removable
Features Jeweled unipivot bearing; magnetic antiskating; magnetic suspension; silicon viscous-damped

DENON
American Audioport
1407 N. Providence Road
Columbia, Mo. 65201

DA-401
Price \$350

Length 9 5/8", pivot to stylus
Friction 25 mg
Eff. mass 6 grams
VTF 0 to 2 grams
Antiskating 0 to 2 grams
Resonance 7 Hz (with DL-303 cartridge)
Track. error 0 degrees at 2 3/4" in radius
Headshell Removable
Features Contoured magnetic non-contact antiskating; all electrical connections gold plated; static balanced; dynamic damping

DA-307

Price \$255
Length 9 1/2", pivot to stylus
Eff. mass 11 grams
VTF 0 to 2.5 grams
Antiskating 0.5 to 3 grams
Resonance 8 Hz (with Denon DL-103D cartridge)
Track. error 2.5 degrees
Headshell Removable
Features Oil-damped cueing; contoured magnetic antiskate; laser interferometry designed arm tube; gold contacts

DA-309

Price \$220
Length 9 1/2", pivot to stylus
Eff. mass 16 grams
VTF 0 to 2.5 grams
Antiskating 0.5 to 3 grams
Resonance 7 Hz (with DL-103D cartridge)
Track. error 2.5 degrees
Headshell Removable
Features Oil-damped cueing; contoured magnetic antiskating; all wiring interfaces gold-plated

FIDELITY RESEARCH OF AMERICA

Fidelity Research, Inc.
P.O. Box 5242
Ventura, Calif. 98003

FR-66s

Price \$1,250
Length 12", pivot to stylus
Friction 5 mg
Eff. mass 38 grams (with FR/S-3 headshell)
VTF 0 to 5 grams
Antiskating 0.5 to 3 grams
Resonance 6.7 Hz (with FR Mk 2 or FR-1 Mk 3F cartridge and FR/S-3 headshell)
Track. error +1 degree, 40 min to 0 degree, 36 min
Headshell Removable
Features Nonmagnetic stainless steel seamless tube, vertical and lateral ball bearings; 16" transcription tonearm; stylus force applied by linear dynamic balance spring; special stabilizer on bottom of pillar post allows adjustment of tracking angle of stylus while playing records; 6 gold-plated connector pins to tonearm cable; Model FR-66s available for \$1,300 with silver wires in tonearm from head shell connector to pillar post connector

FR-64s

Price \$600
Length 9 1/2", to stylus to stylus
Friction 5 mg
Eff. mass 30 grams (with FR-1 Mk 2 or FR-1 Mk 3F cartridge and FR/S-3 headshell)
VTF 0 to 5 grams
Antiskating 0.5 to 5 grams (weight and lever)
Resonance 7 Hz (with FR-1 Mk 2 or FR-1 Mk 3F cartridge)

Track. error +1 degree, 40 min to -1 degree, 20 min

Features Nonmagnetic stainless steel construction; gold-plated output connectors; stylus force set by linear dynamic balance spring with 0.5 gram adjustment; accessories available include a heavy stabilizer (nonadjustable) and adjustable arm stabilizer for changing stylus tracking angle while playing record; also available as Model FR-64ss for \$640 with silver wire inside tonearm from cartridge attachment to the pillar post

FR-14

Price \$400
Length 9 7/10", pivot to stylus
Friction 5 mg
Eff. mass 14 grams
VTF 0 to 3 grams
Antiskating 0 to 5 grams
Resonance 8.1 Hz (with FR-1Mk 3F cartridge)
Track. error 1 degree, 50 min at 2 2/5" radius; -1 degree, 20 min at 4 4/5"
Headshell Removable
Features Collar on tonearm permits antiskating to be set to become effective at first record groove; adjustable in 1/2-gram increments

FR-12

Price \$400
Length 9", pivot to stylus
Friction 5 mg
Eff. mass 33 grams
VTF 0 to 3 grams
Antiskating 0 to 5 grams (adjustable in half-gram increments)
Resonance 8 Hz (with FR-1Mk 2 and FR-1Mk 3F cartridges)
Track. error +2 degrees, 57 min; -0 degrees, 56 min
Headshell Removable
Features This arm designed specifically for turntables such as Linn Sondek, Connoisseur, ERA, etc.; headshell machined from solid block of aluminum; weight: 12 grams

GRACE

Sumiko, Inc.
Box 5046
Berkeley, Calif. 94705

G-1040

Price \$300
Length 9 1/2", pivot to stylus
Friction 10 mg
Eff. mass 9.5 grams
VTF 0 to 3 grams
Antiskating 0 to 2 grams
Resonance 10 Hz (with Grace F-9L cartridge)
Track. error 1.5 degrees
Headshell Removable

G-704

Price \$275
Length 9 1/2", pivot to stylus
Friction 3 mg
Eff. mass 6.5 grams
VTF 0 to 3 grams
Resonance 10 Hz (with Supex SD-900/E+ cartridge)
Track. error 1.5 degree
Features Unipivot, oil-damped tonearm

G-714

Price \$275
Length 9 1/2", pivot to stylus
Friction 3 mg
Eff. mass 7 grams
VTF 0 to 3.3 grams
Resonance 10 Hz (with Supex SD-900/E+ cartridge)
Track. error 1.5 degree

Features Unipivot, oil-damped, wooden (teak) tonearm

G-945

Price \$325
Length 9 1/2", pivot to stylus
Friction 5 mg
Eff. mass 9.5 grams
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 8 Hz (with Supex SD-900/E+ cartridge)
Track. error 1.5 degree
Features Unipivot, oil-damped tonearm

G-707

Price \$190 (\$200 black)
Length 9 1/2", pivot to stylus
Friction 10 mg
Eff. mass 4.5 grams
VTF 0 to 3 grams
Antiskating 0 to 2 grams
Resonance 10 Hz (with Grace F-9L cartridge)
Track. error 1.5 degree
Headshell Fixed
Features Ultra-low mass; decoupled counter-weight; low-friction aircraft bearings

KEITH MONKS

Keith Monks (Audio), U.S.A.
652 Glenbrook Road
Glenbrook, Conn. 06906

M-9BA Mk III

Price \$179.95
Length 9", pivot to stylus
Friction 4 mg lateral and vertical
Eff. mass 6 grams/cartridge tracking at 1 gram
VTF 0.5 to 2.5 grams
Antiskating 0.5 to 2.5 grams
Resonance 13 Hz (with 6 gram cartridge mass at 25 CU dynamic compliance at 1 gram pressure)
Track. error 0 degrees at 2.375" radius
Headshell Fixed
Features No wires thru pivot point; top arm removes completely to allow easy change of cartridges with interchangeable prebalanced arms

LINN PRODUCTS

Audiophile Systems
5750 Rymark Court
Indianapolis, Ind. 46250

LV-II

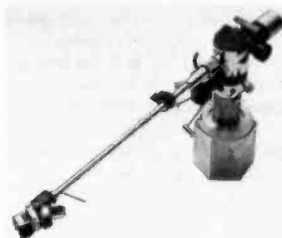
Price \$450
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Headshell Fixed

LUSTRE

Sumiko, Inc.
Box 5046
Berkeley, Calif. 94705

GST-801

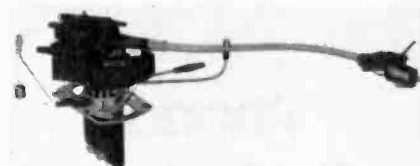
Price \$500
Length 9 3/5", pivot to stylus
Friction 2.0 mg
VTF 0.3 to 2.5 grams
Antiskating 0.0 to 2.5 grams
Track. error 1.1 degree
Headshell Removable



Osawa AC-300 Mk II



Signet XK-50



SME Series III

Features Dynamic balance; magnetic VTF; magnetic antiskate; silver lead wires; damped pipe; VTA fully adjustable by helicoid; magnesium alloy headshell

GST-1

Price \$175
Length 9½", pivot to stylus
Friction 10 mg
Eff. mass 8.5 grams
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 10 Hz (with Grace SF-90 cartridge)
Track. error 1.5 degree
Features Special pleated internal damping

MICHELL ENGINEERING

J. A. Michell Engineering, Ltd.
 5930 Penfield Ave.
 Woodland Hills, Calif. 91367

Focus

Price \$225
Length 9 3/10", pivot to stylus
Eff. mass 5 grams
VTF ½ to 6 grams
Antiskating ½ to 6 grams
Resonance 8 Hz (with Grado III cartridge)
Track. error 0.5 degrees at 8" radius
Headshell Removable
Features 23.75 degree headshell offset angle; fixed pivot to stylus length; double aluminum tube (concentric); triple vane damping in vertical plane on unipivot

MICRO SEIKI

Great American Sound
 20940 Lassen St.
 Chatsworth, Calif. 91311

MA-505LS

Price \$375

CF-1

Price \$225

SHURE

Shure Bros, Inc.
 222 Hartrey Ave.
 Evanston, Ill. 60204

M236

Price \$51.50
Length 8¼", pivot to stylus
VTF 1.5 or more grams
Features For 16" recordings; full range of adjustments for static and dynamic balance, cartridge overhang, arm height, etc.

M232

Price \$47.50
Length 8¼", pivot to stylus
VTF 1.5 or more grams
Headshell Removable
Features For 12" recordings; full range of adjustments for static and dynamic balance, cartridge overhang, arm height, etc.

SIGNET

Signet Co.
 33 Shiawassee Ave.
 Fairlawn, Ohio 44313

XK-50

Price \$400
VTF 0.1 to 1.6 grams
Antiskating 0 to 2.5 grams
Resonance 10 Hz (with high compliance cartridge)
Headshell Fixed
Features Signatrace[®] damped planar tracking

SME

Shure Bros. Inc.
 222 Hartrey Ave.
 Evanston, Ill. 60204

Series III

Price \$294
Length 9", pivot to stylus
Friction 20 mg
Eff. mass 5 grams
VTF 0 to 2.5 grams
Antiskating 0 to 2.5 grams
Resonance 11 to 12 Hz (with V15 Type IV cartridge)
Track. error 1.5 degrees at 5.5" radius
Headshell Removable
Features Fluid damper; titanium cartridge-carrying arm is detachable near pivot

3009 Series III-S

Price \$225
Length 9", pivot to stylus
Headshell Removable
Features Fluid damper FD-III-S is available at \$41; carrier arm

3009 S/2

Price \$174
Length 9", pivot to stylus
Friction 20 mg
Eff. mass 8 grams
VTF 0 to 1.5 grams
Antiskating 0 to 1.5 grams
Resonance 8 to 9 Hz (with V15 Type III cartridge)
Track. error 1.5 degrees at 5.5" radius
Headshell Removable
Features Fluid damper FD200 available at \$54.60

3009 Series II Improved

Price \$162
Length 9", pivot to stylus
Friction 20 mg
Eff. mass 6 grams
VTF 0 to 1.5 grams
Antiskating 0 to 1.5 grams
Resonance 9 to 10 Hz (with V15 Type III cartridge)
Track. error 1.5 degrees at 5.5" radius
Headshell Fixed
Features Fluid damper FD200 available at \$54.60

STAX

American Audioport
 1407 N. Providence Rd.
 Columbia, Mo. 62501

UA-7cf

Price \$310
Length 9½", pivot to stylus
Friction 10 mg
Eff. mass 12 grams
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 7 Hz (with Denon DL-103D cartridge)
Track. error 0.10 degrees
Headshell Removable
Features Unipivot, contoured antiskate, carbon-fiber arm tube

ULTRACRAFT

Osawa & Co. (U.S.A.), Inc.
 521 Fifth Ave.
 New York, N.Y. 10017

AC-3000 Mk II

Price \$500
Length 9½", pivot to stylus
VTF 0 to 2 grams
Antiskating 0 to 2 grams
Track. error 2.5 degrees
Headshell Fixed
Features Adjustable oil-damped; single needle-point support system; interchangeable plug-in, low-mass arm sections (incl. cartridge mounting); height-adjustable cueing lever; black anodized brass

AC-300 Mk II

Price \$325
Length 9½", pivot to stylus
VTF 0 to 2 grams
Antiskating 0 to 2 grams
Track. error 2.5 degrees
Headshell Fixed
Features Adjustable oil-damped; single needle-point support system; interchangeable plug-in, low-mass arm sections (incl. cartridge mounting); oil-damped, height-adjustable cueing lever; additional arm stems available for \$60 each

Phono Cartridges

ADC
Audio Dynamics Corp.
Pickett District Road
New Milford, Conn. 06776

ZLM Improved

Price \$135
Type Induced magnet
Stylus Aliptic: 0.2 x 1.5 mil
VTF .75 to 1.25 grams
Compliance 36 x 10⁻⁶ cm/dyne lateral
Output 1 mV at 1 cm/sec at 1 kHz
Response 10 Hz to 20 kHz, ±1 dB; 20 kHz to 26 kHz, ±1.5 dB
Separation 30 dB at 1 kHz; 20 dB at 10 kHz
Vertical angle 20 degrees
Load 47K; 275 pF
Features Aliptic tip combined with tapered cantilever for extremely low mass; effective moving mass: 0.37 mg

XLM Mk III Integra

Price \$120
Type Induced magnet
Stylus 0.2 x 0.7 mils nude elliptical (geometry)
VTF 1.2, ±0.3 grams
Compliance 32 x 10⁻⁶ cm/dyne lateral
Output 1 mV at 1 cm/sec at 1 kHz
Response 10 Hz to 20 kHz, ±1 dB; 20 kHz to 24 kHz, ±1.5 dB
Separation 28 dB at 1 kHz; 18 dB at 10 kHz
Vertical angle Adjustable
Load 47 K; 275 pF
Features Carbon fiber headshell; calibrated overhang adjustment

QLM 36 Mk III Improved

Price \$79.95
Type Induced magnet
Stylus Diasa elliptical; 0.3 x 0.7 mil
VTF 0.75 to 1.5 gram
Compliance 32 x 10⁻⁶ cm/Dyne lateral
Output 1.1 mV at 1 cm/sec at 1 kHz
Response 15 Hz to 20 kHz, ±2 dB
Separation 26 dB at 1 kHz; 15 dB at 10 kHz
Vertical angle 20 degrees
Load 47K; 275 pF
Features Diamond tip bonded to a sapphire base for lower cost while maintaining all qualities necessary for wide frequency response and separation; effective moving mass: 0.48 mg

XLM Mk I Integra

Price \$69.95
Type Induced magnet
Stylus 0.4 x 0.7 mils elliptical (geometry)
VTF 1.1 to 1.9 grams
Output 1.2 mV at 1 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ±2 dB
Separation 24 dB at 1 kHz
Vertical angle Adjustable
Load 47 K; 275 pF

QML 33 Mk III

Price \$54.95
Type Induced magnet
Stylus 0.7 mils spherical

VTF 1 to 2 grams
Compliance 21 x 10⁻⁶ cm/dyne lateral
Output 1.3 mV at 1 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ±3 dB
Separation 24 dB at 1 kHz
Vertical angle 20 degrees
Load 47 K; 275 pF
Features Effective moving mass: 0.9 mg

Models also available

XLM Mk III Improved, \$110; XLM MKII Integra, \$110; QLM 34 Mk III, \$64.95; QLM 32 Mk III, \$49.95; QLM 30 Mk III, \$34.95

ADCOM

Adcom
11A Jules Lane
New Brunswick, N.J. 08901

CXC-2505

Price \$250
Type Moving coil
Stylus 0.25 x 1.5 mils Shibata 3 (geometry)
VTF 1.7 to 2.3 grams
Compliance 13 lateral; 11 vertical
Output 2.5 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 50 kHz, ±2 dB
Separation 28 dB at 1 kHz
Vertical angle 20 degrees
Load 47K
Features Crosscoil armature; low mass: 5.5 grams; beryllium cantilever

CXC-230 HE

Price \$230
Type Moving coil
Stylus 0.2 x 1.0 mils hyperelliptical (geometry)
VTF 1.7 to 2.3 grams
Compliance 13 lateral; 11 vertical
Output 2.5 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 50 kHz, ±2 dB
Separation 28 dB at 1 kHz
Vertical angle 20 degrees
Load 47K
Features Crosscoil armature; low mass: 5.5 grams; aluminum cantilever

CFC-200S

Price \$200
Type Moving coil
Stylus 0.25 x 1.5 mils Shibata 3 (geometry)
VTF 1.7 to 2.3 grams
Compliance 13 lateral; 11 vertical
Output 0.3 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 50 kHz, ±2 dB
Separation 28 dB at 1 kHz
Vertical angle 20 degrees
Features Low-output version of crosscoil design; low mass: 5.5 grams; beryllium cantilever

Models also available

CXC-190E, \$190; CFC-180HE, \$180; CFC-160E, \$160

AKG

AKG Acoustics
91 McKee Drive
Mahwah, N.J. 07430

P-8ES

Price \$165
Type Moving iron
Stylus Elliptical; 0.2 x 0.7 mil
VTF 0.75 to 1.25 gram

Compliance 35 x 10⁻⁶ cm/dyne lateral; 35 x 10⁻⁶ cm/dyne vertical
Output 3.75 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 28 kHz
Separation 30 dB at 1 kHz
Load 47K; 470 pF
Features Individual response curve; employs patented transversal suspension

P-7E

Price \$80
Type Moving iron
Stylus Elliptical, 0.3 x 0.7 mil
VTF 1.25 to 2.25 grams
Compliance 25 x 10⁻⁶ cm/dyne lateral; 25 x 10⁻⁶ cm/dyne vertical
Output 4.5 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 21.5 kHz
Separation 25 dB at 1 kHz
Load 47K; 470 pF
Features Employs patented transversal suspension

P-6E

Price \$60
Type Moving iron
Stylus Elliptical; 0.4 x 0.8 mil
VTF 1.5 to 3 mils
Compliance 20 x 10⁻⁶ cm/dyne lateral; 20 x 10⁻⁶ cm/dyne vertical
Output 6.25 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz
Load 47K; 470 pF
Features Employs patented transversal suspension

Models also available

P-8E, \$115; P-6R, \$50L

ANDANTE

Sumiko, Inc.
Box 5046
Berkeley, Calif. 94705

E

Price \$90
Type Moving magnet
Stylus Elliptical; 0.2 x 0.8 mil
VTF 1 to 1.9 gram
Compliance 20 x 10⁻⁶ cm/dyne lateral; 18 x 10⁻⁶ cm/dyne vertical
Output 4.0 mV at 5.0 cm/sec at 1 kHz
Response 12 Hz to 30 kHz, ±5 dB
Separation 30 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 250 pF

S

Price \$65
Type Moving magnet
Stylus Spherical; 0.5 mil
VTF 1.0 to 2.5 grams
Compliance 18 x 10⁻⁶ cm/dyne lateral, 14 x 10⁻⁶ cm/dyne vertical
Output 4.0 mV at 5 cm/sec at 1 kHz
Response 18 Hz to 27 kHz, ±5 dB
Separation 28 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 250 pF

AUDIO-TECHNICA

Audio Technica U.S., Inc.
33 Shiawassee Ave.
Fairlawn, Ohio 44313

AT-32

Price \$300
Type Moving coil

Stylus 0.2 x 0.7 mils nude-mounted elliptical
VTF 1 to 2 grams
Output 0.4 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 24 kHz
Separation 30 dB at 1 kHz (or from 20 dB at 10 kHz)
Load 17K
Features Beryllium cantilever

AT-25

Price \$275
Type Moving magnet with toroidal coils
Stylus 0.2 x 0.7 mils nude-mounted elliptical
VTF 0.8 to 1.6 grams
Output 2.2 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 25 kHz
Separation 35 dB at 1 kHz (or from 25 dB at 10 kHz)
Load 47K; 100 to 200 pF
Features Beryllium cantilever; integrated headshell plugs directly into most Japanese and European tonearms; non-resonant magnesium alloy; calibrated overhang adjustment

AT-20SS

Price \$250
Type Dual moving magnet
Stylus Shibata+
VTF 0.75 to 1.75 grams
Output 2.7 mV at 5 cm/sec at 1 kHz
Response 5 Hz to 50 kHz
Separation 30 dB at 1 kHz (25 dB at 10 kHz)
Vertical angle 20 degrees
Load 47K; 100 pF
Features Hand-selected version of AT-15SS; availability limited

AT-23a

Price \$225
Type Moving magnet with toroidal coils
Stylus 0.2 x 0.7 mils (nude-mounted natural diamond)
VTF 0.9 to 1.7 grams
Output 2.2 mV at 5 cm/sec at 1 kHz
Response 15 Hz to 23 kHz
Separation 30 dB at 1 kHz (or from 20 dB at 10 kHz)
Load 47K; 100 to 200 pF
Features Beryllium cantilever; integrated headshell plugs directly into most Japanese and European tonearms; non-resonant magnesium alloy; calibrated overhang adjustment

AT-15SS

Price \$200
Type Dual moving magnet
Stylus Shibata+
VTF 0.75 to 1.75 gram
Output 2.7 mV at 5 cm/sec at 1 kHz
Response 5 Hz to 45 kHz
Separation 33 dB at 1 kHz (23 dB at 10 kHz)
Vertical angle 20 degrees
Load 47K; 100 pF
Features Gold-plated die-cast case for stability; supplied with individual machine-run response curve; beryllium cantilever also available as AT15Aa/H, premounted in universal headshell, \$158

AT-15XE

Price \$175
Type Dual moving magnet
Stylus Elliptical; 0.2 x 0.7 mil
VTF 0.75 to 1.75 gram
Output 2.7 mV at 5 cm/sec at 1 kHz
Response 5 Hz to 30 kHz
Separation 32 dB at 1 kHz (22 dB at 10 kHz)
Vertical angle 20 degrees
Load 47K; 100 pf

Features Elliptical version of AT-15SS; supplied with individual machine-run response curve

AT-30E

Price \$125
Type Moving coil
Stylus 0.3 x 0.7 mils nude-mounted elliptical (geometry)
VTF 1.4 to 2 grams
Output 0.28 mV at 5 cm/sec
Response 15 Hz to 25 kHz
Separation 25 dB at 1 kHz (or from 15 Hz to 10 kHz)
Load 20K
Features User replaceable stylus; AT-630 matching transformer available for \$95

ATP-3

Price \$80
Type Dual moving magnet
Stylus Elliptical; 0.3 x 0.7 mil
VTF 2 to 3 grams
Output 5.3 mV at 5 cm/sec at 1 kHz
Response 15 Hz to 25 kHz
Separation 23 dB at 1 kHz (17 dB at 10 kHz)
Load 47K; 100 pF
Features High visibility coating on cantilever tip eases cueing in poor light

AT-12E

Price \$70
Type Dual moving magnet
Stylus Elliptical; 0.4 x 0.7 mil
VTF 1 to 2 grams
Output 4.2 mV at 5 cm/sec at 1 kHz
Response 15 Hz to 26 kHz
Separation 27 dB at 1 kHz (18 dB at 10 kHz)
Vertical angle 20 degrees
Load 47K; 100 pF

ATP-2

Price \$60
Type Dual moving magnet
Stylus Elliptical; 0.4 x 0.7 mil
VTF 3 to 5 grams
Output 5.3 mV at 5 cm/sec at 1 kHz
Response 15 Hz to 22 kHz
Separation 23 dB at 1 kHz (17 dB at 10 kHz)
Load 47K; 100 pF
Features High visibility coating on cantilever tip eases cueing in poor light

Models also available

AT-24, \$250; AT-22, \$200; AT-14Sa, \$150; AT-12Sa, \$120; AT-13Ea, \$100; AT-12XE, \$85; AT-11E, \$60; AT-11, \$50; ATP-1 Cartridge, \$45; AT-10, \$40

BANG & OLUFSEN

Bang & Olufsen of America, Inc.
515 Busse Road
Elk Grove Village, Ill. 60007

MMC-20CL

Price \$200
Type Moving micro-cross
Stylus Contact line naked diamond (geometry) 1 gram
Compliance 40 lateral; 30 vertical
Output 2.12 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 1 dB
Separation 30 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 220 pF
Features 0.3 mg effective tip mass; single crystal sapphire cantilever; see-through stylus guard; response graph included

MMC-20EN

Price \$125
Type Moving micro-cross
Stylus 5 x 17 mils naked elliptical (geometry)
VTF 1.2 grams
Compliance 32 lateral; 25 vertical
Output 2.12 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 2 dB
Separation 25 dB at 1 kHz
Vertical angle 20 degrees
Load 47 K; 220 pF
Features 0.4 mg effective tip mass; replacement \$95; not load-sensitive

C-20S/MB

Price \$45
Type Moving micro-cross
Stylus 15 mils framed spherical (geometry)
VTF 1.5 grams
Compliance 27 lateral; 20 vertical
Output 2.12 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 3 dB
Separation 20 dB at 1 kHz
Vertical angle 20 degrees
Load 47 K; 220 pF
Features 0.5 mg. effective tip mass

Models also available

MMC-20E, \$70

DECCA

Rocelco, Inc.
1669 Flint Road
Downsview, Ontario M3J 2J7
Canada

Mk V1 Gold

Price \$199.50
Type Moving iron
Stylus Elliptical; 0.6 x 0.3 mil
VTF 1.5 gram
Compliance 15 x 10⁻⁶ cm/dyne lateral; 7.5 x 10⁻⁶ cm/dyne vertical
Output 5 mV at 5 cm/sec
Response 20 Hz to 20 kHz
Vertical angle 15 degrees
Load 50K; 250 to 300 pF
Features "Positive Scanning" no-cantilever suspension system for improved transient response

Models also available

Decca MK V1 Plum, \$149.50

DENON

American Audioport
1407 N. Providence Road
Columbia, Mo. 65201

DL-303

Price \$385
Type Moving coil
Stylus 1.97 x 3.94 mils special elliptical (geometry)
VTF 1.0 to 1.4 grams
Compliance 13 x 10⁻⁶ cm/dyne vertical at 100 Hz
Output 0.2 mV at 50 cm/sec at 1 kHz
Response 70 kHz
Separation 28 dB at 1 kHz
Load 0.1K; 100 pF
Features Weight: 5.8 grams; tapered double construction cantilever; samarium cobalt magnet; one-point suspension system

DL-103s

Price \$186
Type Moving coil
Stylus Modified Shibata
VTF 1.5 to 2.1 grams
Compliance 8×10^{-6} cm/dyne lateral
Output 0.3 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 60 kHz
Separation 25 dB at 1 kHz
Load 40 ohms or more

DL-103

Price \$140
Type Moving coil
Stylus Conical; 0.65 mil
VTF 2.2 to 2.8 grams
Compliance 5×10^{-6} cm/dyne lateral
Output 0.3 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 45 kHz
Separation 25 dB at 1 kHz
Load 40 ohms or more
Features Available in a package (DL-103/T) with a nonswitchable 40-ohm transformer, at \$200

Models also available

DL-103D, \$267

DUAL

United Audio Products, Inc.
120 South Columbus Ave.
Mt. Vernon, N.Y. 10553

ULM-60E

Price \$150
Type Moving magnet
Stylus 6 x 18 mils biradial (geometry)
VTF 0.5 to 1.25 grams
Compliance 30×10^{-6} cm/dyne lateral; 35×10^{-6} cm/dyne vertical
Output 0.7 mV at 1 cm/sec at 1 kHz
Response 10 Hz to 30 kHz
Separation 28 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 400 pF
Features Same as ULM-50E

ULM-50E

Price \$80
Type Moving magnet
Stylus 6 x 18 mils biradial (geometry)
VTF 1.5 to 2.5 grams
Compliance 18×10^{-6} cm/dyne lateral; 20×10^{-6} cm/dyne vertical
Output 0.7 mV at 1 cm/sec at 1 kHz
Response 10 Hz to 25 kHz
Separation 25 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 400 pF
Features Cartridge with mounting hardware weighs 2.5 grams

Models also available

ULM-55E, \$110

EMPIRE

Empire Scientific Corp.
1055 Stewart Ave.
Garden City, N.Y. 11530

EDR.9

Price \$200
Type Moving iron variable reluctance
Stylus 0.3 x 3.0 mils LAC (geometry)
VTF 0.75 to 1.25 grams
Compliance 28 lateral; 28 vertical

Output 4.5 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 35 kHz, ± 1.75 dB
Separation 30 dB (or from 500 Hz to 10 kHz)
Vertical angle 20 degrees
Load 47K
Features Insensitive to capacitive loads; inertially damped, tuned stylus system

4000D/III

Price \$175
Type Moving iron/variable reluctance
Stylus LAC
VTF 0.75 to 1.25 gram
Compliance 30×10^{-6} cm/dyne lateral; 30×10^{-6} cm/dyne vertical
Output 3 mV at 3.54 cm/sec at 1 kHz
Response 10 Hz to 50 kHz, ± 3 dB
Separation 28 dB from 15 Hz to 1 kHz; 23 dB from 1 to 20 kHz; 15 dB from 20 to 50 kHz
Vertical angle 20 degrees
Load 100K; 100 pF
Features Wide-bandwidth design; tapered cantilever

2000Z

Price \$150
Type Moving iron/variable reluctance
Stylus Elliptical; 0.2 x 0.7 mil
VTF 0.75 to 1.25 gram
Compliance 30×10^{-6} cm/dyne lateral; 30×10^{-6} cm/dyne vertical
Output 3 mV at 3.54 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 1 dB
Separation 30 dB from 500 Hz to 15 kHz; 20 dB from 20 to 500 Hz; 25 dB from 15 to 20 kHz
Vertical angle 20 degrees
Load 47K; 300 pF
Features Ultra-low tip mass; low IM distortion; tapered cantilever

2000E/III

Price \$85
Type Moving iron/variable reluctance
Stylus Elliptical; 0.2 x 0.7 mil
VTF 0.75 to 1.5 gram
Compliance 20×10^{-6} cm/dyne lateral; 20×10^{-6} cm/dyne vertical
Output 4.5 mV at 3.54 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 2 dB
Separation 28 dB from 500 Hz to 15 kHz; 20 dB from 20 to 500 Hz; 20 dB from 15 to 20 kHz
Vertical angle 20 degrees
Load 47K; 400 to 500 pF
Features Low tip mass; tapered cantilever

2000E

Price \$50
Type Moving iron/variable reluctance
Stylus Elliptical; 0.3 x 0.7 mil
VTF 1.25 to 2.5 grams
Compliance 16×10^{-6} cm/dyne lateral; 16×10^{-6} cm/dyne vertical
Output 7 mV at 3.54 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 3 dB
Separation 23 dB from 500 Hz to 15 kHz; 18 dB from 20 to 500 Hz; 15 dB from 15 to 20 kHz
Vertical angle 20 degrees
Load 47K; 400 to 500 pF

Broadcast One

Price \$45
Type Moving iron/variable reluctance
Stylus Conical; 0.7 mil radius
VTF 2 to 3 1/2 grams
Compliance 14×10^{-6} cm/dyne lateral; 14×10^{-6} cm/dyne vertical
Output 4.5 mV at 3.54 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 1.5 dB
Separation 25 dB at 1 kHz (20 dB at 200 Hz; 15 dB at 10 kHz)
Vertical angle 20 degrees

Load 47K; 300 pF
Features Designed for broadcast and disco applications

2000

Price \$35
Type Moving iron/variable reluctance
Stylus Spherical; 0.7 mil
VTF 1.5 to 3 grams
Compliance 14×10^{-6} cm/dyne lateral; 14×10^{-6} cm/dyne vertical
Output 7 mV at 3.54 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 3 dB
Separation 21 dB from 500 Hz to 15 kHz; 16 dB from 20 to 500 Hz; 13 dB from 15 to 20 kHz
Vertical angle 20 degrees
Load 47K; 400 to 500 pF

Models also available

2000X, \$125; 4000D/I, \$100;
2000T, \$100; 2000E/II, \$70;
2000E/I, \$60

EMT

Gotham Audio Corp.
741 Washington St.
New York, N.Y. 10014

XSD-15

Price \$450
Type Moving coil
Stylus Conical; 0.6 mil
VTF 2 to 3 grams
Compliance 12×10^{-6} cm/dyne lateral
Output 0.15 mV at 1 cm/sec at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz
Load 0.8K
Features Frequency intermodulation less than 0.5%

FIDELITY RESEARCH

Fidelity Research, Inc.
P.O. Box 5242
Ventura, Calif. 93003

FR-1Mk7

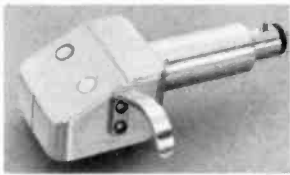
Price \$660
Type Moving coil
Stylus Elliptical (long-line contact)
VTF 2.0 to 3.0 grams
Compliance 6.5 lateral; 10^{-6} cm/dyne vertical
Output 0.2 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 45 kHz, +3, -0 dB
Separation -28 dB from 200 Hz to 10 kHz; -20 dB from 20 Hz to 200 Hz
Vertical angle 15 degrees
Load 3 ohms impedance
Features Moving-coil affixed to back end of cantilever; coil made from 99.9% pure silver wire; integral headshell

FR-1Mk2

Price \$150
Type Moving coil
Stylus Elliptical; 0.2 x 0.8 mil
VTF 1.5 to 2 grams
Compliance 12×10^{-6} cm/dyne vertical
Output 0.1 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 2 dB
Separation 27 dB at 1 kHz
Vertical angle 15 degrees
Load 30 ohms impedance
Features Requires booster transformer or built-in head amp



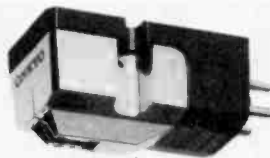
Audio-Technica AT-25



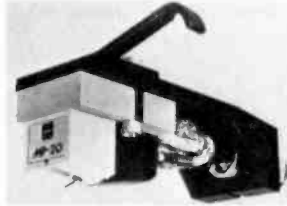
Fidelity Research FR-1 Mk 7



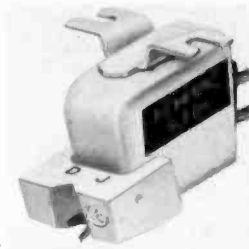
Ortofon Concorde



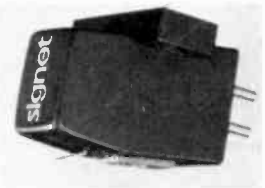
Onkyo MC-100



Osawa MP-20



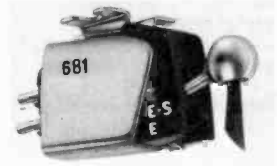
Pickering 625 DJ



Signet TK-9E



Shure V-15 Type IV



Stanton 681EEE 5-type

Models also available
FR-1Mk3F, \$230

FULTON
Fulton Electronics
4204 Brunswick Ave. N.
Minneapolis, Minn 55422

Fulton
Price \$350
Type Moving coil
Stylus 0.65 mils conical (geometry)
VTF 1.5 to 1.75 grams
Compliance 12 lateral; 10 vertical
Output 0.33 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 60 kHz, ± 0.5 dB
Separation 34 dB at 1 kHz
Vertical angle 20 degrees
Load 4 ohms trans. or 47 K; 30 pF

GOLDRING
Hervic Electronics, Inc.
14225 Ventura Blvd.
Sherman Oaks, Calif. 91423

G-900SE2
Price \$160
Type Moving magnet
Stylus 7 x 2 mils elliptical (geometry)
VTF .75 to 1.5 grams
Compliance 40 lateral; 20 vertical
Output 4.5 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 2 dB
Separation 25 dB (nominal) kHz
Vertical angle 24 degrees
Load 47K; 150 to 200 pF
Features Low mass: 4 grams; designed for low-mass tonearms (under 6 grams)

G-900E
Price \$95
Type Moving magnet
Stylus 7 x 3 mils elliptical (geometry)
VTF 1 to 3 grams (recommend 1.75 grams)
Compliance 24 lateral; 16 vertical
Output 6.5 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 3 dB
Separation 20 dB at 1 kHz
Vertical angle 24 degrees
Load 47K; 200 to 400 pF
Features Low mass: 4 grams; stylus change can upgrade C 900E to a G 900SE2; designed for high-mass tonearms

800 Super E
Price \$87
Type Moving magnet
Stylus Biradial; 0.3 x 0.7 mil
VTF 0.5 to 1.25 gram
Compliance 18 lateral (static)
Output 4 mV at 5 cm/sec
Response 10 Hz to 25 kHz
Separation 25 dB at 1 kHz
Load 47 to 100K; 200 to 400 pF
Features Low mechanical impedance; low mass cantilever

820 Super E
Price \$85
Type Moving magnet
Stylus Biradial; 0.3 x 0.7 mil
VTF 0.6 to 1.75 gram
Compliance 30 lateral (static)
Output 4 mV at 5 cm/sec
Response 10 Hz to 25 kHz
Separation 25 dB at 1 kHz
Load 47 to 100K; 200 to 400 pF
Features Special polymer at cantilever pivot point; restraining tie wire to restrict nonlinear distortion from fore-aft motion; carefully shielded from RF and hum fields; for transcription-grade tonearms

820
Price \$50
Type Moving magnet
Stylus 0.6 mil
VTF 1.5 to 4 grams
Compliance 20 C.U. lateral
Output 5 mV at 5 cm/sec
Response 20 Hz to 20 kHz
Separation 20 dB at 1 kHz
Load 47 to 100K; 200 to 400 pF
Features Special polymer pivot point; cantilever restraining wire for fore-aft-motion restraint

800 E
Price \$40
Type Moving magnet
Stylus Biradial, 0.3 x 0.7 mil
VTF 0.75 to 1.75 gram
Compliance 25 C.U. lateral
Output 5 mV at 5 cm/sec
Response 10 Hz to 23 kHz
Separation 20 dB at 1 kHz
Load 47 to 100K; 200 to 400 pF
Features Slender cantilever (end damped); conical hinge; for transcription-grade tone arms

Models also available
G-820 DJ, \$85; 820 E, \$60; 800, \$40; 800 H, \$40; 850, \$30

GRACE
Sumiko, Inc.
Box 5046
Berkeley, Calif. 94705

SF-90
Price \$250
Type Moving magnet
Stylus Advanced Luminal Trace; 0.2 x 0.7 mil
VTF 1 to 1.5 gram
Compliance 20 x 10⁻⁶ cm/dyne lateral; 20 x 10⁻⁶ cm/dyne vertical
Output 5.5 mV at 5.0 cm/sec at 1 kHz
Response 10 Hz to 40 kHz, ± 3 dB
Separation 30 dB at 1 kHz
Vertical angle 22 degrees
Load 47K; 250 pF
Features Integrated cartridge and headshell with Advanced Luminal Trace stylus permits an effective tip mass of 0.4 mg for lower record wear and longer stylus life

F-9L
Price \$160
Type Moving magnet
Stylus Luminal Trace; 0.2 x 0.7 mil
VTF 0.5 to 2 grams
Compliance 20 x 10⁻⁶ cm/dyne lateral; 18 x 10⁻⁶ cm/dyne vertical
Output 5.5 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 40 kHz, ± 3 dB
Separation 30 dB at 1 kHz
Vertical angle 22 degrees
Load 47K; 250 pF
Features Advanced Luminal Trace stylus permits an effective tip mass of 0.4 mg for lower record wear and longer stylus life

Models also available
F-8L, \$110

GREAT AMERICAN SOUND
Great American Sound Co.
20940 Lassen St.
Chatsworth, Calif. 91311

Shibata (B)
Price \$240
Type Moving coil
Stylus Biradial Shibata
VTF 1.8 gram
Compliance 15 x 10⁻⁶ cm/dyne lateral; 15 x 10⁻⁶ cm/dyne vertical
Output 0.27 mV at 5 cm/sec at 1 kHz
Response 5 Hz to 40 kHz, ± 3 dB
Separation 34 dB at 1 kHz

Vertical angle 18 degrees
Load 20 to 1K ohms; 10,000 pF or less
Features Beryllium-copper cantilever

Super-Elliptical (X)

Price \$200
Type Moving coil
Stylus Elliptical, 0.3 x 0.6 mil
VTF 1.8 gram
Compliance 15×10^{-6} cm/dyne lateral, 15×10^{-6} cm/dyne vertical
Output 0.27 mV at 5 cm/sec at 1 kHz
Response 5 Hz to 40 kHz, ± 3 dB
Separation 34 dB at 1 kHz
Vertical angle 18 degrees
Load 20 to 1K ohms, 10,000 pF or less
Features Beryllium-copper cantilever

Models also available
Spherical (S), \$160

LINN PRODUCTS Audiophile Systems 5750 Rymark Ct. Indianapolis, Ind. 46250

Linn-Asak DC-2100K

Price \$350
Type Moving coil
Stylus 0.3 x 0.8 mils modified elliptical (geometry)
VTF 1.6 to 2.2 grams

MICRO-ACOUSTICS Micro-Acoustics Corp. 8 Westchester Plaza Elmsford, N.Y. 10523

530-MP

Price \$200
Type Direct-coupled electret
Stylus Micro-Point
VTF 0.7 to 1.4 gram
Compliance 25×10^{-6} lateral; 20×10^{-6} vertical
Output 3.5 mV at 5 cm/sec
Response 5 Hz to 20 kHz, ± 1.25 dB
Separation 30 dB at 1 kHz
Vertical angle 15 degrees
Load 10 to 100K; 100 to 1,500 pF (not critical)
Features Playback stylus patterned after Micro-Point[®] recording stylus; full 2-year warranty; patented electret design; low mass

282-e

Price \$95
Type Direct-coupled electret
Stylus Elliptical, 0.2 x 0.7 mil
VTF 0.75 to 1.5 gram
Compliance 20×10^{-6} lateral; 15×10^{-6} vertical
Output 3.5 mV at 5 cm/sec
Response 5 Hz to 20 kHz, ± 2 dB
Separation 30 dB at 1 kHz
Vertical angle 15 degrees
Load 10 to 100K; 100 to 1,500 pF (not critical)
Features Full 2-year warranty; patented electret design; low mass

Models also available
2002-e, \$125

NAD NAD (USA), Inc. Mackintosh Lane P.O. Box 529 Lincoln, Mass. 01773

9000

Price \$160
Type Moving coil
Stylus 0.4 x 0.7 mils
VTF 1.2 to 1.8 grams
Output 1.8 mV at 3.54 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 2 dB
Separation 20 dB at 1 kHz
Load 47K; less than 1,000 pF (non-critical)
Features Low mass (under 6 grams); requires no head amp

NAGATRON Nagatronics Corp. P.O. Box 509 Baldwin, N.Y. 11510

HV-9100

Price \$275
Type Ribbon
Stylus Elliptical; 0.4 x 0.8 mils
VTF 1.6 to 2 grams
Output 0.04 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 30 kHz, ± 1.8 dB
Separation 25 dB at 1 kHz
Load 10 to 30K
Features Crystallized solid-titanium cantilever; integral headshell

9600

Price \$229
Type Induced magnet
Stylus Elliptical
VTF 0.9 to 1.3 grams (1.1 optimum)
Compliance 15×10^{-6} cm/dyne (100 Hz) lateral
Output 2 mV at 50mm/sec at 1 kHz
Response 20 Hz to 30 kHz
Separation 27 dB at 1 kHz
Vertical angle 20 degrees, ± 4 degrees
Load 47K
Features Boron tubular tapered cantilever; triangle tip, super elliptical, semi-line contact stylus

220 CE

Price \$120
Type Induced magnet
Stylus Elliptical; 0.3 x 0.7 mils
VTF 1.70 grams
Compliance 9×10^{-6} cm/dyne (100 Hz) lateral; 9×10^{-6} cm/dyne (100 Hz) vertical
Output 4 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 25 kHz
Separation 25 dB at 1 kHz
Vertical angle 22 degrees
Load 50K; 350 pF
Features Solid carbon-fiber cantilever

360 CE

Price \$135
Type Induced magnet
Stylus Elliptical; 0.3 x 0.7 mils
VTF 1.7 grams
Compliance 9×10^{-6} cm/dyne (100 Hz) lateral; 9×10^{-6} cm/dyne (100 Hz) vertical
Output 4 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 25 kHz, ± 2.5 dB
Separation 25 dB at 1 kHz
Vertical angle 22 degrees
Load 50K; 350 pF
Features Solid carbon-fiber cantilever

344 DE

Price \$70
Type Induced magnet
Stylus Bonded elliptical diamond; 0.3 x 0.7 mils
VTF 1.5 to 2.0 grams (1.8 optimum)
Compliance 8×10^{-6} cm/dyne (100 Hz) lateral

8×10^{-6} cm/dyne (100 Hz) vertical
Output 4 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 25 kHz
Separation 25 dB at 1 kHz
Vertical angle 22 degrees
Load 50K; 350 pF
Features UT-58 aluminum cantilever

200 S

Price \$45
Type Induced magnet
Stylus Spherical; 0.5 mils
VTF 1.75 grams
Compliance 8×10^{-6} cm/dyne (100 Hz) lateral; 8×10^{-6} cm/dyne (100 Hz) vertical
Output 4 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 25 kHz
Separation 25 dB at 1 kHz
Vertical angle 22 degrees
Load 50K; 350 pF
Features UT-58 cantilever

175 IS

Price \$42.50
Type Induced magnet
Stylus Spherical; 0.5 mils
VTF 1.8 grams
Compliance 7.5×10^{-6} cm/dyne (100 Hz) lateral; 7.5×10^{-6} cm/dyne (100 Hz) vertical
Output 4 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 20 kHz
Separation 24 dB at 1 kHz
Vertical angle 22 degrees
Load 50K; 350 pF
Features Integral headshell

Models also available

360 CEX, \$165; 350 E, \$95; 210 E, \$84; 340 S, \$55; 195 IE, \$55; 185 E, \$45; 165 S, \$35

NAKAMICHI Nakamichi USA Corp. 1101 Colorado Ave. Santa Monica, Calif. 90401

MC-1000

Price \$305
Type Moving coil
Stylus Shibata, 0.3 x 0.8 mil
VTF 1.5 to 2.1 grams
Compliance 16×10^{-6} cm/dyne lateral; 16×10^{-6} cm/dyne vertical
Output 0.2 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 65 kHz
Separation 27 dB at 1 kHz
Features Requires head amp such as Nakamichi MB-150 or transformer such as MCB-100; beryllium cantilever; one-point cantilever/coil support; "push/pull" damping system; crystalloy-core coil

MC-500

Price \$135
Type Moving coil
Stylus Elliptical, 0.3 x 0.8 mil
VTF 1.9 to 2.5 grams
Compliance 7×10^{-6} cm/dyne lateral; 7×10^{-6} cm/dyne vertical
Output 0.9 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 35 kHz
Separation 25 dB at 1 kHz
Load 50K
Features High-output moving-coil design; Duralumin cantilever; one-point cantilever/coil support; "push/pull" damping system; crystalloy-core coil

ONKYO
Onkyo U.S.A. Corp.
42-07 20th Ave.
Long Island City, N.Y. 11105

MC-100

Price \$170
Type Moving coil
VTF 1.6 to 2 grams
Compliance 8.5×10^{-6} cm/dyne (100 Hz)
Output 0.4 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 50 kHz
Separation 28 dB at 1 kHz
Load 24 \pm 20 μ
Features Carbon fiber with Duralumin; 3-layer cantilever; hand-made; computer-assisted design

ORTOFON

Tannoy-Ortofon, Inc.
122 Dupont St.
Plainview, N.Y. 11803

MC-30

Price \$600
Type Moving coil
Stylus Fine line
VTF 1.5 grams (recommended)
Compliance 13 μ m/mn lateral; 13 μ m/mn horizontal
Output 0.08 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, \pm 1 dB
Separation 25 dB (1 kHz)
Vertical angle 20 degrees
Load 47K
Features Wide Range Damping (WRD) system

Concorde 30

Price \$165
Type Moving magnet
Stylus Fine line
VTF 1.2 to 1.8 grams
Compliance 25×10^{-6} cm/dyne lateral; 28×10^{-6} cm/dyne vertical
Output 3 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 25 kHz
Separation 25 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 400 pF
Features Cartridge/headshell combination with total weight of 6.5 grams; variable magnetic shunt principle

LM-30

Price \$150
Type Moving magnet
Stylus Fine line
VTF 1.2 to 1.8 grams
Compliance 25×10^{-6} cm/dyne lateral; 28×10^{-6} cm/dyne vertical
Output 3 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 25 kHz
Separation 25 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 400 pF
Features Variable magnetic shunt principle; low-mass design with total weight of 2.6 grams

MC-10

Price \$145
Type Moving coil
Stylus Elliptical; 0.3 x 0.7 mils
VTF 1.7 to 2.3 grams
Compliance 15 lateral; 15 vertical
Output 0.1 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 20 kHz, +3, -1 dB
Separation 22 dB at 1 kHz
Vertical angle 20 degrees
Load 47K

LM-20

Price \$115
Type Moving magnet
Stylus Fine line
VTF 1.5 to 2.1 grams
Compliance 15×10^{-6} cm/dyne lateral; 22×10^{-6} cm/dyne vertical
Output 3.5 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 400 pF
Features Variable magnetic shunt principle; low-mass design with total weight of 2.6 grams

FF-15XE Mk II

Price \$45
Type Moving magnet
Stylus Elliptical; 0.3 x 0.7 mil
VTF 1.5 to 3 grams
Compliance 20×10^{-6} cm/dyne lateral; 20×10^{-6} cm/dyne vertical
Output 5 mV at 5 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, \pm 1 dB
Separation 20 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 400 pF
Features Variable magnetic shunt principle

Models also available

MC-20, \$205; LM-30H, \$150; LM-20H, \$145; Concorde 20, \$125; VMS-20E Mk. II, \$90; FF-15E Mk. II, \$65

OSAWA

Osawa & Co. (USA), Inc.
521 Fifth Ave.
New York, N.Y. 10017

MP-20

Price \$175 (unmounted); \$200 (mounted in Osawa High Performance headshell)
Type Induced magnet
Stylus 0.4 x 0.7 mils triangular nude diamond (geometry)
VTF 0.5 to 2 grams
Compliance 9×10^{-6} cm/dyne dynamic; 21×10^{-6} cm/dyne static
Output 4.5 mV
Response 20 Hz to 23 kHz
Separation 25 dB at 1 kHz
Load 100 pF
Features Boron cantilever

MP-15

Price \$150 (unmounted); \$175 (mounted in Osawa High Performance headshell)
Type Induced magnet
Stylus 0.3 x 0.7 mils elliptical diamond (Geometry)
VTF 0.5 to 2 grams
Compliance 8×10^{-6} cm/dyne dynamic; 20×10^{-6} cm/dyne static
Output 4.5 mV at 1 kHz
Response 20 Hz to 20 kHz
Separation 24 dB at 1 kHz
Load 100 pF
Features Body is a high-rigidity plastic casting reinforced with fiberglass; oversize mounting surface ensures rigid coupling to tonearm headshell

OS-300MP

Price \$110
Type Induced magnet
Stylus 0.3 x 0.7 mils elliptical diamond (geometry)
VTF 1.5 to 2 grams
Compliance 9×10^{-6} cm/dyne dynamic; 20×10^{-6} cm/dyne static

Output 4 mV at 1 kHz
Response 20 Hz to 22 kHz
Separation 25 dB at 1 kHz
Load 47K

Models also available

OS-200MP, \$75; OS-110MP, \$55; OS-100MP, \$45

PICKERING

Pickering & Company, Inc
101 Sunnyside Blvd.
Plainview, N.Y. 11803

XSV/5000

Price \$200
Type Moving magnet
Stylus Stereohedron (geometry)
VTF 0.5 to 1.5 grams
Output 0.7 mV at 1 cm/sec at 1 kHz
Response 10 Hz to 50 kHz
Separation 35 dB at 1 kHz
Load 100K; 100 pF
Features Features low-mass extremely compliant stylus assembly to trace high velocity groove modulations

XSV/4000

Price \$140
Type Moving magnet
Stylus Stereohedron (geometry)
VTF 0.75 to 1.25 grams
Output 0.7 mV at 1 cm/sec at 1 kHz
Response 10 Hz to 36 kHz
Separation 35 dB at 1 kHz
Load 47K; 275 pF
Features Features low-mass samarium-cobalt magnet for greater S/N

XUV-4500Q

Price \$140
Type Moving magnet
Stylus Quadrahedron
VTF 0.5 to 1.5 grams
Response 10 Hz to 50 kHz, \pm 1.5 dB
Separation 35 dB at 1 kHz
Features CD-4 cartridge

XV-15/1200E

Price \$80
Type Moving iron
Stylus Elliptical; 0.2 x 0.7 mil
VTF 0.5 to 1.25 gram
Response 10 Hz to 30 kHz, \pm 1.5 dB
Separation 35 db (1 kHz)

XV-15/625DJ

Price \$60
Type Moving magnet
Stylus 0.4 x 0.7 mils
VTF 1 to 4 grams
Output 4.4 mV at 5.5 cm/sec
Response 20 Hz to 20 kHz
Separation 30 dB
Load 275 pF

Models also available

XSV-3000, \$100; UV-15/2000Q, \$70; XV-15/750E, \$65; XV-15/625E, \$60; XV-15/400E, \$55

PRECEDENT

Precedent Audio Products, Inc.
306 E. Oliver St.
Baltimore, Md. 21202

Z-MOD

Price \$175
Type Moving magnet
Stylus 0.6 x 0.3 mils elliptical (geometry)
VTF 1 to 1.5 grams
Output 3 mV at 3.54 cm/sec at 1 kHz
Response 10 Hz to 60 kHz, ± 0.5 dB
Separation 25 dB (or from 10 Hz to 30 kHz)
Vertical angle 17½ degrees
Load 47K
Features Designed for medium to high mass tonearms

PREMIER

Sumiko, Inc.
P.O. Box 5046
Berkeley, Calif. 94705

LME

Price \$149
Type Moving coil
Stylus 0.3 x 0.8 mils elliptical (geometry)
VTF 1.3 to 2.0 grams
Compliance 18 x 10⁻⁶ cm/dyne lateral; 18 x 10⁻⁶ cm/dyne vertical
Output 0.35 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 36 kHz, ± 2.0 dB
Separation 30 dB at 1 kHz
Features Low-mass factory-replaceable stylus

Models also available

LMS, \$109

SATIN

Osawa & Co. (USA), Inc.
521 Fifth Ave.
New York, N.Y. 10017

M-18BX

Price \$300
Type Moving coil
Stylus Shibata; 0.1 x 2.5 mils
VTF 0.5 to 1.5 gram
Compliance 20 x 10⁻⁶ cm/dyne lateral; 20 x 10⁻⁶ cm/dyne vertical
Output 2.5 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 40 kHz
Separation 30 dB at 1 kHz
Vertical angle 18 degrees
Load 100K
Features Beryllium cantilever; user-replaceable stylus; needs no transformer or head amp; true fixed point stylus cantilever pivot; special formula damping lubricant

M-18X

Price \$275
Type Moving coil
Stylus Shibata; 0.1 x 2.5 mils
VTF 0.5 to 1.5 gram
Compliance 15 x 10⁻⁶ cm/dyne lateral; 15 x 10⁻⁶ cm/dyne vertical
Output 2.5 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 35 kHz
Separation 30 dB at 1 kHz
Vertical angle 18 degrees
Load 100K
Features User-replaceable stylus; needs no transformer or head amp

117Z

Price \$125
Type Moving coil
Stylus 0.2 x 0.8 mils bonded conical (geometry)
VTF 1.5 to 2.5 grams

Output 30 mV
Response 20 Hz to 25 kHz
Load 47K

Models also available

M-18E, \$250; 117S, \$225; M-117G, \$175

SHURE

Shure Bros. Inc.
222 Hartrey Ave.
Evanston, Ill. 60204

V15 Type IV

Price \$150
Type Moving magnet
Stylus Hyperelliptical
VTF 0.75 to 1.25 gram
Output 4 mV at 5 cm/sec peak velocity at 1 kHz
Response 10 Hz to 25 kHz
Separation 25 dB at 1 kHz; 15 dB at 10 kHz
Load 47K; 250 pF
Features Viscous-damped dynamic stabilizer; totally new computer-designed moving system; trackability (cm/sec peak velocity) at 1 gram: 29 at 400 Hz, 42 at 1 kHz, 27 at 10 kHz

SC39ED

Price \$100
Type Moving magnet
Stylus 0.2 x 0.7 mils biradial elliptical (geometry)
VTF 0.75 to 1.5 grams
Output 4.0 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz
Load 47 K; 250 pF
Features Professional cartridge; trackability (cm/sec peak velocity) at 1 gram: 24 at 400 Hz; 35 at 1 kHz; 25 at 10 kHz

V15 Type III-G

Price \$90
Type Moving magnet
Stylus Spherical; 0.6 mils
VTF 0.75 to 1.25 grams
Output 3.5 mV at 5 cm/sec peak velocity at 1 kHz
Response 10 Hz to 25 kHz
Separation 25 dB at 1 kHz; 15 dB at 10 kHz
Load 47K; 450 pF
Features Trackability (cm/sec peak velocity) at 1 gram: 26 at 400 Hz, 38 at 1 kHz, 26 at 10 kHz

M24H

Price \$88.50
Type Moving magnet
Stylus Long-contact hyperbolic
VTF 1 to 1.5 gram
Output 3 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 50 kHz
Separation 22 dB min. at 1 kHz
Load 100K; 100 pF (4-channel discrete); 120 kHz to 100 kHz, 100 pF to 250 pF (stereo and 4-channel matrix)
Features Stereo and 4-channel cartridge
Trackability (cm/sec peak velocity) at 1.25 grams: 20 at 400 Hz, 28 at 1 kHz, 50 at 10 kHz, 25 at 30 kHz

SC39EJ

Price \$70
Type Moving magnet
Stylus 0.4 x 0.7 mils biradial elliptical (geometry)
VTF 1.5 to 3 grams
Output 4.0 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 20 dB at 1 kHz

Load 47K; 250 pF
Features Professional cartridge; trackability (cm/sec peak velocity) at 2 grams; 30 at 400 Hz; 40 at 1 kHz; 35 at 10 kHz

M75ED Type 2

Price \$66.95
Type Moving magnet
Stylus Biradial elliptical; 0.2 x 0.7 mils
VTF 0.75 to 1.5 gram
Output 5 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz
Load 47K; 450 pF
Features Trackability (cm/sec peak velocity) at 1 gram: 22 at 400 Hz, 33 at 1 kHz, 19 at 10 kHz

M91E

Price \$61.50
Type Moving magnet
Stylus Biradial elliptical; 0.2 x 0.7 mils
VTF 0.75 to 1.5 gram
Output 5 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz
Load 47K; 450 pF
Features Trackability (cm/sec peak velocity) at 1 gram: 20 at 400 Hz, 28 at 1 kHz, 18 at 10 kHz

M91GD

Price \$56.50
Type Moving magnet
Stylus Spherical; 0.6 mils
VTF 0.75 to 1.5 gram
Output 5 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz
Load 47K; 450 pF
Features Trackability (cm/sec peak velocity) at 1 gram: 22 at 400 Hz, 33 at 1 kHz, 19 at 10 kHz

M93E

Price \$51.50
Type Moving magnet
Stylus Biradial elliptical; 0.4 x 0.7 mils
VTF 1.5 to 3 grams
Output 6.2 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 20 dB at 1 kHz
Load 47K; 450 pF
Features Trackability (cm/sec peak velocity) at 2 grams: 18 at 400 Hz, 25 at 1 kHz, 13 at 10 kHz

M70EJ

Price \$44.95
Type Moving magnet
Stylus Biradial elliptical; 0.4 x 0.7 mils
VTF 1.5 to 3 grams
Output 6.2 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 20 dB at 1 kHz
Load 47K; 450 pF
Features Trackability (cm/sec peak velocity) at 2 grams: 19 at 400 Hz, 26 at 1 kHz, 12 at 10 kHz

M75ECS

Price \$40.95
Type Moving magnet
Stylus Biradial elliptical; 0.4 x 0.7 mils
VTF 2 to 4 grams
Output 9.3 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 20 dB at 1 kHz
Load 47K; 450 pF

Features Trackability (cm/sec peak velocity) at 3 grams: 26 at 400 Hz, 37 at 1 kHz, 12 at 10 kHz

M55E

Price \$41.95
Type Moving magnet
Stylus Biradial elliptical; 0.2 x 0.7 mils
VTF 0.75 to 2 grams
Output 6.2 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 22 dB at 1 kHz
Load 47K; 450 pF

M44E

Price \$36.50
Type Moving magnet
Stylus Biradial elliptical; 0.4 x 0.7 mils
VTF 1.75 to 4 grams
Output 9.5 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 20 dB at 1 kHz
Load 47K; 450 pF

M44-7

Price \$31.95
Type Moving magnet
Stylus Spherical; 0.7 mils
VTF 1.5 to 3 grams
Output 9.5 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 20 dB at 1 kHz
Load 47K; 450 pF

M44C

Price \$29.95
Type Moving magnet
Stylus Spherical; 0.7 mils
VTF 3 to 5 grams
Output 9.5 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 20 dB at 1 kHz
Load 47K; 450 pF

M3D

Price \$23.95
Type Moving magnet
Stylus Spherical; 0.7 mils
VTF 3 to 6 grams
Output 7.5 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 15 kHz
Separation 20 dB at 1 kHz
Load 47K; 450 pF

Models also available

V15 Type IV-G, \$144; V15 Type III, \$95; M95HE, \$89.50; M95ED, \$77.50; M91ED, \$66.95; M95EJ, \$61.95; SC39B, \$60; M75EJ Type 2, \$56.50; M75G Type 2, \$49.95; M75B Type 2, \$44.95; M70B, \$39.95; M75-6S, \$38.50; M44G, \$31.95; M75CS, \$30.50; SC35C, \$27.75

SIGNET

Signet Co.
33 Shiawassee Ave.,
Fairlawn, Ohio 44313

MK-111E

Price \$300
Type Moving coil
Stylus 0.2 x 0.7 mils elliptical (geometry)
VTF 1 to 2 grams
Output 0.4 mV at 5 cm/sec at 1 kHz
Response 5 Hz to 50 kHz
Separation 30 dB at 1 kHz (or from 20 Hz to 10 kHz)

Vertical angle 20 degrees

Load 47K; 100pF

Features Low-mass; beryllium cantilever; accessory MK-10T (\$95) or MK-12T (\$300) matching transformer available for use with magnetic phono inputs; as MK-112E (\$325) includes integrated headshell with adjustable overhang from 1/9 to 2 1/5 inches

TK-9E

Price \$275
Type Moving magnet
Stylus 0.2 x 0.7 mils elliptical (geometry)
VTF 0.75 to 1.5 grams
Output 2.2 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 25 kHz
Separation 35 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 270 pF

TK-7E

Price \$160
Type Moving magnet
Stylus 0.2 x 0.7 mils elliptical (geometry)
VTF 0.75 to 1.75 grams
Output 2.5 mV at 5 cm/sec
Response 5 Hz to 30 kHz, ± 1 dB
Separation 30 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 270 pF
Features Patented dual-magnet micro-mass moving system; miniaturized diamond; micro-mass tapered tube cantilever; 14 accessory styli permit experimentation with combination of boron, beryllium, titanium, carbon-fiber and aluminum cantilevers

Models also available

TK-7SU, \$185; TK-5E, \$90; TK-3E, \$55; TK-1E, \$40

SONUS

Sonic Research, Inc.
27 Sugar Hollow Road
Danbury, Conn. 06810

Dimension 5

Price \$250
Type Moving Iron
VTF 0.75 to 1.25 grams
Compliance 50 x 10⁻⁶ cm/dyne lateral; 50 x 10⁻⁶ cm/dyne vertical
Output 0.8 mV at 1 kHz
Vertical angle 20 degrees (nominal)
Load 47K
Features "Lambda" stylus tip

Blue Cartridge Series II Gold

Price \$154
Type Moving iron
Stylus Line contact
VTF 0.75 to 1.25 grams
Compliance 50 x 10⁻⁶ lateral; 50 x 10⁻⁶ vertical
Output 4 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 16 kHz, ± 1 dB; 16 kHz to 20 kHz, +2, -1 dB; 20 kHz to 40 kHz, ± 5 dB
Separation 30 dB at 1 kHz (20 dB over range of 20 Hz to 20 kHz)

Vertical angle 20 degrees

Load 47K; 400pF (max)

Features Special calibration available upon request; CD-4 capabilities

Red Cartridge Series II Gold

Price \$137.50
Type Moving iron
Stylus Elliptical
VTF 0.75 to 1.25 grams
Compliance 50 x 10⁻⁶ lateral 50 x 10⁻⁶ vertical
Output 4 mV at 5 cm/sec at 1 kHz
Response 5 Hz to 20 kHz, +2, -1 dB

Separation 30 dB at 1 kHz (20 dB over range 20 Hz to 20 kHz)

Vertical angle 20 degrees

Load 47K; 400pF (max)

Features Special calibration available upon request

Green Cartridge Series II Gold

Price \$121
Type Moving iron
Stylus Spherical
VTF 0.75 to 1.25 grams
Compliance 50 x 10⁻⁶ lateral; 50 x 10⁻⁶ vertical
Output 4 mV at 5 cm/sec at 1 kHz
Response 5 Hz to 20 kHz, +2 -1 dB
Separation 30 dB at 1 kHz (20 dB over range of 20 Hz to 20 kHz)
Vertical angle 20 degrees
Load 47K; 400pF (max)
Features Special calibration available upon request

Models also available

"P" Cartridge Series II Silver, \$88;
"E" Cartridge Series II Silver, \$77;
Black A, \$77; Black C, \$66

SONY

Sony Industries
9 W. 57th St.
New York, N.Y. 10019

XL-55 Pro

Price \$300
Type Moving coil
Stylus 0.3 x 0.8 mils elliptical (geometry)
VTF 1.5 to 2.5 grams
Output 0.2 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 50 kHz
Separation 30 dB (1 kHz)
Vertical angle 45 degrees

STANTON

Stanton Magnetics, Inc.
Terminal Drive
Plainview, N.Y. 11803

881S

Price \$150
Type Moving magnet
Stylus Stereohedron, 2 (0.3 x 2.8) mils
VTF 0.75 to 1.25 gram
Output 0.9 mV at 1 cm/sec at 1 kHz
Response 10 Hz to 20 kHz, 1.5 dB (individually calibrated)
Separation 35 dB at 1 kHz
Load 47K; 275 pF

681EEE (S Type)

Price \$115
Type Moving magnet
Stylus Stereohedron (geometry)
VTF 0.75 to 1.25 grams
Output 0.7 mV
Response 10 Hz to 12 kHz, ± 0.5 dB
Separation 35 dB
Load 275 pF

681EEE

Price \$90
Type Moving iron
Stylus Elliptical; 0.2 x 0.7 mil
VTF 0.75 to 1.25 gram
Output 0.7 mV at 1 cm/sec at 1 kHz
Response 10 Hz to 22 kHz (individually calibrated)
Separation 35 dB at 1 kHz
Load 47K; 275 pF

681EE

Price \$78
Type Moving iron
Stylus Elliptical; 0.2 x 0.7 mil

VTF 0.75 to 1.5 gram
Output 0.82 mV at 1 cm/sec at 1 kHz
Response 10 Hz to 20 kHz (individually calibrated)

Separation 35 dB at 1 kHz
Load 47K; 275 pF

681SE

Price \$72
Type Moving Iron
Stylus Elliptical; 0.4 x 0.7 mil
VTF 2 to 4 grams
Output 1.1 mV at 1 cm/sec at 1 kHz
Response 20 Hz to 20 kHz (individually calibrated)

Separation 35 dB at 1 kHz
Load 47K; 275 pF

600E

Price \$50
Type Moving iron
Stylus Elliptical; 0.4 x 0.7 mil
VTF 1.5 to 3 grams
Output 1 mV at 1 cm/sec at 1 kHz
Response 20 Hz to 20 kHz
Separation 35 dB at 1 kHz
Load 47K; 275 pF

500EE

Price \$40
Type Moving magnet
Stylus Elliptical; 0.3 x 0.7 mil
VTF 1 to 2 grams
Output 1 mV at 1 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 3 dB
Separation 35 dB at 1 kHz
Load 47K; 275 pF

500E

Price \$35
Type Moving magnet
Stylus Elliptical; 0.4 x 0.7 mil
VTF 2 to 5 grams
Output 1 mV at 1 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 2 dB
Separation 35 dB at 1 kHz
Load 47K; 275 pF

500A

Price \$30
Type Moving magnet
Stylus Spherical; 0.07 mil
VTF 2 to 5 grams
Output 1 mV at 1 cm/sec at 1 kHz
Response 20 Hz to 20 kHz, ± 2 dB
Separation 35 dB at 1 kHz
Load 47K; 275 pF

500AL

Price \$30
Type Moving magnet
Stylus Spherical; 0.07 mil
VTF 3 to 7 grams
Output 1 mV at 1 cm/sec at 1 kHz
Response 20 Hz to 17 kHz, ± 2.5 dB
Separation 28 dB at 1 kHz
Load 47K; 275 pF

Models also available

780/4DQ, \$125; 680-SL, \$87.50;
 681A, \$72; 780/Q, \$70; 600A, \$45;
 500AA, \$35

STAX

American Audioport
 1407 N. Providence Road
 Columbia, Mo. 65201

CP-Y/ECP-1

Price \$480

Type Electret
Stylus Modified elliptical; 0.8mm x 0.3mm
VTF 0.9 to 1.6 gram
Compliance 10×10^{-8} cm/dyne
Output 240 mV at 3.54 cm/sec at 1 kHz
Response 10 Hz to 30 kHz, +0, -3 dB
Separation 20 dB at 1 kHz
Load 20K or more; 300 pF or less
Features Integral demodulator box drives line-level inputs; RIAA built in

SUPEX

Sumiko, Inc.
Box 5046
Berkeley, Calif. 94705

SDX-1000

Price \$500
Type Moving coil
Stylus 0.3 x 0.7 mils Line Contact (geometry)

VTF 1.5 to 2.0 grams
Compliance 9.0×10^{-8} lateral; 9.0×10^{-8} vertical
Output 0.2 mV at 3.54 cm/sec at 1 kHz
Response 20 Hz to 45 kHz, ± 2 dB
Separation 27 dB at 1 kHz
Vertical angle 20 degrees
Features Nude diamond 50% mass of normal square cut; silver-clad copper coil wires counteract high frequency skin effect

SD-900 MkII

Price \$350
Type Moving coil
Stylus 0.3 x 0.8 mils elliptical (geometry)
VTF 1.3 to 2.0 grams
Compliance 9.0×10^{-8} cm/dyne lateral; 9.0×10^{-8} cm/dyne vertical
Output 0.125 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 50 kHz, ± 2 dB
Separation 27 dB at 1 kHz
Vertical angle 20 degrees

SD-900/E+ Super (Improved)

Price \$225
Type Moving coil
Stylus Elliptical; 0.3 x 0.8 mil
VTF 1.2 to 1.7 gram
Compliance 20×10^{-8} cm/dyne lateral; 20×10^{-8} cm/dyne vertical
Output 0.2 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 50 kHz, ± 3 dB
Separation 30 dB at 1 kHz
Vertical angle 20 degrees
Features Requires step-up transformer

SM-100/Mk III

Price \$90
Type Moving magnet
Stylus Elliptical; 0.3 x 0.8 mil
VTF 1 to 2 grams
Compliance 20×10^{-8} cm/dyne lateral; 18×10^{-8} cm/dyne vertical
Output 4.5 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 30 kHz, ± 2 dB
Separation 27 dB at 1 kHz
Vertical angle 20 degrees
Load 47K; 300 pF

Models also available

SD-901/E+ Super, \$175; SM-100/Mk II, \$70

A Note on Prices

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Turntables

ADC
BSR (USA) Ltd.
Route 303
Blauvelt, N.Y. 10913

Accutrac 3500RVC*

Price \$400
Dimensions 6 $\frac{3}{4}$ "H x 17 $\frac{3}{4}$ "W x 16D
Weight 16 lbs. 8 oz.
Type Changer
Speed adj. $\pm 3\%$
Motor type 24-pole, 300-rpm synchronous AC
Drive type Belt
Rumble -66 dB (DIN B)
Wow/Flutter 0.4% (WRMS)
VTF 0 to 4 grams
Antiskating 0 to 4 grams
Resonance 10 to 12 Hz (with ADC LMA-3 cartridge)
Headshell Fixed
Features Computerized memory bank for electronic track selection (6 records); wireless remote control including volume; Accuglide transport system

1700DD

Price \$279.95
Dimensions 6 $\frac{3}{4}$ "H x 18 $\frac{1}{2}$ "W x 14 $\frac{1}{4}$ "D
Weight 22 lbs.
Type Semiautomatic
Speed adj. $\pm 2.5\%$
Motor type DC quartz-locked
Drive type Direct
Rumble 70 dB (DIN B)
Wow/Flutter 0.03% (WRMS)
VTF 0 to 3.5 grams
Antiskating 0 to 3.5 grams
Resonance 11 Hz (with ADC XLM/Mk 3 cartridge)
Features Low-mass tonearm; resonance-canceling base; LED digital speed display; micro-switch electronic controls

3001

Price \$249.95 (tonearm not included)
Dimensions 3H x 18 $\frac{3}{4}$ "W x 14 $\frac{1}{4}$ "D
Weight 22 lbs.
Type Manual
Speeds 33 1/3; 45
Speed adj. $\pm 5\%$ (with strobe)
Motor type Electronically-controlled DC brushless motor
Drive type Direct
Rumble -70 dB (weighted per DIN B standard)
Wow/Flutter 0.03% (weighted per DIN standard)
Features 3 lb. 2 oz. dynamically balanced die-cast aluminum platter; universal tonearm mounting capability

Models also available

1600DD, \$229.95; 1510FG, \$189.95

AIWA
Aiwa America
350 Oxford Drive
Moonachie, N.J. 07074

LP-3000

Price \$1,200
Dimensions 5 15/16H x 18 15/16W x 17 5/16D
Weight 33 lbs. 8 oz.
Type Fully automatic
Speeds 33 1/3; 45
Speed adj. ±6%
Motor type Pulse synthesizer quartz PLL servo
Drive type Direct
Rumble -75 dB (weighted per DIN B standard)

Wow/Flutter 0.025% (WRMS) (weighted per JIS standard)

Cueing Yes
VTF 0 to 3 grams
Track. error Zero degrees
Headshell Removable
Features Straight-line tracking; linear trace arm; automatic programming; auto repeat forward and back skipping; cue and review; pause; optional remote control; quartz-locked speed control

AP-2600

Price \$400
Dimensions 6H x 18 15/16W x 15 15/16D
Weight 27 lbs. 9 oz.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±6.5%
Motor type 3 phase, 8 pole, 24 slot DC quartz-locked

Drive type Direct
Rumble -75 dB (weighted per DIN B standard)

Wow/Flutter 0.025% (weighted per JIS standard)

Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error +2.1, -1.6 degrees
Headshell Removable
Features Digital speed readout; viscous damped cueing; built-in muting circuit; end-up stop feature

Models also available

AP-2200, \$190

AKAI

Akai America, Ltd.
2139 E. Del Amo Blvd.
P.O. Box 6010
Compton, Calif. 90224

AP-307

Price \$280
Dimensions 6 3/10H x 17 3/5W x 14D
Weight 19 lbs.
Type Fully automatic
Speeds 33 1/3; 45
Motor type Quartz lock
Drive type Direct
Rumble -70 dB (weighted per DIN B standard)

Wow/Flutter 0.035% (weighted per DIN standard)

AP-100

Price \$120
Dimensions 5 4/5H x 17 3/5W x 14 1/5D
Weight 13 lbs. 6 oz.
Type Semiautomatic
Speeds 33 1/3; 45

Motor type 4-pole synchronous
Drive type Belt
Rumble -64 dB (weighted per DIN B standard)
Wow/Flutter 0.05% (weighted per DIN standard)

AP-B10C

Price \$100
Dimensions 5 3/10H x 17 3/10W x 14D
Weight 13 lbs.
Type Manual
Speeds 33 1/3; 45
Motor type 4-pole synchronous
Drive type Belt
Rumble -65 dB (weighted per DIN B standard)

Wow/Flutter 0.05% (weighted per DIN standard)

Eff. arm mass 14.9 grams
Cueing Yes
Resonance 10 Hz (with attached cartridge)
Track. error +3, -1 degrees
Headshell Removable

Models also available

AP-306, \$240; AP-207, \$200; AP-206, \$160

BANG & OLUFSEN

Bang & Olufsen of America, Inc.
515 Busse Road
Elk Grove Village, Ill. 60007

Beogram 4004

Price \$850
Dimensions 4H x 19W x 14¾D
Weight 24 lbs. 3 oz.
Type Fully automatic
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type Tach DC for platter; separate DC servo for tonearm

Drive type Belt
Rumble -65 dB (DIN B)
Wow/Flutter 0.025% (WRMS)
Cueing Yes
VTF 0 to 2 grams
Antiskating Not applicable; tangential tracking
Resonance 13 Hz (with MMC-20EN cartridge)
Track. error 0.04 degrees
Headshell None
Features Price includes MMC-20EN cartridge, base, and dust cover; opto-electronically controlled tangentially-tracking tonearm; pendulum/leaf-spring suspension

Beogram 3400

Price \$425
Dimensions 3½H x 17¼W x 14½D
Weight 14 lbs. 5 oz.
Type fully automatic
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type Servo-controlled DC
Drive type Belt
Rumble -65 dB (weighted per DIN B standard)

Wow/Flutter 0.03% (weighted per WRMS standard)

Cueing Yes
VTF 0 to 2 grams
Antiskating 0 to 2 grams
Resonance 12 Hz (with MMC-20EN cartridge)
Track. error 0.126 degree/cm
Features Price includes MMC-20EN cartridge, base, and dust cover; pendulum/leaf spring suspension; controls outside dust cover, record detector

Models also available

Beogram 2402, \$325

B.I.C.

B.I.C./Avnet
South Service Road
Westbury, N.Y. 11590

80 Z

Price \$239.95
Dimensions 6¾H x 18¾W x 15¼D
Weight 21 lbs.
Type Changer
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type 24-pole synchronous AC servo
Drive type Belt
Rumble -70 dB (weighted per DIN B standard)

Wow/Flutter 0.05% (weighted per WRMS standard)

Eff. arm mass 12 grams
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 12 Hz (with Shure M-91ED cartridge)

Track. error 0.27 degree
Headshell Removable
Features Digital drive system with readout; integrated removable headshell/tonearm; jeweled tonearm bearings

Sp-85

Price \$239.95
Dimensions 5¾H x 18¾W x 14¾D
Weight 21 lbs.
Type Automatic repeat
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type 24-pole synchronous AC servo
Drive type Belt
Rumble -70 dB (weighted per DIN B standard)

Wow/Flutter 0.05% (weighted per WRMS standard)

Eff. arm mass 12 grams
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 12 Hz (with Shure M-91ED cartridge)

Track. error 0.27 degree
Headshell Removable
Features Same as Model 80 Z

60 Z

Price \$179.95
Dimensions 6¾H x 18¾W x 15¼D
Weight 18 lbs.
Type Changer
Speeds 33 1/3; 45
Speed adj. ±3% (strobe)
Motor type 24-pole 300-RPM synchronous
Drive type Belt
Rumble -68 dB (weighted per DIN B standard)

Wow/Flutter 0.06% (weighted per WRMS standard)

Eff. arm mass 12 grams
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 12 Hz (with Shure M-91Ed cartridge)

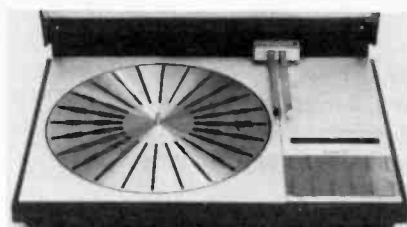
Track. error 0.27 degree
Headshell Fixed
Features Programmer system; dynamically-balanced arm



Akal AP-B10C



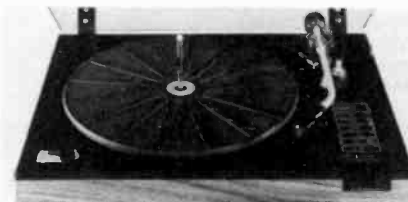
B.I.C. SP-85



B & O Beogram 4004



Denon DP-40F



BSR XR-50



Dual 731Q

Models also available

Sp-65, \$179.95; 40Z, \$149.95; 20Z, \$99.95

BSR

BSR (USA), Ltd.

Route 303

Blauvelt, N.Y. 10913

XR-50

Price \$200
Dimensions 17 13/16H x 14 1/2W x 6 3/4D
Weight 14 lbs.
Type Changer
Speeds 33 1/3; 45
Motor type AC synchronous
Drive type Belt
Rumble -66 dB
Wow/Flutter 0.04%
Cueing Yes
VTF 2 to 4 grams
Antiskating 0 to 4 grams
Resonance 10 to 12 Hz (with ADC OLM-32 cartridge supplied)
Headshell Fixed
Features Infrared total remote including volume control select records in desired order; Accuglide® record transport system

QUANTA SERIES

450-Sx

Price \$100
Dimensions 6 5/8H x 17 1/4W x 14 1/2D
Weight 15 lbs.
Type Changer
Speeds 33 1/3; 45
Motor type 24-pole, 300-rpm synchronous AC
Drive type Belt
Rumble -62 dB dB (DIN B)
Wow/Flutter 0.08% (WRMS)
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 6 grams
Headshell Fixed
Features Autoglides umbrella spindle; sold completely assembled with base, dust cover and ADC QLM-32 cartridge

Models also available

400, \$100

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CALIBRE

CBS Retail Stores

1301 65th St.

Emeryville, Calif. 94608

360

Price \$195
Dimensions 7H x 17 1/4W x 13 1/2D
Speeds 33 1/3; 45
Speed adj. ±5% (strobe)
Motor type DC servo
Drive type Direct
Rumble -70 dB (weighted per DIN B standard)
Wow/Flutter 0.035% (weighted per DIN standard)
VTF 0 to 3 grams
Track. error 0.2 degrees
Features Adjustable antiskate; auto shutoff

Models also available

330, \$145

CONCEPT

Concept Co.

1601 West Glenlake

Itasca, Ill. 60943

2QD

Price \$295
Dimensions 5 7/8H x 17 3/4W x 14 1/2D
Speeds 33 1/3; 45
Speed adj. ±6% (LED strobe)
Motor type DC servo
Drive type Direct
Rumble -70 dB (weighted per DIN B standard)
Wow/Flutter 0.025% (weighted per DIN standard)
Cueing Yes
VTF 0 to 3 grams
Antiskating Adjustable
Track. error 0.5 degrees

CONNOISSEUR

Hervic Electronics, Inc.

14225 Ventura Blvd.

Sherman Oaks, Calif. 91423

BD-103/SAU4

Price \$380
Dimensions 6 1/2H x 18W x 15D

Weight 25 lbs.
Type Semiautomatic
Speeds 33 1/3; 45; 78
Speed adj. ±5%
Motor type Low voltage (with strobe) DC servo with servo amplifier (6 transistors and 1 zener diode)
Drive type Belt
Rumble -74 dB (weighted per DIN standard)
Wow/Flutter 0.055% (weighted per DIN standard)
Eff. arm mass 4 to 6 grams (adjustable)
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 4 grams
Headshell Removable
Features External power supply; all-electric cueing; cue-defeat switch; comes with SAU-4 tonearm

BD-103

Price \$260 (tonearm not included)
Dimensions 6 1/2H x 18W x 15D
Weight 22 lbs.
Type Manual
Speeds 33 1/3; 45; 78
Speed adj. ±5%
Motor type Low voltage DC servo (with strobe) with servo amplifier (6 transistors and low voltage DC servo 1 zener diode)
Drive type Belt
Rumble -74 dB (weighted per DIN standard)
Wow/Flutter 0.055% (weighted per DIN standard)
Features Blank mounting board for tonearm; external power supply

BD-2A

Price \$200 (walnut veneer, \$220)
Dimensions 5 1/2H x 18W x 15D
Weight 22 lbs.
Type Semiautomatic
Speeds 33 1/3; 45
Motor type 16-pole AC synchronous
Drive type Belt
Rumble -65 dB (weighted per DIN standard)
Wow/Flutter 0.065% (weighted per DIN standard)
Eff. arm mass 4 to 6 grams (adjustable)
Cueing Yes
VTF 25 to 6 grams
Antiskating .75 to 3 grams
Headshell Removable
Features Also available as BD-2A compact with smaller dust cover, \$190

BD-1 TRANSPORT

Price \$77
Dimensions 2 3/4H x 9W x 12 5/16D

Weight 7 lbs.
Type Record Transport for console mounting
Speeds 33 1/3; 45
Motor type 16-pole AC synchronous
Drive type Belt
Rumble -65 dB (weighted per DIN standard)
Wow/Flutter 0.065% (weighted per DIN standard)
Features Also available in kit form, \$68

Models also available

DB-102/SAU4, \$310; BD-102/SAU2, \$235; BD-101, \$160 (tonearm not included); BD-1, \$135 (tonearm not included)

DENON

American Audioport
1407 N. Providence Road
Columbia, Mo. 65201

DP-6700

Price \$1,060
Dimensions 7 1/2H x 20 1/2W x 16 1/2D
Weight 37 lbs. 8 oz.
Type Manual
Speeds 33 1/3; 45
Speed adj. ±6%
Motor type Solid rotor type AC servo
Drive type Direct
Rumble 77 dB (DIN B)
Wow/Flutter 0.015% (WRMS)
Eff. arm mass 11 grams
Cueing Yes
VTF 0 to 2.5 grams
Antiskating 0 to 3 grams
Resonance 8 Hz (with Denon DL-103D cartridge)
Track. error 2.5 degrees
Headshell Removable
Features Phase-locked to quartz crystal oscillation; low-feedback imitation leather base; strobe; available without tonearm as DP-6500 at \$855

DP-40F

Price \$500
Dimensions 6H x 19 1/2W x 17 1/4D
Weight 26 lbs.
Type Automatic repeat
Speeds 33 1/3; 45
Motor type AC servo; quartz lock
Drive type Belt
Rumble -75 dB (weighted per DIN B standard)
Wow/Flutter 0.015% (weighted per Denon standard, magnetic pulse wheel)
Cueing Yes
VTF 0 to 3 grams (0.1 gram direct reading)
Antiskating 0 to 3 grams
Headshell Removable
Features Controls outside dustcover; servo-control of tonearm movement; electrical antiskate; effective length of tonearm, 9 3/5"

Models also available

DP-1200, \$375; DP-30PL, \$290

DUAL

United Audio Products
120 S. Columbus Ave.
Mt. Vernon, N.Y. 10553

7310

Price \$559.95

Dimensions 16 1/2H x 14 1/2W x 5 1/5D
Weight 25 lbs.
Type Fully automatic
Speeds 33 1/3; 45
Speed adj. ±11%
Motor type Quartz PLL
Drive type Direct
Rumble -78 dB (weighted per DIN B standard)
Wow/Flutter 0.015% (weighted per WRMS standard)
Eff. arm mass 5.5 grams
Cueing Yes
VTF 0.25 to 2 grams
Antiskating 0 to 2 grams
Resonance 7.8 Hz (with ULM Ortofon ULM-60E cartridge)
Track. error 0.16 degrees/cm
Headshell Removable
Features Low-mass tonearm (8 grams with ULM-60E); tunable antiresonator counterweight; solenoid operating controls

650RC

Price \$399.95
Dimensions 16 1/2H x 14 1/2W x 5 1/5D
Weight 20 lbs.
Type Fully automatic
Speeds 33 1/3; 45
Speed adj. ±10% (strobe)
Motor type CMOS DC electronic
Drive type Direct
Rumble -75 dB (weighted per DIN B standard)
Wow/Flutter 0.03% (weighted per WRMS standard)
Eff. arm mass 5.5 grams
Cueing Yes
VTF 0.25 to 3 grams
Antiskating 0 to 3 grams
Resonance 7.8 Hz (with ULM Ortofon ULM-55E cartridge)
Track. error 0.16 degrees
Headshell Removable
Features Low-mass tonearm (8 grams with ULM-55E); tunable antiresonator counterweight; optional remote control

606

Price \$279.95
Dimensions 16 1/2H x 14 1/2W x 5 1/5D
Weight 18 lbs.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±10% (strobe)
Motor type CMOS DC electronic
Drive type Direct
Rumble -75 dB (weighted per DIN B standard)
Wow/Flutter 0.03% (weighted per WRMS standard)
Eff. arm mass 5.5 grams
Cueing Yes
VTF 0.25 to 3 grams
Antiskating 0 to 3 grams
Resonance 7.8 Hz (with ULM Ortofon ULM-55E cartridge)
Track. error 0.16 degrees/cm
Headshell Removable
Features Low-mass tonearm (8 grams with ULM-55E); tunable antiresonator counterweight

522

Price \$225
Dimensions 16 1/2H x 14 1/2W x 5 1/5D
Weight 17 lbs.
Type Fully automatic
Speeds 33 1/3; 45
Speed adj. ±6% (strobe)
Motor type High-torque synchronous
Drive type Belt
Rumble -70 dB (weighted per DIN B standard)
Wow/Flutter 0.04% (weighted per WRMS standard)

Eff. arm mass 5.5 grams
Cueing Yes
VTF 0.25 to 3 grams
Antiskating 0 to 3 grams
Resonance 7.8 Hz (with ULM Ortofon ULM-55E cartridge)
Track. error 0.16 degrees
Headshell Removable
Features Same as Model 506

Models also available

7140, \$479.95; 622, \$319.95; 1264, \$275; 506, \$189.95; 1257, \$179.95

EMPIRE

Empire Scientific Corp.
1055 Stewart Ave.
Garden City, N.Y. 11530

698

Price \$400
Dimensions 8 1/4H x 17 1/2W x 15 1/4D
Weight 30 lbs.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±2.25%
Motor type Hysteresis synchronous
Drive type Belt
Rumble -68 dB (below 3.54 cm/sec at 1 kHz)
Wow/Flutter 0.04%
Eff. arm mass 12.5 grams
Cueing Yes
VTF 0 to 2.5 grams
Antiskating 0 to 2.5 grams
Resonance 10 Hz (with Empire 2000 Z cartridge)
Track. error Under 0.5 degree per inch
Headshell Removable
Features Electronic cueing; antiskating uses diminishing-spring principle; calibration chart supplied for various stylus shapes; 7-lb. dynamically balanced platter; tonearm bearings have 32 sapphire jewels; adjustable tonearm height

FISHER

Fisher Corp.
21314 Lassen St.
Chatsworth, Calif. 91311

MT-6250

Price \$300 (\$325 with cartridge)
Dimensions 6 1/2H x 17 3/4W x 14 1/4D
Weight 18 lbs. 11 oz.
Type Semiautomatic
Speed adj. ±6%
Motor type 120-pole linear quartz phase-locked loop
Drive type Direct
Rumble 70 dB (DIN B)
Wow/Flutter 0.03% (WRMS)
Eff. arm mass 14.9 grams
VTF 0.6 to 3.5 grams
Antiskating 0 to 3.5 grams
Resonance 10 Hz
Track. error ±1.5 degrees
Features Extended 5-year drive-system warranty available; quartz-locked speed control

MT-6225A

Price \$249.95 (\$269.95 with cartridge)
Dimensions 6H x 17 3/4W x 14 1/4D
Weight 17 lbs. 11 oz.
Type Semiautomatic
Speed adj. ±3%
Motor type 120-pole linear
Drive type Direct

Rumble -70 dB (DIN B)
Wow/Flutter 0.03% (WRMS; JIS)
Eff. arm mass 14.9 grams
VTF 0.6 to 3.5 grams
Antiskating 0 to 4 grams
Resonance 10 Hz
Track. error 1.5 degrees
Features Strobe; electronic speed selection

MT-6211

Price \$150 (with cartridge)
Dimensions 5½H x 17¾W x 14¼D
Weight 13 lbs. 4 oz.
Type Semiautomatic
Speed adj. ±3%
Motor type DC servo
Drive type Belt
Rumble -60 dB (DIN B)
Wow/Flutter 0.06% (WRMS; JIS)
VTF 0.6 to 3.5 grams
Antiskating 0 to 4 grams
Resonance 10 Hz (with Audio-Technica AT-10 cartridge)
Track. error 1.5 degree

MT-6310

Price \$119.95 (\$149.95 with cartridge)
Dimensions 6H x 17 1/3W x 14½D
Weight 15 lbs.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±3% (strobe)
Motor type DC servo
Drive type Belt
Rumble -68 dB (weighted per DIN B standard)
Wow/Flutter 0.04% (weighted per WRMS standard)
Cueing Yes
VTF 0.6 to 3.5 grams
Antiskating 0.6 to 3.5 grams
Resonance 10 Hz (with Audio-Technica M6-35V cartridge)
Track. error ±2.0 degrees
Headshell Removable
Features Front panel controls

Models also available

MT-6335, \$249.95 (\$279.95 with cartridge); MT-6224, \$200 (\$220 with cartridge); MT-6330, \$189.95 (\$219.95 with cartridge); MT-6320, \$169.95 (\$199.95 with cartridge); MT-6115, \$120 (with cartridge); MT-611A, \$109.95

FONS

Fons International Electronics, Ltd.

**11046 Santa Monica Blvd.
 Los Angeles, Calif. 90025**

International Mk I

Price \$315
Dimensions 6¼H x 14W x 17¾D
Weight 19 lbs.
Type Manual
Speeds 33 1/3; 45; 78
Speed adj. 29 to 105 rpm, continuously adjustable
Motor type DC servo-controlled
Drive type Belt
Rumble -75 dB (DIN)
Wow/Flutter 0.03% (DIN)
Features Tachometer-generator electronic speed control; hyper-concentric main bearing; high-mass, single-piece die-cast platter

GARRARD

Garrard/Plessey Consumer Products
**100 Commercial St.
 Plainview, N.Y. 11803**

GT-350

Price \$229.95
Dimensions 7¾H x 17¾W x 14½D
Weight 15 lbs.
Type Changer
Speeds 33 1/3; 45
Speed adj. ±3% (with strobe)
Motor type DC servo
Drive type Belt
Rumble -68 dB (weighted per DIN B standard)

Wow/Flutter 0.06% (weighted per DIN B standard)

Eff. arm mass 12 grams (including headshell)
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 3 grams
Resonance 9 Hz (with Shure M95ED cartridge)
Track. error 0.05 degrees
Headshell Removable
Features Front access controls; carbon-fiber headshell; low-mass tonearm; Delglide® modular changing mechanism

DD-132

Price \$219.95
Dimensions 5¾H x 17¾W x 13¾D
Weight 16 lbs.
Type Fully automatic
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type DC servo
Drive type Direct
Rumble -70 dB (weighted per DIN B standard)

Wow/Flutter 0.06% (weighted per DIN B standard)

Eff. arm mass 12 grams (including headshell)
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 3 grams
Resonance 9 Hz (with Shure M95ED cartridge)
Track. error 0.05 degrees
Headshell Removable
Features "Fail-Safe" drive system using Garrard's cogless motor; time-integral-velocity (TIV) speed motor; Hall effect circuitry; Delglide® automated changing mechanism

GT-350AP

Price \$209.95
Dimensions 5¾H x 17¾W x 14½D
Weight 15 lbs.
Type Fully automatic
Speeds 33 1/3; 45
Speed adj. ±3% (with LED strobe)
Motor type DC servo
Drive type Belt
Rumble -68 dB (weighted per DIN B standard)

Wow/Flutter 0.06% (weighted per DIN B standard)

Eff. arm mass 12 grams (including headshell)
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 3 grams
Resonance 9 Hz (with Shure M95ED cartridge)
Track. error 0.05 degrees
Headshell Removable
Features Front access controls; carbon fiber headshell; low-mass tonearm; Delglide® automatic changing system

GT-250

Price \$199.95
Dimensions 7¾H x 17¾W x 14½D
Weight 15 lbs.
Type Changer
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type Synchro-Lab
Drive type Belt
Rumble -65 dB (weighted per DIN B standard)

Wow/Flutter 0.08% (weighted per DIN B standard)

Eff. arm mass 12 grams (including headshell)
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 3 grams
Resonance 9 Hz (with Shure M95ED cartridge)
Track. error 0.05 degrees
Headshell Removable
Features Front controls; carbon-fiber headshell; low-mass tonearm; low-friction jewel pivots; Delglide® automatic changing mechanism

GT-25AP-1

Price \$169.95
Dimensions 5¾H x 17¾W x 13¾D
Weight 14 lbs. 8 oz.
Type Fully automatic
Speeds 33 1/3; 45
Speed adj. None
Motor type 4-pole synchronous
Drive type Belt
Rumble -65 dB (DIN B)
Wow/Flutter 0.08% (DIN B)

Eff. arm mass 12 grams (including headshell)
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 4 grams
Resonance 9 Hz (with Shure M95ED cartridge)
Track. error 0.05 degree per minute
Headshell Removable
Features Delglide® modular changing mechanism driven by its own belt

GT-15

Price \$144.95
Dimensions 7¾H x 16½W x 13¾D
Weight 14 lbs. 8 oz.
Type Automatic repeat; changer
Speeds 33 1/3; 45
Speed adj. None
Motor type 4-pole synchronous
Drive type Belt
Rumble 60 dB (DIN B)
Wow/Flutter 0.12% (DIN B)

Eff. arm mass 10 grams
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 4 grams
Resonance 9 Hz (with Shure M93E cartridge)
Track. error 0.05 degrees
Headshell Removable
Features Delglide® modular automatic changing mechanism driven by its own belt; low-mass tonearm

730M

Price \$90
Dimensions 8½H x 15W x 16½D
Weight 14 lbs.
Type Automatic repeat; changer
Speeds 33 1/3; 45; 78
Speed adj. None
Motor type 4 pole
Drive type Idler
Rumble -55 dB (DIN B)
Wow/Flutter 0.10 (DIN B)
Eff. arm mass 7 grams
Cueing Yes
VTF 2 to 6 grams
Antiskating 2 to 6 grams
Headshell Fixed
Features Low-mass arm; factory-mounted magnetic cartridge; removable overarm stabilizer

Models also available

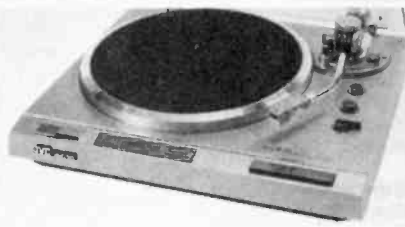
GT-35, \$219.95; GT-35AP-1, \$199.95; DD-131, \$199.95; GT-25, \$190; GT-250AP, \$179.95; DD-130, \$169.95; GT-12, \$119.95; 720C, \$70

HARMAN KARDON

**Harman Kardon, Inc.
 55 Ames Court
 Plainview, N.Y. 11803**



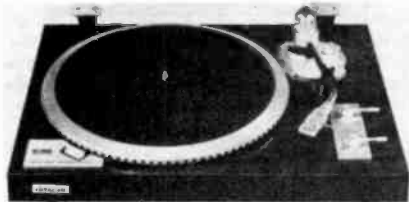
Garrard GT-350AP



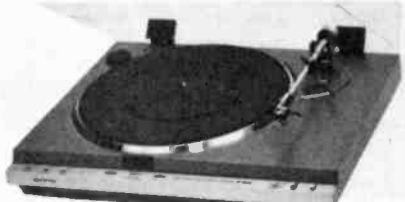
JVC QL-F6



Kenwood KD-650



Hitachi HT-550



Onkyo CP-1020F



Philips 829

ST-8

Price \$399
 Dimensions 6¾H x 16½W x 16¼D
 Weight 23 lbs.
 Type Semiautomatic
 Speeds 33 1/3; 45
 Speed adj. ±5.5%
 Motor type Brushless DC Hall effect
 Drive type Belt
 Rumble -68 dB (weighted per DIN B standard)
 Wow/Flutter 0.04% (weighted per NAB standard)
 Eff. arm mass 6 grams
 Cueing Yes
 VTF 0.25 to 2.5 grams
 Antiskating None
 Resonance 11 Hz (with Ortofon LM-30 cartridge)
 Track. error 0 degree
 Headshell Removable
 Features Straight-line tracking; touch controls; built-in level; automatic liftoff; Rolamite pivot bearings; skating force; stylus overhang

Models also available

ST-5, \$299

HITACHI

Hitachi Sales Corp. of America
 406 W. Artesia Blvd.
 Compton, Calif. 90220

HT-550

Price \$300
 Dimensions 5½H x 18¾W x 15D
 Weight 22 lbs.
 Type Semiautomatic
 Speeds 33 1/3; 45
 Motor type Uni-torque quartz
 Drive type Direct
 Wow/Flutter 0.025%
 VTF 0 to 3 grams
 Headshell Removable

HT-324

Price \$120
 Dimensions 5H x 17 1/8W x 14 5/8D
 Weight 10 lbs.
 Type Semiautomatic
 Speeds 33 1/3; 45
 Motor type 4-pole synchronous
 Drive type Belt
 Rumble -65 dB
 Wow/Flutter 0.06% (weighted per WRMS standard)

Cueing Yes
 VTF 0 to 3 grams
 Track. error 2 degrees
 Headshell Removable
 Features Antiskating control

Models also available

HT-463, \$240; HT-356, \$200

JVC

JVC America Co.
 58-75 Queens Midtown
 Expressway
 Maspeth, N.Y. 11378

QL-10

Price \$1,250
 Dimensions 7¾H x 20¼W x 16¼D
 Weight 42 lbs. 14 oz.
 Type Manual
 Speed adj. ±6 Hz
 Motor type Coreless DC servo quartz-lock
 Drive type Direct
 Rumble 75 dB (DIN B)
 Wow/Flutter 0.02% (WRMS)
 VTF 0 to 3 grams (0.1-gram steps)
 Track. error +1 degree, 48 min; -1 degree, 31 min

QL-F6

Price \$400
 Dimensions 5 19/32H x 17 61/64W x 15¾D
 Weight 24 lbs. 3 oz.
 Type Automatic repeat
 Speeds 33 1/3; 45
 Speed adj. ±6%
 Motor type Coreless DC servomotor
 Drive type Direct
 Rumble -78 dB (weighted per DIN B standard)
 Wow/Flutter 0.013% (weighted per WRMS standard)

Cueing Yes
 VTF 0 to 3 grams
 Track. error +2 degrees 28 seconds to 1 degree 20 seconds

Headshell Removable
 Features Double servo quartz system; oil damped tonearm

QL-F4

Price \$230
 Dimensions 5¾H x 18¼W x 14¾D
 Weight 16 lbs.
 Type Fully automatic
 Motor type Coreless DC servo quartz-lock
 Drive type Direct

Rumble 72 dB (DIN B)
 Wow/Flutter 0.025% (WRMS)
 VTF 0 to 3 grams
 Track. error +3 degrees, 35 min; -0 degree, 43 min
 Headshell Removable

L-All

Price \$110
 Dimensions 5½H x 17¼W x 14 15/16D
 Weight 9 lbs. 14 oz.
 Type Semiautomatic
 Speeds 33 1/3; 45
 Motor type 4-pole synchronous
 Drive type Belt
 Rumble -63 dB (weighted per DIN B standard)
 Wow/Flutter 0.06% (weighted per WRMS standard)
 Cueing Yes
 VTF 0 to 3 grams
 Track. error +3 degrees 35 to 0 degree 43 seconds
 Headshell Removable

Models also available

QL-7, \$300; QL-5, \$270; QL-50, \$250; QL-A2, \$190; L-A55, \$160

KENWOOD

Kenwood Electronics
 75 Seaview Drive
 Secaucus, N.J. 07094

KD-750

Price \$520
 Dimensions 6 ½H x 19 5/15W x 16 5/8D
 Weight 38 lbs. 9 oz.
 Type Manual
 Speeds 33 1/3; 45
 Motor type Quartz PLL
 Drive type Direct
 Rumble -74 dB (weighted per DIN standard)
 Wow/Flutter 0.022%
 Cueing Yes
 VTF 0 to 3 grams
 Antiskating 0 to 3 grams
 Track. error 1.5 degrees
 Headshell Removable
 Features Antiresonance base

KD-650

Price \$400
 Dimensions 6½H x 19 5/16W x 18 1/8D
 Weight 33 lbs. 14 oz.
 Type Manual
 Speeds 33 1/3; 45
 Motor type Quartz PLL

Drive type Direct
Rumble -12 dB (weighted per DIN standard)
Wow/Flutter 0.025% (weighted per WRMS standard)
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error 1.8 degree
Headshell Removable
Features Antiresonance base

KD-5070

Price \$285
Dimensions 6½H x 18¾W x 14½D
Weight 25 lbs. 5 oz.
Type Fully automatic
Speed adj. ±3%
Motor type 20-pole, 30-slot brushless DC servo

Drive type Direct
Rumble -73 dB (DIN)
Wow/Flutter 0.025% (WRMS)
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error ±1.5
Headshell Removable
Features Antiresonance base

KD-1500

Price \$119
Dimensions 5½H x 18 7/16W x 14 5/16D
Weight 10 lbs. 9 oz.
Type Semiautomatic
Speeds 33 1/3; 45
Motor type 4-pole synchronous
Drive type Belt
Rumble -65 dB
Wow/Flutter 0.05%
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error 1.5 degree
Headshell Removable
Features Damped tonearm reduces resonance peaks

Models also available

KD-600, \$350 (tonearm not included); KD-550, \$300; KD-500, \$250; KD-3100, \$199; KD-2000, \$158

LAFAYETTE

Lafayette Electronics Corp.
111 Jericho Turnpike
Syosset, N.Y. 11791

T-5000

Price \$249.99
Dimensions 5H x 17½W x 15D
Weight 19 lbs.
Type Automatic repeat
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type DC servo
Drive type Direct
Rumble 65 dB (DIN B)
Wow/Flutter 0.03%
Cueing Yes
VTF 0.5 to 3 grams
Headshell Removable
Features Touch-sensitive switching; Independent AC motor for tonearm drive; front-mounted controls for fully-closed operation

T-1000

Price \$89.99
Dimensions 5¾H x 17¼W x 14½D
Weight 18 lbs.
Type Manual

Speeds 33 1/3; 45
Motor type 4-pole synchronous
Drive type Belt
Rumble -60 dB (weighted per DIN B Standard)
Wow/Flutter 0.08%
Cueing Yes
VTF 1 to 3 grams
Antiskating 1 to 3 grams
Headshell Removable
Features Low-capacitance cables

Models also available

T-4000, \$129.99; T-2000, \$109.99

LENCO

Neosonic Corp. of America
180 Miller Place
Hicksville, N.Y. 11801

L-833DD

Price \$300
Type Semiautomatic
Speed adj. ±4%
Motor type DC
Drive type Direct
Rumble -70 dB (DIN B)
Wow/Flutter ±0.06% (DIN)
VTF 0 to 5 grams
Resonance Electronic arm lift and auto stop; precision-point tonearm bearing; 9" tonearm

L-133

Price \$130
Type Semiautomatic
Motor type 16-pole synchronous
Drive type Belt
Rumble -62 dB (DIN B)
Wow/Flutter ±0.08% (DIN)
Cueing Viscous-damped
VTF 0 to 5 grams
Features "S"-shaped arm

Models also available

L-236, \$180

LINN PRODUCTS, LTD.

Audiophile Systems
5750 Rymark Court
Indianapolis, Ind. 46250

Linn-Sondek LP-12

Price \$765
Dimensions 5½H x 17½W x 14D
Weight 25 lbs.
Type Manual
Speeds 33 1/3
Speed adj. None
Motor type 24-pole synchronous
Drive type Belt
Rumble -60 dB (unweighted)
Wow/Flutter 0.04% (WRMS)
Features Single-point oil-bath bearing; sold without tonearm

LUX

Lux Audio
160 Dupont St.
Plainview, N.Y. 11803

Luxman PD-444

Price \$845

Dimensions 6¼H x 26¼W x 15¾D
Weight 56 lbs. 2 oz.
Type Manual (no arm)
Speeds 33 1/3; 45
Speed adj. None
Motor type Quartz-lock, DC brushless servo, load-free
Drive type Direct
Rumble -75 dB
Wow/Flutter 0.025% (WRMS)
Features Provisions for two tonearms, one up to 16" in length (tonearms not included); selector switch for tonearm; detachable hinged clear lucite dust cover; lock indicator; double shock-absorbing insulators (height-adjustable)

Luxman PD-277

Price \$395
Type Fully automatic
Speeds 33 1/3; 45
Motor type Brushless slotless DC servomotor
Cueing Yes
VTF 0 to 3 grams
Track. error +2° 13', -1° 08'
Headshell Fixed
Features Manual-auto-repeat selector; oil-damped queuing system

Luxman PD-272

Price \$345
Dimensions 6H x 18¾W x 13¾D
Weight 26 lbs. 6 oz.
Type Manual
Speeds 33 1/3; 45
Speed adj. ±4% (independently for each speed)
Motor type DC brushless servo, slotless
Drive type Direct
Rumble -60 dB (IEC B)
Wow/Flutter 0.03% (WRMS)
Cueing Yes
VTF 0 to 3 grams
Antiskating 0.5 to 3 grams
Track. error +2 degrees, 13 min; -1 degree, 0.08 min
Headshell Fixed
Features Detachable hinged clear lucite dust cover; double shock-absorbing insulators (height-adjustable); mirror-reflex type stroboscope

Models also available

Luxman PD-441, \$675; PD-270, \$285

MARANTZ

Marantz, Inc.
20525 Nordhoff St.
Chatsworth, Calif. 91311

6370Q

Price \$470
Dimensions 5¾H x 18¾W x 15D
Weight 18 lbs. 11 oz.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±6%
Motor type Quartz-locked DC servo
Drive type Direct
Rumble 70 dB (NAB)
Wow/Flutter 0.02% (WRMS)
Eff. arm mass 17.5 grams
VTF 0 to 3 grams
Antiskating 0 to 4 grams
Resonance 7.7 Hz (with Shure V-15 Type III cartridge)
Track. error 0.07 degree/cm
Headshell Removable
Features Quartz-locked at any speed; digital speed readout of RPM or percentage change from standard speed; oil-damped arm; low-distortion tonearm; separate motor for arm lift and return; dust cover and base; shock-absorbent feet

TT-4000

Price \$250
Dimensions 5½H x 17¾W x 15D
Weight 18 lbs. 12 oz.
Type Semiautomatic
Speeds 33 1/3; 45
Motor type Brushless, slotless, coreless 8-pole, 2-phase quartz-locked
Drive type Direct
Rumble -72 dB (weighted per DIN B standard)
Wow/Flutter 0.025% (weighted per WRMS standard)
Eff. arm mass 12 grams
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 4 grams
Resonance 10 Hz with Shure V-15 Type IV cartridge)
Track. error 0.07 degree/cm
Headshell Removable
Features Reject button; automatic arm return and shut-off; includes smoke dust cover and shock-absorbent feet

Models also available

TT-2000, \$200; 6025, \$130

MCS® SERIES

J.C. Penney
1301 Ave. of the Americas
New York, N.Y. 10019

6700

Price \$230
Dimensions 6 15/16H x 17¾W x 14½D
Weight 21 lbs.
Type Changer
Speeds 33 1/3; 45
Speed adj. ±6%
Motor type DC servo
Drive type Direct
Rumble -70 dB (weighted per DIN B standard)
Wow/Flutter 0.04% (weighted per TIS-WTD standard)
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error 3.5 degrees
Headshell Removable
Features Shure cartridge (\$50 value); hinged dust cover; 45 RPM adapter

6502/6503

Price \$130
Dimensions 5 5/16H x 16¾W x 13¾D
Weight 13 lbs.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±6% (strobe)
Motor type DC servo
Drive type Belt
Rumble -65 dB (weighted per DIN B standard)
Wow/Flutter 0.06% (weighted per TIS-WTD standard)
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 4 grams
Track. error 3.5 degrees
Headshell Fixed
Features Audio-Technica cartridge (\$45 value); hinged dust cover; 45 rpm adapter

Models also available

6601, \$180

MICHELL ENGINEERING

Dick Wagner (Distributor)
5930 Penfield Ave.
Woodland Hills, Calif. 91367

Prisma

Price \$650 (tonearm not included)
Dimensions 9H x 21W x 15D
Weight 27 lbs.
Type Manual
Speeds 33 1/3; 45
Speed adj. ±10%
Motor type Pancake type DC brushless servo
Drive type Belt
Rumble -50 dB (weighted per DIN B standard), -70 dB (unweighted)
Wow/Flutter 0.04% (weighted per DIN B standard)

Focus One

Price \$400 (tonearm not included)
Dimensions 6H x 17W x 18D
Weight 19 lbs.
Type Manual
Speeds 33 1/3; 45
Speed adj. None
Motor type Low-speed synchronous recoil start
Drive type Belt
Rumble -50 dB (weighted per DIN B standard), -70 dB (unweighted)
Wow/Flutter 0.05% (weighted per standard)

Models also available

Hydraulic Reference, \$550 (tonearm not included)

MICRO SEIKI

Great American Sound
20940 Lassen St.
Chatsworth, Calif. 91311

BL-91L

Price \$1,099

BL-91

Price \$700

DQ-3

Price \$475

DD-33

Price \$435
Dimensions 6½H x 18¾W x 14¾D
Weight 17 lbs. 6 oz.
Type Semiautomatic
Speed adj. ±6%
Motor type DC servo
Drive type Direct
Rumble 75 (DIN B)
Wow/Flutter 0.03% (WRMS)
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error 1.5 degree
Features Variable-mass/dynamic-balanced tonearm

DQ-41

Price \$400

BL-51

Price \$390

DD-31

Price \$350

MB-14

Price \$175
Dimensions 5½H x 17¾W x 13¾D
Weight 13 lbs. 3 oz.
Type Semiautomatic
Motor type 4-pole synchronous
Drive type Belt
Rumble 65 dB (DIN B)
Wow/Flutter 0.06% (WRMS)
VTF 0 to 3 grams
Antiskating 0.75 to 2 grams
Resonance 1.5 degree
Track. error 1.5 degree

Models also available

DD-24, \$250

MITSUBISHI AUDIO SYSTEMS

Melco Sales, Inc.
3030 E. Victoria
Compton, Calif. 90221

DP-EC20

Price \$520
Dimensions 5¾H x 18½W x 15½D
Weight 30 lbs. 13 oz.
Type Automatic repeat
Speeds 33 1/3; 45
Motor type QC PLL DC Servo
Drive type Direct
Rumble -80 dB (weighted per DIN standard)

Wow/Flutter 0.025% (weighted per DIN standard)

Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error +2.9/-1.5 degrees

Headshell Removable
Features Horizontal and vertical arm motion motor driven via front panel controls; optical speed and disc size selection; die-cast magnesium alloy headshell; wave-shaped LED strobe; fully logic controlled

DP-EC7

Price \$300
Dimensions 5¾H x 18½W x 15½D
Weight 20 lbs. 14 oz.
Type Automatic repeat
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type Frequency generator DC servo
Drive type Direct
Rumble -73 dB (weighted per DIN B standard)

Wow/Flutter 0.03% (weighted per DIN standard)

Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error +2.9/-1.5 degrees
Headshell Removable
Features Horizontal and vertical arm motion motor driven via front panel controls; optical speed and disc size selection; FRP headshell; fully logic controlled

Models also available

DP-EC10, \$400

NAD
NAD (USA), Inc.
Mackintosh Lane
P.O. Box 529
Lincoln, Mass. 01773

NAD-5080

Price \$250

Dimensions 6H x 18½W x 15D
Weight 16 lbs. 13 oz.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±6%
Motor type Brushless (with strobe)
Drive type Direct
Rumble -70 dB (weighted per DIN B standard)
Wow/Flutter 0.03% (weighted per WRMS standard)
Cueing Yes
VTF 0 to 3.5 grams
Antiskating 0 to 3 grams
Track. error 0.2/cm (0.5/in)
Headshell Removable

Models also available

NAD-5040, \$212; NAD-5020, \$177

ONKYO

Onkyo U.S.A. Corp.
 42-07 20th Ave.
 Long Island, N.Y. 11105

CP-1020 F

Price \$219.95
Dimensions 5¼H x 17¾W x 14½D
Weight 12 lbs. 13 oz.
Type Automatic repeat
Speeds 33 1/3; 45
Speed adj. ±2%
Motor type Brushless, cordless, slotless FG DC servo
Drive type Direct
Wow/Flutter 0.035%
Eff. arm mass 14 grams
Cueing Yes
VTF 0.5 to 3 grams
Antiskating 0.5 to 3 grams
Track. error +3,-1 degrees
Headshell Removable
Features Straight line low mass tonearm; repeat memory; 2 motors; optical shutoff mechanism

ORTONICA

Sharp Electronics Corp.
 10 Keystone Place
 Paramus, N.J. 07652

RP-7705

Price \$400
Dimensions 4 3/10H x 18 9/10W x 15 1/10D
Weight 20 lbs.
Type Automatic repeat
Speeds 33 1/3; 45
Speed adj. ±4%
Motor type DC servo with quartz-locked system
Drive type Direct
Rumble -70 dB
Wow/Flutter Weighted per DIN B standard
Cueing Yes
VTF 1 to 4 grams
Antiskating 1 to 4 grams
Resonance 8 Hz
Headshell Removable
Features APLD® (Auto program locate device) with separate sensor arm; auto record size sensor; separate arm motor; soft-touch front-mounted controls

RP 7505

Price \$280
Dimensions 5¾H x 18¼W x 14¼D
Weight 20 lbs.

Type Fully automatic
Speed adj. ±4%
Motor type Frequency-generator DC coreless
Drive type Direct
Rumble -70 dB (DIN B)
Wow/Flutter 0.03% (JIS)
VTF 1 to 4 grams
Antiskating 1 to 3 grams
Resonance 8 Hz
Features Metal-impregnated resin base

Models also available

RP-4705, \$280; RP-7205, \$200

PHASE LINEAR

Phase Linear Corp.
 20121 48th Ave. W.
 Lynnwood, Wash. 98036

8000 Series Two

Price \$749.95
Dimensions 6H x 19 2/5W x 17½D
Weight 26 lbs. 8 oz.
Type Fully automatic, auto repeat, manual
Speeds 33 1/3; 45
Speed adj. ±0%
Motor type DC (totally enclosed)
Drive type Direct quartz-locked PLL_Hall effect
Rumble -78 dB (weighted per DIN B standard)
Wow/Flutter 0.013%
Cueing Yes
VTF 0 to 5 grams
Track. error 0 degree
Headshell Removable
Features Linear motor; tangential tracking tonearm; speed deviation less than 0.002%; all controls accessible with dust cover closed

PHILIPS

Philips High Fidelity Laboratories
 P.O. Box 2208
 Ft. Wayne, Ind. 46801

AF-977

Price \$300
Speeds 33 1/3; 45
Drive type Direct control
Wow/Flutter 0.02%

AF-829

Price \$300
Speeds 33 1/3; 45
Wow/Flutter 0.03%

AF-877

Price \$260
Dimensions 5½H x 16½W x 13¾D
Weight 13 lbs.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type DC with closed-loop speed control
Drive type Direct control
Rumble 70 dB (DIN B)
Wow/Flutter 0.03% (WRMS)
Eff. arm mass 16.5 grams
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 10 Hz (with test cartridge)

Track. error 0° 9'/cm
Headshell Removable
Features Free-floating subchassis; touch controls; LED speed readout; plitch controls; direct-read stylus-force gauge; photoelectronic stop

GA-406

Price \$170
Dimensions 5¾H x 16¾W x 13½D
Weight 14 lbs.
Type Changer
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type 2 DC servomotors
Drive type Belt
Rumble -60 dB (DIN B)
Wow/Flutter 0.1% (DIN)
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 4 grams
Track. error 9 min/cm
Headshell Fixed
Features Automatic speed and record diameter selection; separate drive systems for play and change cycles

AF-677

Price \$150
Wow/Flutter 0.04%

Models also available

AF-867, \$230; AF-777, \$200; AF-685, \$139.95

PIONEER

U.S. Pioneer Electronics Corp.
 85 Oxford Drive
 Moonachie, N.J. 07074

PL-630

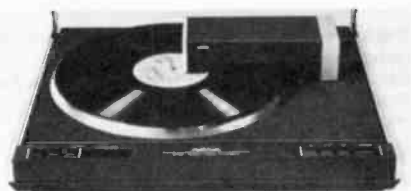
Price \$449
Dimensions 5¾H x 18½W x 16½D
Weight 26 lbs. 8 oz.
Type Automatic repeat
Speed adj. ±6%
Motor type Quartz PLL Hall-effect
Drive type Direct
Rumble 75 dB (DIN B)
Wow/Flutter 0.025% (WRMS)
VTF 0 to 4 grams
Antiskating 0 to 4 grams
Features Anti-feedback cabinet and coaxial suspension; static-balanced S-shaped tonearm with 4-point gimbal support; magnesium die-cast headshell; quick stop, quick play; LED function indicators

PL-560

Price \$329
Dimensions 5¾H x 18W x 14¾D
Weight 23 lbs.
Type Automatic repeat
Speed adj. ±6%
Motor type Quartz PLL Hall-effect
Drive type Direct
Rumble 73 dB (DIN B)
Wow/Flutter 0.025% (WRMS)
VTF 0 to 4 grams
Antiskating 0 to 4 grams
Features Anti-feedback solid-board cabinet and rubber/spring insulator; static-balanced S-shaped tonearm with aluminum die-cast base; glass-fiber headshell; strobe illumination light

PL-518

Price \$199
Dimensions 5¾H x 17¾W x 14¾D
Weight 21 lbs.
Type Semiautomatic
Speed adj. ±2%



Revox B-790



Teac PX-300



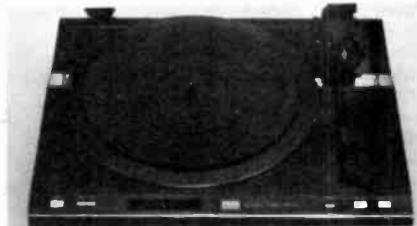
Stanton 8005 Series



Thorens TD-126C Mk III



Sanyo Q-50



Sansui XR-Q9

Motor type DC servo
 Drive type Direct
 Rumble -73 dB (DIN B)
 Wow/Flutter 0.03% (WRMS)
 VTF 0 to 4 grams
 Antiskating 0 to 4 grams
 Track error +3, -1 degrees (0.525 degree/in)
 Features Low-feedback construction

Models also available

PL-610, \$399; PL-540, \$249; PL-516, \$159; PL-514, \$139

REALISTIC Radio Shack

1400 One Tandy Center
 Ft. Worth, Texas 76102

LAB-500

Price \$259.95 (with cartridge)
 Dimensions 6 1/8"H x 18 3/4"W x 15 3/16"D
 Type Automatic repeat
 Speeds 33 1/3; 45
 Motor type 12-pole brushless DC servo
 Drive type Direct
 Rumble -68 dB
 Wow/Flutter 0.04%
 Cueing Yes
 Headshell Removable
 Features Quartz-locked for 0.0005% speed accuracy; 3.1 lbs. aluminum alloy die-cast platter

Models also available

LAB-400, \$200 (with cartridge);
 LAB-260, \$139.95 (with cartridge)

REFERENCE

CBS Retail Stores
 1301 65th St.
 Emeryville, Calif. 94608

620T

Price \$249.95
 Dimensions 6 1/10"H x 18"W x 13 1/5"D
 Speeds 33 1/3; 45
 Speed adj. ±3% (strobe)
 Motor type 2-pole 30-slot DC servo
 Drive type Direct
 Rumble -70 dB (weighted per DIN B standard)
 Cueing No
 VTF 0 to 3 grams
 Features Adjustable antiskate; automatic shutoff

Models also available

510T, \$139.95

REGA

Import Audio
 13430 Clayton Rd.
 St. Louis, Mo. 63131

Planar 3

Price \$360 (without arm); \$485 (with arm)
 Dimensions 5H x 17 1/2W x 14D
 Type Manual
 Motor type 24-pole synchronous
 Drive type Belt
 VTF 0 to 3 grams
 Antiskating 0 to 3 grams
 Track error 1.5 degree/in
 Features Precision-ground glass platter; includes base, dust cover, felt mat for records

Planar 2

Price \$270 (without arm); \$375 (with arm)
 Dimensions 4 3/4"H x 17 3/4"W x 14 1/2"D
 Type Manual
 Motor type 24-pole synchronous
 Drive type Belt
 VTF 0 to 3 grams
 Antiskating 0 to 3 grams
 Track error 1.5 degree/in
 Features Precision-ground glass platter; includes base, dust cover, rubber mat for records

REVOX

Studer ReVox America, Inc.
 1819 Broadway
 Nashville, Tenn. 37203

B-790

Price \$899 with Ortofon cartridge
 Dimensions 5 5/8"H x 17 3/4"W x 15"D
 Weight 24 lbs. 4 oz.
 Type Semiautomatic
 Speeds 33 1/3; 45
 Speed adj. ±7%
 Motor type Quartz-controlled PLL servo
 Drive type Direct
 Rumble -68 dB (DIN-weighted) (DIN)
 Wow/Flutter 0.05% (DIN-weighted)
 Eff. arm mass 1 gram
 Cueing Yes
 VTF 0.5 to 2 grams

Antiskating Not required
 Resonance 12 to 15 Hz (with Ortofon cartridge)
 Track error 0.5 degree
 Headshell No headshell used, due to true tangential-tracking design
 Features True tangential tracking with opto-electronic servo control; radical 4-cm tonearm has negligible mass; digital speed display

ROTEL

Rotel of America, Inc.
 1055 Saw Mill River Road
 Ardsley, N.Y. 10502

RP-9400

Price \$375
 Dimensions 6H x 17 23/32W x 14D
 Weight 19 lbs.
 Type Automatic repeat
 Speeds 33 1/3; 45
 Speed adj. ±4% (strobe)
 Motor type Quartz-lock PLL DC servo
 Drive type Direct
 Wow/Flutter 0.025% (weighted per DIN B standard)

Cueing Yes
 VTF 0.7 to 3 grams
 Antiskating 0 to 3 grams
 Headshell Removable
 Features Two independent motors; front-panel controls; low mass, static balanced straight tonearm; removable cover; light glass fiber headshell

RP-2400

Price \$160
 Dimensions 5 1/8"H x 17 23/32W x 13 25/32D
 Weight 13 lbs.
 Type Semiautomatic
 Speeds 33 1/3; 45
 Motor type 4-pole hysteresis synchronous
 Drive type Belt
 Wow/Flutter 0.06%
 Cueing Yes
 VTF 1 to 3 grams
 Antiskating 0 to 3 grams
 Headshell Removable

Models also available

RP-6400, \$235; RP-4400, \$200

SANSUI

Sansui Electronics Corp.
 1250 Valley Brook Ave.
 Lyndhurst, N.J. 07071

SR-929

Price \$530
Dimensions 6 $\frac{1}{8}$ "H x 19 5/16" x 15D
Weight 36 lbs. 6 oz.
Type Manual
Speeds 33 1/3; 45
Speed adj. \pm 3.5%
Motor type 20-pole, 30-slot DC brushless with built-in frequency generator
Drive type Direct
Rumble -74 dB (DIN B)
Wow/Flutter 0.022% (WRMS)
Cueing Yes
VTF 0 to 2 grams
Antiskating 0 to 2 grams
Headshell Removable
Features Quartz-servo; strobe; heavy-weight cabinet (a solid-particle board enclosure mounted on a resin-concrete base) with removable, free-stop hinged dust cover and height-adjustable insulators

XR-Q9

Price \$500
Type Fully automatic
Speeds 33 1/3; 45
Motor type Quartz-PLL servo
Drive type Direct
Rumble -78 dB (weighted per DIN B standard)
Wow/Flutter 0.018% (weighted per WRMS standard)
Cueing Yes
Features LSI logic control; DOB straight tonearm; magnetic pulse speed regulation system; acoustic and physical isolation of tonearm and motor; bulk molding compound base; black piano finish; front controls; dust cover

FR-Q5

Price \$340
Dimensions 5 $\frac{1}{4}$ "H x 17 11/32" x 15 5/32D
Weight 15 lbs. 2 oz.
Type Fully automatic
Speeds 33 1/3; 45
Motor type DC brushless quartz pulse servomotor
Drive type Direct
Rumble -75 dB (weighted per DIN B standard)
Wow/Flutter 0.018% (weighted per WRMS-direct standard)
Cueing Yes
Headshell Removable
Features Front controls; strobe; dust cover; dyna-optimum balanced tonearm; CPU computer-controlled; magnetic pulse speed regulator system

Models also available

SR-838, \$440; FR-D4, \$240; FR-D3, \$190; SR-B200S, \$135

SANYO

Sanyo Electric Inc.
Consumer Electronics Div.
1200 W. Artesia Blvd.
Compton, Calif. 90220

TP-1030

Price \$169.95
Dimensions 6 $\frac{1}{2}$ "H x 18 $\frac{3}{4}$ "W x 15D
Type Fully automatic
Speeds 33 1/3; 45
Speed adj. Pitch control (with strobe)
Motor type Brushless platter motor; DC tonearm motor
Drive type Direct
Rumble -70 dB
Wow/Flutter 0.03%

Cueing Viscous-damped
VTF 0 to 3 grams
Antiskating Adjustable; calibrated
Track. error \pm 15 degrees
Headshell Removable
Features Electronic speed control; lateral counter-balance; stylus mirror

PLUS SERIES

PLUS Q-50

Price \$299.95
Dimensions 6H x 17 $\frac{3}{8}$ "W x 14 $\frac{1}{2}$ "D
Type Fully automatic
Speeds 33 1/3; 45
Speed adj. Pitch control
Motor type 20-pole, 30-slot brushless platter motor; DC tonearm motor
Drive type Direct
Rumble -73 dB
Wow/Flutter 0.025%
Eff. arm mass 15.4 grams
Cueing Yes
VTF 0 to 3 grams
Antiskating Adjustable; calibrated
Track. error \pm 1.5 degrees
Headshell Removable
Features High density platter; high-torque motor; carbon-fiber headshell; disc size selector; cue control; suspension/isolation system

PLUS Q-25

Price \$179.95
Dimensions 5 $\frac{1}{2}$ "H x 17 $\frac{3}{8}$ "W x 15D
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. Strobe
Motor type 20-pole, 30-slot brushless
Drive type Direct
Rumble -70 dB
Wow/Flutter 0.03%
Eff. arm mass 14.7 grams
Cueing Yes
VTF 0 to 3 grams
Antiskating Adjustable; calibrated
Track. error \pm 1.5 degrees
Headshell Removable
Features Quartz-locked PLL speed control; straight arm with ABS headshell, front panel controls; cue; reject; ultra low friction tonearm mounting; high density base; sealed rubber damped suspension

Models also available

TP-1012/A, \$139.95; TP-1005, \$89.95; PLUS Q-60, \$549.95; PLUS Q-40, \$199.95

H. H. SCOTT

H. H. Scott, Inc.
20 Commerce Way
Woburn, Mass. 01801

PS-97XV

Price \$260
Dimensions 5 $\frac{1}{2}$ "H x 17 $\frac{1}{4}$ "W x 13 $\frac{3}{4}$ "D
Weight 21 lbs.
Type Automatic repeat
Speeds 33 1/3; 45
Speed adj. \pm 3%
Motor type 72-pole FG AC servomotor
Drive type Direct
Wow/Flutter 0.03% (WRMS)
Eff. arm mass 15.6 grams
Cueing Yes
VTF 1 to 3 grams
Antiskating 0 to 3 grams
Resonance 8.5 Hz
Headshell Removable

Features Quartz synthesizer speed lock with indicator; strobe light with adjustable speed control; record-size selector and spare headshell holder

PS-87A

Price \$210
Dimensions 5 $\frac{1}{4}$ "H x 17 $\frac{1}{4}$ "W x 13 $\frac{3}{4}$ "D
Weight 22 lbs.
Type Automatic repeat
Speeds 33 1/3; 45
Speed adj. \pm 3%
Motor type 72-pole FG AC servomotor
Drive type Direct
Wow/Flutter 0.03% (WRMS)
Eff. arm mass 15.6 grams
Cueing Yes
VTF 1 to 3 grams
Antiskating 0 to 3 grams
Resonance 8.5 Hz
Headshell Removable
Features Strobe light with adjustable speed control; record-size selector; spare headshell holder

PS-47A

Price \$140
Dimensions 5 $\frac{1}{2}$ "H x 17 $\frac{1}{4}$ "W x 13 $\frac{3}{4}$ "D
Weight 15 lbs.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. \pm 3%
Motor type DC FG servo
Drive type Belt
Wow/Flutter 0.05% (WRMS)
Eff. arm mass 15.6 grams
Cueing Yes
VTF 1 to 4 grams
Antiskating 1 to 3 grams
Resonance 8.5 Hz
Headshell Removable
Features Strobe light with adjustable speed control

Models also available

PS-77XV, \$235; PS-67A, \$200; PS-17A, \$130

SERIES 20

Series 20
20 Jewell St.
Moonachie, N.J. 07074

PLC-590

Price \$550
Dimensions 7 $\frac{1}{4}$ "H x 19 $\frac{1}{4}$ "W x 16D
Weight 31 lbs.
Type Manual
Speed adj. \pm 6%
Motor type Quartz PLL Hall motor
Drive type Direct
Rumble -75 dB (DIN B)
Wow/Flutter 0.025% (WRMS)
Features Sold without tonearm; high-torque motor; die-cast aluminum base

SONEX

Anglo American Audio
P.O. Box 653
Buffalo, N.Y. 14240

SX-100

Price \$395
Dimensions 5 2/5"H x 17 3/10"W x 13 3/5"D
Weight 19 lbs. 13 oz.
Type Manual single-play
Speeds 33 1/3; 45
Motor type 24-pole hysteresis
Drive type Belt
Rumble -48 dB (weighed per DIN standard)
Wow/Flutter 0.04% (weighed per DIN standard)
Cueing Yes

VTF 0 to 3.5 grams
Antiskating 0 to 3.5 grams
Headshell Removable
Features Automatic end-of-record arm-lift and stop

SX-500

Price \$295
Dimensions 5 2/5H x 17 3/10W x 13 3/5D
Weight 19 lbs. 13 oz.
Type Manual single-play
Speeds 33 1/3; 45
Motor type 24-pole hysteresis
Drive type Belt
Rumble -48 dB
Wow/Flutter 0.04% (weighted per DIN standard)
Features Single-point bearing

SONY

Sony Corp. of America
9 West 57th St.
New York, N.Y. 10019

PS-D80

Price \$1,800
Dimensions 7 15/16H x 19 15/16W x 16 15/16D
Weight 33 lbs.
Type Fully automatic
Speeds 33 1/3; 45
Motor type DC
Drive type Direct
Rumble -78 dB (weighted per DIN B standard)
Wow/Flutter 0.02% (weighted per WRMS standard)
Eff. arm mass Electronically variable
Cueing Yes
VTF 0.5 to 3 grams
Antiskating 0.5 to 3 grams
Headshell Removable
Features Fully electronic 4 motor velocity feedback system with microprocessor control

PS-X70

Price \$500
Dimensions 6 1/4H x 18 15/16W x 16 9/16D
Weight 28 lbs. 4 oz.
Type Fully automatic
Speeds 33 1/3; 45
Speed adj. ±10%
Motor type DC
Drive type Direct
Rumble -75 dB (weighted per DIN B standard)
Wow/Flutter 0.025% (weighted per WRMS standard)
Cueing Yes
VTF 0 to 2.5 grams
Antiskating 0 to 2.5 grams
Track. error +2 degrees, 27 min., -1 degree, 30 min
Headshell Removable
Features Front-mounted controls; LED function indicators; separate tonearm motor

PS-X7

Price \$350
Type Automatic
Speed adj. Quartz-controlled; speed accuracy 0.003%
Motor type Brushless/slotless DC servo
Drive type Direct
Rumble -73 dB (DIN B)
Wow/Flutter 0.025% (WRMS)
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 7 to 9 Hz
Features Carbon-fiber arm; viscous-filled platter mat and rubber feet; 8-pole magnetic speed-monitoring head; acoustically dead base; optical sensor

PS-X40

Price \$275
Dimensions 5 3/4H x 17 1/2W x 15 3/4D
Weight 17 lbs. 10 oz.
Type Fully automatic
Speeds 33 1/3; 45
Motor type DC
Drive type Direct
Rumble -73 dB (weighted per DIN B standard)
Wow/Flutter 0.025% (weighted per WRMS standard)
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error +3, -1 degrees
Headshell Removable

PS-X5

Price \$245
Type Automatic
Speed adj. Quartz-controlled; speed accuracy ±0.003%
Motor type Brushless/slotless quartz-controlled DC servo
Drive type Direct
Rumble -73 dB (DIN B)
Wow/Flutter 0.025% (WRMS)
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 7 to 9 Hz
Features Eight-pole magnetic speed-monitoring head; acoustically dead base; viscous-filled feet; safety clutch

PS-T3

Price \$190
Type Automatic
Speed adj. ±4%
Motor type Brushless/slotless DC servo
Drive type Direct
Rumble -70 dB (DIN B)
Wow/Flutter 0.03% (WRMS)
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 7 to 9 Hz
Features Viscous-filled rubber feet; acoustically dead base; thick rubber platter mat

PS-T1

Price \$140
Dimensions 5 1/2H x 17 1/2W x 14 3/4D
Weight 11 lbs.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±4%
Motor type DC
Drive type Direct
Rumble -68 dB (weighted per DIN B standard)
Wow/Flutter 0.04% (weighted per WRMS standard)
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Headshell Removable
Features Front-mounted controls

Models also available

PS-P7X, \$400; PS-X60, \$400; PS-X50, \$330; PS-X6, \$290; PS-X30, \$245; PS-X20, \$210; PS-T25, \$170; PS-T2, \$150

STANTON GYROPOISE
Stanton Magnetics, Inc.
200 Terminal Drive
Plainview, N.Y. 11803

800 5A/881S
Price \$500

Type Semiautomatic
Features Includes 881S cartridge

8005M/881S

Price \$450
Type Manual
Features Includes 881S cartridge

8005A/681EEE

Price \$440
Type Semiautomatic
Features Includes 681EEE cartridge

8005M

Price \$300
Type Manual

Models also available

8005M/681EEE, \$390; 8005A, \$350

TEAC

Teac Corp. of America
7733 Telegraph Road
Montebello, Calif. 90640

PX-500

Price \$310
Dimensions 6 3/10H x 17 3/10W x 15D
Weight 17 lbs. 10 oz.
Type Semiautomatic
Speeds 33 1/3; 45
Motor type Quartz-lock DC
Drive type Direct
Rumble -170 dB (weighted per DIN standard)
Wow/Flutter 0.03% (weighted per rms standard)

Cueing Yes
Headshell Removable
Features Front panel controls; gimbal support tonearm

PX-300

Price \$210
Dimensions 6 3/10H x 17 3/10W x 15D
Weight 15 lbs. 7 oz.
Type Manual
Speeds 33 1/3; 45
Speed adj. ±6%
Motor type Brushless and slotless DC
Drive type Direct
Rumble -70 dB (weighted per DIN standard)

Wow/Flutter 0.03% (weighted per RMS standard)
Cueing Yes
Headshell Removable

TECHNICS

Panasonic Co.
1 Panasonic Way
Secaucus, N.J. 07094

SP-10 Mk II

Price \$900
Dimensions 4H x 14 1/2W x 14 1/2D
Weight 21 lbs.
Type Manual
Speeds 33 1/3; 45; 78
Speed adj. None
Motor type DC servo, quartz phase-locked
Drive type Direct
Rumble 78 dB (DIN B)
Wow/Flutter 0.025% (WRMS)
Features Sold without tonearm; builds up to full speed in 0.25 sec; stop time (dual braking) is 0.3 sec; remote control; separate power supply; overall speed accuracy of +0.002% (±0.036 sec in 1/2 hour); high torque (5 kg cm or 4.3 lbs in)

SP-15

Price \$600
Dimensions 3 21/32H x 13 3/4W x 14 41/64D
Weight 13 lbs. 11 oz.
Type Manual
Speeds 33 1/3; 45; 78
Speed adj. ±9.9%
Motor type Brushless DC
Drive type Direct
Rumble -78 dB (weighted per DIN B IEC 98A WTD standard); -56 dB DIN A TEC 98A unweighted)

Wow/Flutter 0.025% (weighted per JIS C5521 WRMS standard); ±0.035% peak (weighted per IEC 98A)

Features Digitally displayed quartz synthesizer pitch control in 0.1% steps; high torque; 0.4 sec start/stop time; electronic/mechanical breaking with quick release; pulsed power supply prevents hum induction; rubber-damped platter underside

SL-1600 Mk 2

Price \$400
Dimensions 5 7/8H x 17 27/32W x 15 45/64D
Weight 22 lbs.
Type Automatic repeat
Speeds 33 1/3; 45
Speed adj. ±6%
Motor type Brushless DC
Drive type Direct
Rumble -78 dB (weighted per DIN B IEC 98A weighted); -56 dB (DIN A, IEC 98A unweighted)

Wow/Flutter 0.025% (weighted per JIS C5521 standard); ±0.035% peak (weighted per IEC 98A)

Eff. arm mass 12 grams

Cueing Yes
VTF 0 to 2.5 grams
Antiskating 0 to 2.5 grams
Headshell Removable
Features Continuous, quartz-locked plitch control; high-torque underside damping mat on platter; automatic (infrared) disc size sensing; microcomputer controlled arm motion; pop-up styles illuminator; arm height adjustment

SL-5350

Price \$340
Dimensions 7 3/32H x 16 59/74W x 14 49/64D
Weight 15 lbs. 11 oz.
Type Changer
Speeds 33 1/3; 45
Speed adj. ±6%
Motor type Brushless DC
Drive type Direct
Rumble -78 dB (weighted per DIN B IEC 98A standard); -56 dB (DIN A, IEC 98A unweighted)

Wow/Flutter 0.025% (weighted per JIS C5521 standard); ±0.035% peak, (unweighted per IEC 98A)

Cueing Yes
VTF 0 to 2.5 grams
Antiskating 0 to 2.5 grams
Track. error 0 degree 32 min at inner groove; 2 degrees, 32 min at outer groove
Headshell Removable
Features Defeatable quartz-locked pitch accuracy; nonresonant base; all front-panel controls; stylus illuminator

SL-Q3

Price \$240
Dimensions 5 7/64H x 16 59/64W x 14 49/64D
Weight 15 lbs. 11 oz.
Type Automatic repeat
Speeds 33 1/3; 45
Speed adj. ±0%
Motor type Brushless DC
Drive type Direct
Rumble -78 dB (weighted per DIN B, IEC 98A standard); -56 dB (DIN A, IEC 98A unweighted)

Wow/Flutter 0.05% (weighted per JIS C5521 standard); ±0.035% peak (weighted per IEC 98A)

Eff. arm mass 12 grams
Cueing Yes
VTF 0 to 2.5 grams
Antiskating 0 to 2.5 grams
Track. error 0 degree 32 min at inner groove; 2 degrees, 32 min at outer groove
Headshell Removable
Features Quartz, phase-locked accuracy; front-panel controls; nonresonant base

SL-235

Price \$180
Dimensions 16 3/8H x 16 3/4W x 14 3/4D
Weight 10 lbs. 10 oz.
Type Changer
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type Full-integration FG servo-controlled DC

Drive type Belt
Rumble -70 dB (DIN B)
Wow/Flutter 0.045% (WRMS)
Eff. arm mass 13 grams
Cueing Yes
VTF 0.25 to 3 grams
Antiskating 0 to 3 grams
Track. error 0 degree, 32 min at inner groove; 2 degrees, 32 min at outer groove

Headshell Removable
Features Front-panel controls can be operated with dust cover closed; low-capacitance cables; includes Fiberglass-and-plastic base and dust cover

SL/D3

Price \$170
Dimensions 5 7/64H x 16 59/64W x 14 49/64D
Weight 15 lbs. 6 oz.
Type Automatic repeat
Speeds 33 1/3; 45
Speed adj. ±5%
Motor type Servo DC
Drive type Direct
Rumble -75 dB (weighted per DIN B, IEC 98A standard); -53 dB (DIN A, IEC 98A unweighted)

Wow/Flutter 0.03% rms (weighted per JIS C5521 standard); ±0.042% peak (weighted per IEC 98A)

Eff. arm mass 12 grams
Cueing Yes
VTF 0 to 2.5 grams
Antiskating 0 to 2.5 grams
Track. error 0 degree 32 min at inner groove; 2 degrees, 32 min at outer groove
Headshell Removable
Features Front-panel controls; nonresonant base

SL-D2

Price \$150
Dimensions 5 7/64H x 16 59/64W x 14 49/64D
Weight 15 lbs. 3 oz.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±5%
Motor type Servo DC
Drive type Direct
Rumble -75 dB (weighted per DIN B, IEC 98A standard); -53 dB (DIN A, IEC 98A unweighted)

Wow/Flutter 0.03% (weighted per JIS C5521 standard); ±0.042% peak (weighted per IEC 98A)

Eff. arm mass 12 grams
Cueing Yes
VTF 0 to 2.5 grams
Antiskating 0 to 2.5 grams
Track. error 0 degree 32 min at inner groove; 2 degrees, 32 min at outer groove
Headshell Removable
Features Same as Model SL-D3

SL-B2

Price \$130
Dimensions 4 31/32H x 16 59/64W x 14 49/64D
Weight 9 lbs. 14 oz.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±3%
Motor type Servo DC
Drive type Belt
Rumble -70 dB (weighted per DIN B, IEC 98A unweighted standard)

Wow/Flutter 0.045% (weighted per JIS C5521 standard); ±0.06% peak, (weighted per IEC 98A)

Eff. arm mass 12 grams
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error 0 degree 32 min at inner groove; 2 degrees, 32 min at outer groove
Headshell Removable

Models also available

SP-25, \$400; SL-1700 Mk.2, \$350; SL-1200 Mk.2, \$350; SL-1800 Mk.2, \$300; SL-3350, \$240; SL-Q2, \$200; SL-B3, \$150; SL-D1, \$125; SL-B1, \$100

THORENS

Elpa Marketing
Thorens and Atlantic Aves.
New Hyde Park, N.Y. 11040

TD-126C Mk III

Price \$825
Dimensions 6 3/8H x 19 7/8W x 15 1/2D
Weight 31 lbs.
Type Semiautomatic
Speeds 33 1/3; 45; 78
Speed adj. ±6%
Motor type DC
Drive type Belt
Rumble -72 dB (weighted per DIN standard)
Wow/Flutter 0.04%
Eff. arm mass 7.5 grams
Cueing Yes
VTF 0.5 to 3 grams
Antiskating 0.05 to 0.30 grams
Resonance 10 Hz (with Stanton 681EEE Cartridge)
Track. error 0.18 degree/cm radius
Headshell Removable
Features Automatic Pitch Control (APC) corrects turntable speed with change in head on turntable

TD-115C

Price \$450
Dimensions 5 1/8H x 17 1/2W x 14 1/4D
Weight 15 lbs. 8 oz.
Type Semiautomatic
Speeds 33 1/3; 45
Speed adj. ±6%
Motor type DC
Drive type Belt
Rumble -68 dB (weighted per DIN standard)
Wow/Flutter 0.05% (weighted per DIN standard)
Eff. arm mass 7.5 grams
Cueing Yes
VTF 0.5 to 3.0 grams
Antiskating 0.05 to 0.30 grams
Resonance 10 Hz (with Stanton 681EEE Cartridge)
Track. error 0.18 degree/cm in radius
Headshell Removable
Features Automatic Pitch Control (APC) corrects turntable speed with change in lquad on turntable

TD-104

Price	\$285
Dimensions	5H x 17 $\frac{1}{2}$ W x 15 $\frac{1}{2}$ D
Weight	12 lbs.
Type	Manual
Speeds	33 1/3; 45
Speed adj.	$\pm 6\%$
Motor type	DC
Drive type	Belt
Rumble	-65 dB (weighted per DIN standard)
Wow/Flutter	0.05% (weighted per DIN standard)
Eff. arm mass	7.5 grams
Cueing	Yes
VTF	0.5 to 3.0 grams
Antiskating	0.05 to 0.30 grams
Resonance	10 Hz (with Stanton 681EEE cartridge)
Track. error	0.18 degree/cm in radius
Headshell	Removable
Features	Sensor touch button control

Models also available

TD-126B MK III, \$675 (tonearm not included); TD-110, \$360; TD-105, \$350; TD-160B MK II, \$295 (tonearm not included)

TOSHIBA

Toshiba America, Inc.
280 Park Ave.
New York, N.Y. 10017

SR-F770

Price	\$199.95
Dimensions	5 9/10H x 17 3/5W x 13 9/10D
Weight	16 lbs. 2 oz.
Type	Fully automatic
Speeds	33 1/3; 45
Speed adj.	$\pm 3\%$
Motor type	DC servo
Drive type	Direct
Rumble	-70 dB
Wow/Flutter	0.026%
Cueing	Yes

SR-F451

Price	\$149.95
Dimensions	5 $\frac{1}{2}$ H x 16 3/5W x 14 1/10D
Weight	12 lbs. 2 oz.
Type	Fully automatic
Speeds	33 1/3; 45
Speed adj.	$\pm 3\%$
Motor type	DC servo
Drive type	Belt
Rumble	-65 dB

SR-A272

Price	\$144.95
Dimensions	5 7/10H x 17 3/5W x 14 1/10D
Weight	13 lbs. 3 oz.
Type	Semiautomatic
Speeds	33 1/3; 45
Motor type	Four-pole
Drive type	Belt
Rumble	-65 dB
Cueing	Yes

Models also available

SR-FX70, \$299.95; SR-F452, \$179.95; SR-F450, \$149.95; SR-A270, \$114.95

TRANSCRIBER

Hortley Products Corp.
620 Island Road
Ramsey, N.J. 07446

Transcriber

Price	\$799
Dimensions	6 $\frac{3}{4}$ H x 21 $\frac{1}{4}$ W x 14 $\frac{3}{8}$ D
Weight	37 lbs.
Type	Manual
Speeds	33 1/3; 45
Speed adj.	None
Motor type	DC servo
Drive type	Belt
Wow/Flutter	0.05%
Eff. arm mass	13.4 grams
Cueing	Yes
VTF	0.1 to 0.5 grams
Track. error	0.1 degree
Headshell	Removable
Features	With Ortofon cartridge; transversal moving platter; all glass housing

VISONIK HI FI

Visonik of America
701 Heinze Ave.
Berkeley, Calif. 94710

VT-9300

Price	\$400
Dimensions	5 $\frac{1}{2}$ H x 17 $\frac{3}{4}$ W x 14 $\frac{3}{8}$ D
Weight	23 lbs.
Type	Fully automatic
Speeds	33 1/3; 45
Motor type	Quartz-locked servo
Drive type	Direct
Rumble	-75 dB (weighted per DIN standard)
Wow/Flutter	4% (weighted per DIN standard)
Cueing	Yes
VTF	0 to 2.5 grams
Antiskating	0 to 2.5 grams
Track. error	0.016 degrees
Headshell	Removable
Features	Low mass straight tonearm

VT-7300

Price	\$250
Dimensions	5 $\frac{1}{2}$ H x 17 $\frac{3}{4}$ W x 14 $\frac{3}{8}$ D
Weight	17 lbs. 9 oz.
Type	Semiautomatic
Speeds	33 1/3; 45
Speed adj.	$\pm 4\%$
Motor type	DC servo
Drive type	Belt
Rumble	-68 dB (weighted per DIN standard)
Wow/Flutter	0.06% (weighted per DIN standard)
Cueing	Yes
VTF	0 to 3 grams
Antiskating	0 to 3 grams
Track. error	0.016 degree
Headshell	Removable
Features	Low mass straight tonearm

VT-3300

Price	\$165
Dimensions	5 $\frac{1}{2}$ H x 17 $\frac{3}{4}$ W x 14 $\frac{3}{8}$ D
Weight	14 lbs. 6 oz.
Type	Semiautomatic
Speeds	33 1/3; 45
Motor type	Hysteresis synchronous
Drive type	Belt
Rumble	-65 dB (weighted per DIN standard)
Wow/Flutter	.09% (weighted per DIN standard)
Cueing	Yes
VTF	0 to 3 grams
Antiskating	0 to 3 grams
Track. error	0.016 degree
Headshell	Removable
Features	Low mass straight tonearm

Models also available

VT-8300, \$300; VT-5300, \$215

YAMAHA

Yamaha International Corp.
6600 Orangethorpe Ave.
Buena Park, Calif. 90620

YP-D10

Price	\$670
Dimensions	6 $\frac{3}{4}$ H x 18 $\frac{1}{2}$ W x 14 $\frac{1}{8}$ D
Weight	35 lbs.
Type	Semiautomatic
Speeds	33 1/3; 45
Speed adj.	$\pm 3\%$
Motor type	12-pole 24-slot Hall-effect DC servo
Drive type	Direct
Wow/Flutter	0.03%
Cueing	Oil damped
Headshell	Removable
Features	Double FG/quartz PLL servosystems; opto-electrical Silent Ending System SM

YP-D71

Price	\$330
Dimensions	6 1/10H x 18 $\frac{1}{2}$ W x 14 1/3D
Weight	24 lbs. 4 oz.
Type	Semiautomatic
Speeds	33 1/3; 45
Motor type	Coreless quartz-locked Hall
Drive type	Direct
Wow/Flutter	0.025% (weighted per WRMS standard); $\pm 0.035\%$ peak (weighted per IEC 98A)
Cueing	Yes
Antiskating	Yes
Track. error	+2 degrees, 30 min; -1 degree
Headshell	Removable
Features	High sensitivity gimbal support tonearm; opto-electronic auto stop mechanism

YP-D4

Price	\$230
Dimensions	5 $\frac{1}{2}$ H x 17 $\frac{1}{2}$ W x 14 3/16D
Weight	17 lbs. 10 oz.
Type	Semiautomatic
Speeds	33 1/3; 45
Speed adj.	$\pm 4\%$
Motor type	Coreless Hall motor
Drive type	Direct
Wow/Flutter	$\pm 0.055\%$ (weighted per IEC 98A standard)
Cueing	Yes
VTF	0 to 3 grams
Antiskating	Yes
Resonance	-10 Hz
Headshell	Removable

YP-B2

Price	\$140
Dimensions	5 $\frac{1}{2}$ H x 17 $\frac{1}{2}$ W x 14 $\frac{1}{4}$ D
Weight	13 lbs. 3 oz.
Type	Semiautomatic
Speeds	33 1/3; 45
Motor type	4-pole synchronous
Drive type	Belt
Wow/Flutter	0.08% (weighted per A standard)
Cueing	Yes
VTF	0.5 to 3 grams
Antiskating	0.5 to 3 grams
Headshell	Removable
Features	Auto return; antiskate dial; S-shaped tonearm

Models also available

YP-D8, \$440; YP-B4, \$180

A Note on Prices

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

Tape Equipment

Open-Reel Recorders

AKAI

Akai America, Ltd.
2139 E. Del Amo Blvd.
P.O. Box 6010
Compton, Calif. 90224

PRO-1000

Price \$1,995
Reel size 10½"
Format 2, 4-track/2-channel playback; 2-track/2-channel recording
Heads 4
Speeds 15; 7½; 3¾
Flutter 0.025% (WRMS) (15); 0.04% (WRMS) (7½); 0.08% (WRMS) (3¾)

Fast-forward 120 sec (1,800')
Rewind 120 sec (1,800')
Noise red. None
Input sens. 70 mV (line); 0.3 mV (mic)
Output level 775 mV (line); 300 mV (mixer)
Impedance 100 ohms (line); less than 1K ohms (mixer)

Min. load 10K ohms (line); 20K ohms (mixer)
Erasure 70 dB (1 kHz)
Meters 2 VU; peak and bias reading -40 dB to +5 dB

Features Servomotor; direct capstan drive; double capstan; pan-pot mixing

Tape #1 Scotch 206
R/P resp. 50 Hz to 20 kHz, ±1 dB (15) (0 VU); 40 Hz to 24 kHz, ±3 dB (7½) (0 VU); 60 Hz to 12 kHz, ±3 dB (3¾) (0 VU)

S/N 60 dB
S/N ref. lvl. DIN A
THD 1% (15); 1% (7½); 1% (3¾)
THD ref. lvl. 0 VU

GX-630DSS

Price \$1,225
Reel size 10½"
Format 4-track/4- or 2-channel
Heads 4
Speeds 7½; 3¾
Flutter 0.06% (WRMS) (7½); 0.09% (WRMS) (3¾)

Fast-forward 120 sec (2,400')
Rewind 120 sec (2,400')
Noise red. None
Input sens. 70 mV (line); 0.25 mV (mic)
Output level 775 mV
Min. load 20K ohms
Erasure 70 dB (1 kHz)
Meters 2 VU -20 dB to +5 dB
Features Direct-capstan AC servo-speed

control; 4 VU meters; quadra-sync; direct function; pitch control; remote control; 3 motors; mic/line mixing

Tape #1 Scotch 211
R/P resp. 30 Hz to 21 kHz, ±3 dB (7½); 30 Hz to 15 kHz, ±3 dB (3¾)

S/N 54 dB
S/N ref. lvl. +6 VU (DIN A)
THD 0.5% (7½)
THD ref. lvl. 0 VU

GX-270DSS

Price \$1,050
Reel size 7"
Format 4-track/4- or 2-channel
Heads 4
Speeds 7½; 3¾
Flutter 0.07% (WRMS) (7½); 0.1% (WRMS) (3¾)

Fast-forward 75 sec (1,200')
Rewind 75 sec (1,200')
Noise red. None
Input sens. 70 mV (line); 0.3 mV (mic)
Output level 775 mV

Min. load 20K ohms
Erasure 70 dB (1 kHz)
Meters 2 VU (-20 dB to +5 dB)
Features AC servo direct-capstan system; mic/line mixing; quadra-sync recording; auto reverse; logic controls; 3 motors; pitch control; direct-function; remote control

Tape #1 Scotch 211
R/P resp. 30 Hz to 21 kHz, ±3 dB (7½); 30 Hz to 15 kHz, ±3 dB (3¾)

S/N 54 dB
S/N ref. lvl. +6 VU (DIN A)
THD 1% (7½)
THD ref. lvl. 0 VU

GX-267D

Price \$850
Reel size 7"
Format 4-track/2-channel; stereo/mono
Heads 6
Speeds 7½; 3¾
Flutter 0.04% (WRMS) (7½); 0.06% (WRMS) (3¾)

Fast-forward 120 sec (2,400')
Rewind 120 sec (2,400')
Noise red. None
Input sens. 70 mV (line); 0.25 mV (mic)
Output level 775 mV

Min. load 20K ohms
Erasure 70 dB (1 Hz)
Meters 2 VU
Features Recording in two directions; 3-motor direct-capstan-drive system; record mute control; mixing; timer start

Tape #1 Akai LN-150-7
R/P resp. 30 Hz to 25 kHz, ±3 dB (7½); 30 Hz to 19 kHz, ±3 dB (3¾)

THD 0.5% (7½)
THD ref. lvl. 0 VU

GX-255

Price \$650
Reel size 7"
Format 4-track/2-channel
Heads 4 (GX)

Speeds 7½, 3¾
Flutter 0.04% at 7½ ips; 0.06% at 3¾ ips (WRMS) standard

Play resp. 30 Hz to 24 kHz, ±3 dB at 7½ ips; 30 Hz to 19 kHz, ±3 dB at 3¾ ips
Fast-forward 75 sec for (1,200')

Rewind 75 sec for (1,200')

Noise red. None
Input sens. 70 mV (line); 0.25 mV (mic); 2.0 mV
Output level 0.775 mV
Min. load 20K ohms
Separation 55 dB at 1 kHz
Erasure 70 dB at 1 kHz
Meters 2 VU; Scale (-20 dB to +5 dB)

Tape #1 Akai WR; Maxell UD
R/P resp. 30 Hz to 24 kHz, ±3 dB at 7½ ips; 30 Hz to 19 kHz, ±3 dB at 3¾ ips
S/N 61 dB at 7½ ips
S/N ref. lvl. Peak weighting curve DIN
THD 0.5% at 7½ ips; 0.5% at 3¾ ips
THD ref. lvl. 0 VU

1722-II

Price \$475
Reel size 7"
Format 4-track/2-channel; stereo/mono
Heads 2
Speeds 7½; 3¾
Flutter 0.14% (WRMS) (7½); 0.18% (WRMS) (3¾)

Fast-forward 80/100 sec (1,200')

Rewind 80/100 sec (1,200')

Noise red. None
Input sens. 150 mV (line); 0.5 mV (mic); 15 mV (DIN)
Output level 1.23V; 5W (speaker)
Impedance 30 ohms
Min. load 10K ohms
Erasure 70 dB (1 kHz)
Meters 2 VU
Features Built-in speakers; convertible P.A. system

R/P resp. 30 Hz to 21 kHz, ±3 dB (7½); 40 Hz to 15 kHz, ±3 dB (3¾)

THD 2% (7½)
THD ref. lvl. 0 VU

GRUNDIG

LAS Electronics East, Inc.
85C Saratoga Blvd.
Island Park, N.Y. 11558

TS-1000

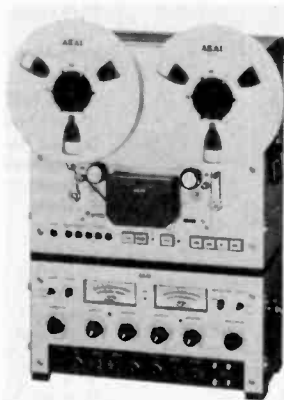
Price \$1,680

NAGRA

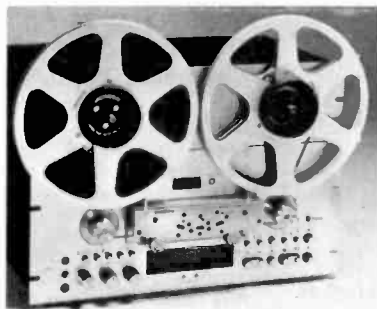
Nagra Magnetic Recorders, Inc.
19 W. 44th St.
New York, N.Y. 10036



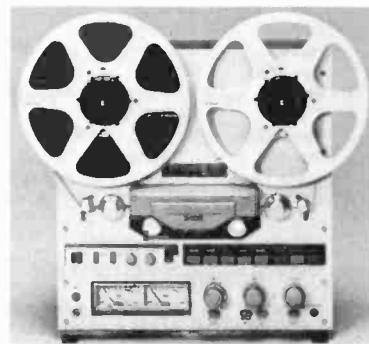
Realistic TR-3000



Akai PRO-1000



Pioneer RT-909



Teac X-10R

IV SD

Price \$5,750
Reel size 7" (10½" with QGB)
Format 2-track/2-channel
Heads 3
Speeds 15; 7½; 3¼
Flutter 0.028% (15); 0.030% (7½); 0.043% (3¼) (NAB)
Fast-forward 120 sec (900')
Rewind 120 sec (900')
Input sens. 7.8 micro-amps (line); 0.28 mV (mic)
Output level 1,000 mV
Impedance 200 ohms
Min. load 600 ohms
Separation 60 dB (1 kHz)
Erasure 83 dB (1 kHz)
Meters Peak-reading (-30 dB to +5 dB)
Features Closed-loop servo; dual-needle meter; universal mic preamp for all condenser and dynamic mics; 15 ips Nagramaster equalization
Tape #1 3M 206
R/P resp. 30 Hz to 20 kHz, ±1 dB (15); 30 Hz to 15 kHz, ±1 dB (7½); 30 Hz to 10 kHz, ±2 dB (3¼)
S/N 74.5 dB (15); 68 dB (7½)
S/N ref. lvl. 730 nWb/m (A-weighted)
THD 1% (15)
THD ref. lvl. 730 nWb/m

NEAL-FERROGRAPH
NEAL-Ferrograph
652 Glenbrook Rd.
Glenbrook, Conn. 06906

Logic 7

Price \$1,950
Reel size 10½"
Format 2,4 track/2 channel
Heads 3 super permalloy
Speeds 3¼; 7½; 15
Flutter 0.08% at 15 ips; 0.10% at 7½ ips; 0.17% at 3¼ ips
Play resp. 20 Hz to 20 kHz, ±1.5 dB at 15 ips; 20 Hz to 18 kHz, ±2 dB at 7½ ips; 30 Hz to 15 kHz, ±2 dB at 3¼ ips
Fast-forward 120 sec (1,800')
Rewind 120 sec (1,800')
Noise red. Dolby
Input sens. 50 mV-7V mV (line); 200 uV-50 mV (mic)
Output level 2V at 600 ohms; low level: 300 mV into 10K or greater; loudspeakers: up to 10 watts rms into 8 to 16 ohms
Separation 50 dB at 1 kHz (stereo); 65 dB at 1 kHz (mono)
Erasure 70 dB at 1 kHz
Meters 2 VU; -30 dB to +3 dB
Features Units available in quarter- or half-track, with or without Dolby, with or without built-in amp and loudspeakers; variable wind control; record-cancel allows user to go into or out of

record while deck is in play mode; bass and treble controls

Tape #1 TDK Audau; Ampex 456
R/P resp. 30 Hz to 20 kHz, ±2 dB at 15 ips; 30 Hz to 17 kHz, ±2 dB at 7½ ips; 40 Hz to 14 kHz, ±3 dB at 3¼ ips
S/N -60 dB at 2% distortion
THD 2% at 7½ ips
THD ref. lvl. O VU

OTARI
Otari Corp.
981 Industrial Road
San Carlos, Calif. 94070

MX-5050-8SD

Price \$4,895
Reel size 10½"
Format 4-track/8-channel
Heads 3 (permalloy)
Speeds 15; 7½
Flutter 0.06% (15); 0.08% (7½) (NAB)
Play resp. 35 Hz to 25 kHz, ±3 dB (15); 40 Hz to 20 kHz, ±3 dB (7½)
Fast-forward 90 sec (2,500')
Rewind 90 sec (2,500')
Noise red. Interface for Dolby or dbx std.
Input sens. 150 mV (line); 0.25 mV (mic)
Output level 1,250 mV
Impedance 600 ohms
Min. load 600 ohms
Separation 50 dB (1 kHz)
Erasure 70 dB (1 kHz)
Meters 2 VU (-20 to +3 dB)
Features DC servo-drive system (±7% variation); mic/line mixing; NAB VU meters; selective reproduce; separate electronics XLR connectors; motion-sense logic; all record, playback, equalization, and level controls are front- or rear-panel accessible; 1-kHz test oscillator; rack, console, or road case mounting available
Tape #1 Ampex, 3M 250, or equivalent
R/P resp. 50 Hz to 20 kHz, ±2 dB (15); 40 Hz to 20 kHz, ±3 dB (7½)
S/N 63 dB (15); 62 dB (7½) without noise reduction
S/N ref. lvl. 520 nWb/m (NAB)
THD 1% (15); 1% (7½)
THD ref. lvl. 200 nWb/m

MK-II-2

Price \$2,445
Reel size 10½"
Format 2-track/2-channel
Heads 4 (permalloy)
Speeds 15; 7½
Flutter 0.05% (15); 0.06% (7½)
Play resp. 35 Hz to 25 kHz, ±3 dB (15); 35 Hz to 18 kHz, ±2 dB (7½)
Fast-forward 90 sec (2,500')
Rewind 90 sec (2,500')
Input sens. 150 mV (line); 0.25 mV (mic)

Output level 1,250 mV
Impedance 600 ohms
Min. load 600 ohms
Separation 60 dB (1 kHz)
Erasure 70 dB (1 kHz)
Meters 2 VU (-20 dB to +3 dB)
Features Servo capstan; variable speed (±7%); selective reproduce; minutes/seconds counter; edit & cue modes; motion-sense logic; XLR connectors; separate electronics on plug-in cards; test oscillator
Tape #1 Ampex 456, 3M 250, or equivalent
R/P resp. 50 Hz to 20 kHz, ±2 dB (15); 30 Hz to 18 kHz, ±2 dB (7½)
S/N 68 dB (15); 68 dB (7½)
S/N ref. lvl. 520 nWb/m
THD 1% at 7½/15 ips at 1 kHz
THD ref. lvl. 185 nWb/m

Models also available

MX-5050-QXHD, \$2,845; MX-5050-B, \$1,945

PHILIPS
Philips High Fidelity
Laboratories
P.O. Box 2208
Fort Wayne, Ind. 46801

N-4506

Price \$690
Reel size 7"
Format 4-track/2-channel
Heads 3 (hardened permalloy)
Speeds 7½; 3¼; 1½
Flutter 0.05% (7½); 0.07% (3¼); 0.20% (1½) (WRMS)
Play resp. 35 Hz to 26 kHz, ±3 dB (7½); 35 Hz to 20 kHz, ±3 dB (3¼); 35 Hz to 11.5 kHz ±3 dB (1½)
Fast-forward 180 sec (1,800')
Rewind 180 sec (1,800')
Noise red. Dynamic Noise Limiting (DNL)
Input sens. 100 mV (line); 0.2 mV (mic)
Output level 250 mV
Meters Peak-reading (-20 dB to +3 dB)
Features Tacho-control capstan motor; 3 motors; direct-drive DC; DNL; A-B monitor; solenoid controls; headphone amp; sound-on-sound; sound-mixing; LED overload indicators; cueing; variable speed wind and rewind; adjustable outputs

Models also available

N-4504 Open-Reel Deck, \$480

PIONEER
U.S. Pioneer Electronics Corp.
75 Oxford Drive
Moonachie, N.J. 07074

RT-2044

Price \$2,010
Reel size 10½"
Format 4-track
Heads 3 (1 ferrite, 2 permalloy)
Speeds 7½; 15
Flutter 0.04% (WRMS) (15); 0.08% (WRMS) (7½)
Fast-forward 110 sec (2,400')
Rewind 110 sec (2,400')
Input sens. 34 mV (line); 0.1 mV (mic)
Output level 450 mV to 930 mV into 50K-ohm load
Separation 50 dB (1 kHz)
Meters 2 VU; peak-reading LEDs (-40 dB to +6 dB)
Features Two 6-pole inner rotor induction reel motors; one 4/8 pole hysteresis synchronous capstan multi-mixing facilities; metered playback; changeable head unit (4 ch/2 ch); bias and equalization selectors; built-in tape oscillator; remote control; logic protection
Tape #1 Scotch 206
R/P resp. 30 Hz to 28 kHz, ±3 dB (15); 40 Hz to 20 kHz, ±3 dB (7½)
S/N 55 dB (15)
S/N ref. lvl. +6 dB (NAB)
THD 0.8% (15); 1% (7½)
THD ref. lvl. 0 dB (NAB)

RT-909

Price \$895
Reel size 10½"
Format 4-track/2 channel
Heads 4 (permalloy)
Speeds 7½; 3¾
Flutter 0.04% at 7½ ips; 0.08% at 3¾ ips
Play resp. 20 Hz to 28 kHz, ±3 dB at 7½ ips
20 Hz to 18 kHz, ±3 dB at 3¾ ips
Rewind 120 sec (2,400')
Input sens. 50 mV (line); 0.316 mV (mic)
Output level 450 mV
Impedance 2.6 ohms
Erasure 60 dB
Meters 2 VU; Peak reading; (-30 dB to +8 dB)
Features FG servo DC capstan motor; 24-segment fluoroscan meter; rack-mountable design

Models also available

RT-2022, \$1,590; RT-707, \$695;
RT-701, \$595

REALISTIC

Radio Shack
1400 One Tandy Center
Ft. Worth, Tex. 76102

TR-3000

Price \$499.95
Reel size 7"
Format ¼-track/2-channel
Heads 3, (hard permalloy)
Speeds 3¾; 7½
Flutter 0.08% at 3¾ ips; 0.06% at 7½ ips; (WRMS)
Play resp. 33 Hz to 14 kHz, ±1½ dB at 3¾ ips; 33 Hz to 20 kHz, ±1½ dB at 7½ ips
Fast-forward 100 sec (1,800')
Rewind 100 sec (1,800')
Noise red. None
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 450 mV
Impedance 10K ohms
Separation 50 dB at 1 kHz
Erasure 75 dB at 1 Hz
Meters 2 VU; -20 dB to +3 dB
Features Full logic control; record mute button; 3 motors
Tape #1 Supertape Gold
R/P resp. 30 Hz to 20 kHz, ±3 dB at 3¾ ips; 30 Hz to 28 kHz, ±3 dB at 7½ ips
S/N 55 dB at 3¾ ips; 58 dB at 7½ ips
S/N ref. lvl. 185 nWb/m (A-weighted)
THD 0.9% at 3¾ ips; 0.9% at 7½ ips
THD ref. lvl. 185 nWb/m

REVOX

Studer Revox America, Inc.
1819 Broadway
Nashville, Tenn. 37203

B77

Price \$1,499
Reel size 10½"
Format 2-or 4-track/2-channel
Heads 3 (Revodur)
Speeds 3¾; 7½; 15
Flutter 0.1% (3¾); 0.08% (7½); 0.08% (15) (DIN)
Play resp. 30 Hz to 16 kHz, +2, -3 dB (3¾); 30 Hz to 20 kHz, +2, -3 dB (7½); 30 Hz to 20 kHz, ±1.5 dB (15)
Fast-forward 70 sec (1,800')
Rewind 70 sec (1,800')
Noise red. Optional Dolby B
Input sens. 40 mV (line)
Output level 1.5V
Impedance 390 ohms
Min. load 390 ohms
Separation 45 dB (1 kHz) kHz)
Erasure 75 dB (500 Hz)
Meters 2 VU; peak-reading (-20 dB to +3 dB)
Features All-digital logic control of tape motion; self-contained precision tape cutter and splicer
Tape #1 Scotch 250 or equivalent (Revox 621)
R/P resp. 30 Hz to 16 kHz, +2, -3 dB (3¾); 30 Hz to 20 kHz, +2, -3 dB (7½); 30 Hz to 20 kHz, ±1.5 dB (15)
S/N 64 dB (3¾); 67 dB (7½); 67 dB (15)
S/N ref. lvl. +6 dBm (A-weighted) at 514 nWb/m
THD 1% (3¾); 0.6% (7½); 0.4% (15)
THD ref. lvl. 257 nWb/m

SONY

Sony Industries
9 W. 57th St.
New York, N.Y. 10019

TC-766

Price \$500
Reel size 10½"
Format 2-track/2-channel
Heads 3 ferrite and ferrite (F&F)
Speeds 15; 7½
Flutter 0.018% at 15 ips
Input sens. 0.06V (line); 0.02 mV (mic)
Output level 0.775V
Impedance 100K ohms
Min. load 10K ohms
Meters VU; (-20 dB to +5 dB)
Features Three-position bias and EG; sound-on-sound; auto shutoff; closed-loop dual capstan; 4-track playback
Tape #1 Sony FeCr
R/P resp. 30 Hz to 30 kHz, ±3 dB at 15 ips
S/N 64 dB at 15 ips
S/N ref. lvl. -20 dB (IHF A-weighted)
THD 0.5% at 15 ips
THD ref. lvl. 0 dB

Models also available

Sony TC-399, \$500

TANDBERG

Tandberg of America, Inc.
Labriola Court
Armonk, N.Y. 10504

TD-20A

Price \$1,500
Reel size 10½"
Format 4-track/2-channel
Heads 3
Speeds 7½; 3¾
Flutter 0.05% (7½); 0.09% (3¾)

Play resp. 20 Hz to 26 kHz, ±2 dB (7½); 20 Hz to 18 kHz, ±2 dB (3¾)
Fast-forward 75 sec (2,500')
Rewind 75 sec (2,500')
Noise red. None
Input sens. 50 mV (line); 0.2 mV (mic)
Output level 1,500 mV
Impedance 100 ohms
Separation 64 dB (1 kHz)
Erasure 70 dB (1 kHz)
Meters 2 VU; peak-reading (-24 dB to +3 dB)
Features Four motors; Prom-Brain Logic; Sel Sync; wireless, PCM, infrared remote control
Tape #1 Maxell UDXL
R/P resp. 20 Hz to 26 kHz, ±2 dB (7½); 20 Hz to 18 kHz, ±2 dB (3¾)
S/N 67 dB (7½); 65 dB (3¾)
S/N ref. lvl. 67 dB (IEC A)
THD 2% (7½); 2% (3¾)
THD ref. lvl. 3%

TEAC

Teac Corp. of America
7733 Telegraph Rd.
Montebello, Calif. 90640

80-8

Price \$3,990
Reel size 10½"
Format ½" 8-channel multitrack
Heads 3 (2 permalloy R/P; 1 ferrite erase)
Speeds 15
Flutter 0.04% (WRMS)
Play resp. 40 Hz to 18 kHz, ±3 dB
Fast-forward 120 sec (2,500')
Rewind 120 sec (2,500')
Noise red. Optional dbx
Input sens. 100 mV (line); 0.25 mV (mic)
Output level 300 mV
Impedance 10K ohms
Min. load 5K ohms
Separation 45 dB (1 kHz)
Erasure 68 dB (1 kHz)
Meters 2 VU; peak-reading LEDs (-20 dB to +3 dB)
Features Three motors (1 belt-drive capstan); solenoid-control transport; optional remote/manual cue control
Tape #1 Ampex 456
R/P resp. 40 Hz to 18 kHz, ±3 dB
S/N 65 dB without noise reduction
S/N ref. lvl. 9 dB over 185 nWb/m (IEC A)
THD 1%
THD ref. lvl. 185 nWb/m
Tape #2 Maxell UDXL
R/P resp. 40 Hz to 18 kHz, ±3 dB
S/N 65 dB
S/N ref. lvl. 0 VU (A-weighted)
THD 0.7% (15)
THD ref. lvl. 0 VU

40-4

Price \$1,700
Reel size 10½"
Format 4-track/4-channel
Heads 3 (2 permalloy R/P; 1 ferrite erase)
Speeds 15; 7½
Flutter 0.04% (WRMS) (15)
Play resp. 40 Hz to 20 kHz, ±3 dB (15); 40 Hz to 15 kHz, ±3 dB (7½)
Fast-forward 140 sec (1,800')
Rewind 120 sec (2,500')
Noise red. Optional dbx
Input sens. 100 mV (line); 0.25 mV (mic)
Output level 300 mV
Impedance 10K ohms
Min. load 5K ohms
Separation 50 dB (1 kHz)
Erasure 68 dB (1 kHz)
Meters 2 VU; peak-reading LED (-20 dB to +3 dB)
Features Three motors (1 belt-drive capstan); solenoid-control transport; optional remote/manual cue control
Tape #1 Ampex 456
R/P resp. 40 Hz to 20 kHz, ±3 dB (15); 40 Hz

S/N to 15 kHz, ± 3 dB (7½)
 S/N ref. lvl. 65 dB (7½) without noise reduction
 THD 9 dB over 185 nWb/m (IEC A)
 THD ref. lvl. 1% (7½)
 Tape #2 185 nWb/m
 R/P resp. 40 Hz to 20 kHz, ± 3 dB (15); 40 Hz to 15 kHz, ± 3 dB (7½)
 S/N 63 dB (15); 65 dB (7½)
 S/N ref. lvl. 3% (A-weighted)
 THD 1% (15); 1% (7½)
 THD ref. lvl. 185 nWb/m

A-6100 MK II

Price \$1,400
 Reel size 10½"
 Format 2-track/2-channel
 Heads 4 (permalloy)
 Speeds 15; 7½
 Flutter 0.03% (15); 0.06% (7½)
 Play resp. 40 Hz to 22 kHz, ± 3 dB (15); 40 Hz to 18 kHz, ± 3 dB (7½)

Fast-forward 140 sec (1,800')
 Rewind 140 sec (1,800')
 Input sens. 100 mV (line); 0.25 mV (mic)
 Output level 300 mV
 Impedance 10K ohms
 Separation 50 dB (1 kHz)
 Erasure 68 dB (1 kHz)
 Meters 2 VU; peak-reading LEDs (-20 dB to +3 dB)

Features Three motors (1 belt-drive capstan); 2-mic/2-line mixing; solenoid-control transport; optional remote/manual cue control

Tape #1 Maxell UD
 R/P resp. 40 Hz to 18 kHz, ± 3 dB (7½); 40 Hz to 22 kHz, ± 3 dB (15)

S/N 67 dB without noise reduction
 S/N ref. lvl. 9 dB over 185 nWb/m (IEC A)
 THD 1% (7½)
 THD ref. lvl. 185 nWb/m
 Tape #2 TDK SA
 R/P resp. 40 Hz to 22 kHz, ± 3 dB

X-10R

Price \$1,150
 Reel size 10½"
 Format 4-track/2-channel
 Heads 6 (2 erase, 2 play, 2 record)
 Speeds 7½; 3¾
 Flutter 0.03%
 Play resp. 30 Hz to 28 kHz
 Fast-forward 100 sec (1,800')
 Rewind 100 sec (1,800')
 Noise red. dbx
 Input sens. 60 mV (line); 0.25 mV (mic)
 Output level 450 mV
 Impedance 10K ohms
 Min. load 5K ohms
 Meters 2 VU (-20 dB to +3 dB)
 Features Three DC motors; bidirectional record/play; dual capstan closed-loop transport
 Tape #1 Maxell UD
 R/P resp. 30 Hz to 28 kHz; (3¾) 40 Hz to 20 Hz, ± 3 dB, -10 VU (7½)

S/N 63 dB
 THD 0.8%

A-3300SX 2T

Price \$1,050
 Reel size 10½"
 Format 2-track/2-channel
 Heads 3 (permalloy)
 Speeds 15; 7½
 Flutter 0.04% (15); 0.06% (7½) (NAB)
 Play resp. 30 Hz to 26 kHz, ± 3 dB (15); 30 Hz to 24 kHz, ± 3 dB (7½)

Fast-forward 140 sec (1,800')
 Rewind 140 sec (1,800')
 Input sens. 100 mV (line); 0.25 mV (mic)
 Output level 300 mV
 Impedance 10K ohms
 Separation 50 dB (1 kHz)
 Erasure 65 dB (1 kHz)
 Meters 2 VU (-20 dB to +3 dB)
 Features Three motors (belt-drive capstan);

2-mic/2-line mixing; solenoid-transport control; optional remote/manual cue control

Tape #1 Maxell UD; TDK Audua; Scotch 206; Ampex 456
 R/P resp. 30 Hz to 22 kHz, ± 3 dB (15); 30 Hz to 20 kHz, ± 3 dB (7½)
 S/N 67 dB (15) without noise reduction
 S/N ref. lvl. 9 dB over 185 nWb/m (IEC)
 THD 1% (15)
 THD ref. lvl. 185 nWb/m

X-7

Price \$700
 Reel size 7"
 Format 4-track/2-channel
 Heads 3
 Speeds 7½; 3¾
 Flutter 0.03% (7½)
 Play resp. 30 Hz to 28 kHz
 Fast-forward 140 sec (1,800')
 Rewind 140 sec (1,800')
 Input sens. 60 mV (line); 0.25 mV (mic)
 Output level 450 mV
 Impedance 10K ohms
 Min. load 5K ohms
 Meters 2 VU (-20 dB to +3 dB)
 Features Three DC motors; dual capstan closed-loop transport
 Tape #1 Maxell UD
 R/P resp. 30 Hz to 28 kHz (3¾); 40 Hz to 20 kHz, ± 3 dB, -10 VU (7½)
 S/N 63 dB
 THD 0.8%

Models also available

35-2, \$1,900; A-3440, \$1,600; A-6600, \$1,575; A-2340SX, \$1,175; X-10, \$1,000; X-7R, \$800

TECHNICS

Panasonic Co. One Panasonic Way Secaucus, N.J. 07094

RS-1520

Price \$2,000
 Reel size 10½"
 Format 2-track/2-channel recording and playback; 4-track/2-channel playback
 Heads 4 (permalloy)
 Speeds 15; 7½; 3¾
 Flutter 0.018% (15); 0.03% (7½); 0.06% (3¾) (WRMS) (JIS)
 Play resp. 30 Hz to 30 kHz, ± 2 dB (15); 20 Hz to 25 kHz, ± 2 dB (7½); 20 Hz to 15 kHz, ± 3 dB (3¾)

Fast-forward 150 sec (2,500')
 Rewind 150 sec (2,500')

Input sens. 77.5 mV (line); 0.25 mV (mic)
 Output level 1.228V
 Impedance 600 ohms

Min. load 600 ohms
 Separation 50 dB (1 kHz)
 Erasure 65 dB (1 kHz)
 Meters 2 VU
 Features Three-motor, quartz-locked, "Isolated-Loop" direct drive; mic/line mixing; front panel vernier bias and EQ adjustments; 600-ohm balanced Input/output
 Tape #1 Scotch 207
 R/P resp. 28 Hz to 45 kHz, ± 3 dB (15)

S/N 68 dB
 S/N ref. lvl. +11 dB (650 nWb/m)
 THD 0.8% (15)
 THD ref. lvl. 0 VU (185 nWb/m)

RS-1700

Price \$2,000
 Reel size 10½"
 Format 4-track/2-channel
 Heads 6 (permalloy)
 Speeds 15; 7½; 3¾
 Flutter 0.018% (15); 0.03% (7½); 0.06% (3¾) (WRMS) (JIS)
 Play resp. 30 Hz to 30 kHz, ± 3 dB (15); 20 Hz to 25 kHz, ± 3 dB (7½); 20 Hz to 15 kHz, ± 3 dB (3¾)
 Fast-forward 150 sec (2,500')

Rewind 150 sec (2,500')
 Input sens. 60 mV (line); 0.25 mV (mic)
 Output level 775 mV
 Impedance 3K ohms
 Min. load 22K ohms
 Erasure 65 dB (1 kHz)
 Meters 2 VU
 Features Three-motor, quartz-locked isolated-loop; direct drive; auto reverse; tape-tension control; IC logic control
 Tape #1 Scotch 207
 R/P resp. 30 Hz to 30 kHz, ± 3 dB (15); 20 Hz to 25 kHz, ± 3 dB (7½); 20 Hz to 15 kHz, ± 3 dB (3¾)
 S/N 66 dB (15); 66 dB (7½); 64 dB (3¾)
 S/N ref. lvl. 3%
 THD 0.8% (15); 0.8% (7½); 0.8% (3¾)
 THD ref. lvl. 0 VU

RS-1506

Price \$1,500
 Reel size 10½"
 Format 4-track/2-channel
 Heads 4 (permalloy)
 Speeds 15; 7½; 3¾
 Flutter 0.018% (15); 0.03% (7½); 0.06% (3¾) (WRMS) (JIS)
 Play resp. 30 Hz to 30 kHz, ± 3 dB (15); 20 Hz to 25 kHz, ± 3 dB (7½); 20 Hz to 15 kHz, ± 3 dB (3¾)

Fast-forward 150 sec (2,500')
 Rewind 150 sec (2,500')
 Input sens. 60 mV (line); 0.25 mV (mic)
 Output level 775 mV
 Impedance 3K ohms
 Min. load 22K ohms
 Separation 50 dB
 Erasure 65 dB (1 kHz)
 Meters 2 VU
 Tape #1 Scotch 207
 R/P resp. 30 Hz to 30 kHz, ± 3 dB (15); 20 Hz to 25 kHz, ± 3 dB (7½); 20 Hz to 15 kHz, ± 3 dB (3¾)

S/N 66 dB (15); 66 dB (7½); 64 dB (3¾)
 S/N ref. lvl. 3%
 THD 0.8% (15); 0.8% (7½); 0.8% (3¾)
 THD ref. lvl. 0 VU

Models also available

RS-1500US, \$1,500

UHER

Mineroff Electronics, Inc. 946 Downing Road Valley Stream, N.Y. 11580

SG-631

Price \$1,800
 Reel size 10½"
 Format 2 or 4 track/2-channel
 Speeds 3¾; 1½
 Flutter 0.05% at 7½ ips; 0.1% at 3¾ ips; 0.2% at 1½ ips
 Play resp. 20 Hz to 25 kHz, ± 2 dB at 7½ ips; 20 Hz to 16 kHz, ± 2 dB at 3¾ ips; 20 Hz to 12.5 kHz, ± 2 dB at 1½ ips

Fast-forward 120 sec (4,200')
 Rewind 120 sec (4,200')
 Input sens. 80 mV (line); 0.1 mV (mic)
 Output level 750 mV
 Impedance 15K ohms
 Meters 2 peak reading
 Features 4-motor Omega drive system; slide and movie sync; interchangeable head assembly
 Tape #1 4000 IC
 R/P resp. 35 Hz to 20 kHz ± 2 dB at 7½ ips; 35 Hz to 16 kHz, ± 2 dB at 3¾ ips; 35 Hz to 8 kHz, ± 2 dB at 1½ ips; 35 Hz to 5 kHz, ± 2 dB at 15/16 ips

64 dB at 7½ ips; 63 dB at 3¾ ips; 60 dB at 1½ ips
 S/N CrO₂ (SA)
 S/N ref. lvl. 4400-4200 Stereo
 Tape #2 35 Hz to 20 kHz, ± 2 dB at 7½ ips; 35 Hz to 16 kHz, ± 2 dB at 3¾ ips; 35 Hz to 16 kHz, ± 2 dB at 1½ ips

Cassette Recorders

AIWA

Aiwa America, Inc.
35 Oxford Drive
Moonachie, N.J. 07074

AD-6900 II

Price \$1,000
Heads 3 (ferrite; V-cut)
Flutter 0.04
Fast-forward 65 sec (C-60)
Rewind 65 sec (C-60)
Noise red. Dolby
Input sens. 75 mV (line); 0.25 mV (mic); 0.25 mV (DIN)
Output level 410 mV
Impedance 50K ohms
Meters 2 VU; peak reading (double needle) (-20 dB to +6 dB) (VU); -40 dB to +12 dB (peak)
Features Metal-tape capability; Dolby calibration tone; wireless remote; cue and review; flat response tuning system
Tape #1 Scotch Metafine
R/P resp. 25 Hz to 18 kHz, +2, -3 dB
S/N 68 dB (w/NR), 58 dB (w/o NR)
S/N ref. lvl. 3% THD, (IEC A)

AD-6700U

Price \$750
Heads 2 (Sendust)
Flutter 0.04%
Fast-forward 65 sec (C-60)
Rewind 65 sec (C-90)
Noise red. Dolby
Input sens. 50 mV (line); 0.25 mV (mic)
Output level 410 mV
Impedance 50K ohms
Meters VU; peak reading LED
Features Standard wireless remote control; metal tape compatibility; cue and review; continuous auto repeat; 9-point peak indicator; remaining tape time meter; peak hold
Tape #1 Scotch Metafine
R/P resp. 25 Hz to 1 kHz, +2, -3 dB
S/N 65 dB (w/NR); 55 dB (w/o NR)
S/N ref. lvl. 3% THD (IEC A)

AD-L40U

Price \$490
Heads 2 (Sendust)
Flutter 0.04
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.3 mV (mic)
Output level 410 mV
Impedance 50K ohms
Meters 2VU peak reading LED (-20 dB to +10 dB)
Features Metal tape capability; 3-step tape select switch; 20 point LED optical display; LH bias fine adjustment
Tape #1 Scotch Metafine
R/P resp. 20 Hz to 17 kHz, +2, -3 dB
S/N 65 dB (w/NR), 55 dB (w/o NR)

AD-6550

Price \$450
Heads 2 (ferrite)

Flutter 0.05% (WRMS)
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.3 mV (mic); 0.1 mV (DIN)
Output level 775 mV
Impedance 50K ohms
Erasure 60 dB at 400 Hz
Meters 2-step peak-reading LEDs
Features Tape-remaining-time meter; LH bias fine adjuster; memory rewind; cue and review
Tape #1 Sony Ferrichrome
R/P resp. 30 Hz to 15 kHz, ± 3 dB
S/N 55 dB/65 dB
S/N ref. lvl. 3% THD
THD ref. lvl. 0 VU at 400 Hz

AD-6350

Price \$320
Heads 2 (ultra hard permalloy)
Flutter 0.08% (WRMS)
Fast-forward 85 sec (C-60)
Rewind 85 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.3 mV (mic)
Output level 775 mV
Impedance 50K ohms
Erasure 60 dB at 400 Hz
Meters 2-step peak-reading LEDs
Features Cue and review; record mute; LH bias fine adjuster
Tape #1 Sony Ferrichrome
R/P resp. 30 Hz to 16 kHz, ± 3 dB
S/N 55 dB/65 dB
S/N ref. lvl. 3% THD
THD ref. lvl. 0 dB at 400 Hz

AD-1260

Price \$260
Heads 2 (ultra-hard permalloy)
Flutter 0.08% (WRMS)
Fast-forward 85 sec (C-60)
Rewind 85 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.3 mV (mic); 0.1 mV (DIN)
Output level 775 mV
Impedance 50K ohms
Separation 40 dB at 1 kHz
Erasure 65 dB at 1 kHz
Meters 2 VU
Features DC oil-damped cassette ejection; independent 3-step bias and EQ (FeCr, CrO₂, LH); peak indicator; full auto stop; cue and review; slant design; LH bias fine adjustment
Tape #1 Sony Ferrichrome
R/P resp. 30 Hz to 16 kHz
S/N 62 dB (with noise reduction)
S/N ref. lvl. 3% THD

Models also available

AD-6800, \$550; AD-6600, \$490;
AD-6450, \$380; AD-M200U, \$260;
SD-L22U, \$260; AD-M100U, \$210

AKAI

Akai America, Ltd.
2139 E. Del Amo Blvd.
P.O. Box 6010
Compton, Calif. 90224

GXC-735D

Price \$500
Heads 3, Type 1 r/p GX; 2 Erase
Flutter 0.045
Fast-forward 60 seconds for C-60 (length)
Rewind 60 seconds for C-60 (length)
Noise red. Dolby
Input sens. 70 mV (line); 0.25 mV (mic); 0.25 (DIN)
Output level 410 mV

Min. load 20K ohms
Erasure 65 dB at 1 kHz
Meters VU 2; Peak reading Lamp Meter scale -20 dB to +5 dB
Features Bidirectional record/play
Tape #1 FeCr (Sony Duad)
R/P resp. 35 Hz to 16 kHz ± 3 dB
S/N 66 dB (w/NR), 56 dB (w/o NR)
S/N ref. lvl. Weighting Curve DIN A
THD 1.5%
THD ref. lvl. 0 VU
Tape #2 CrO₂m-2 μ x (SA)
R/P resp. 35 Hz to 15 kHz ± 3 dB
S/N 66 dB (w/NR), 56 dB (w/o NR)
S/N ref. lvl. Weighting Curve DIN A
THD 1.5%
THD ref. lvl. 0 VU

GX-F80

Price \$495
Heads 3, Type 1 r/p.; 1 Super GX Combo Monitoring; 1 Erase 0.035 (WRMS)
Flutter 0.035 (WRMS)
Fast-forward 60 seconds for C-60 length
Rewind 60 seconds for C-60 length
Noise red. Dolby
Input sens. 70 mV (line); 0.3 mV (mic); 2 mV (DIN)
Output level 410 mV
Min. load 20K ohms
Separation 30 dB at 1 kHz
Erasure 70 dB at 1 kHz
Meters Bar-graph; peak reading; both; Meter scale -20 dB to +8 dB
Tape #1 Metal
R/P resp. 25 Hz to 21 kHz ± 3 dB
S/N 72 dB (w/NR), above 5 kHz), 62 dB (w/o NR)
S/N ref. lvl. Peak, Weighting Curve DIN
THD 0.6%
THD ref. lvl. 0 VU
Tape #2 CrO₂ (SA)
R/P resp. 25 Hz to 17.5 kHz ± 3 dB
S/N 72 dB (w/NR), 61 dB (w/o NR)
S/N ref. lvl. 0 VU, Weighting Curve DIN
THD 0.7%
THD ref. lvl. 0 VU

CS-732D

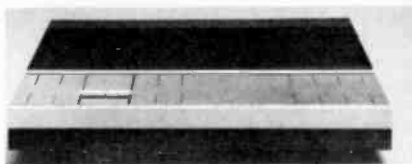
Price \$350
Heads (3RP, 2 Erase)
Flutter 0.06%
Fast-forward 90 sec (C-60) (length)
Rewind 90 sec (C-60) (length)
Noise red. Dolby
Input sens. 70 mV (line); 0.25 mV (mic); 2.0 mV (DIN)
Output level 410 mV
Min. load 20 ohms
Erasure 65 dB at 1 kHz
Meters 2 VU; peak-reading amp (-20dB to +5 dB)
Features Bidirectional record/play
Tape #1 FeCr (Sony Duad)
R/P resp. 35 Hz to 15 kHz ± 3 dB
S/N 66 dB (w/NR), 56 dB (w/o NR)
S/N ref. lvl. DIN A
THD 1.5%
THD ref. lvl. 0 VU
Tape #2 CrO₂ (SA)
R/P resp. 35 Hz to 14 kHz ± 3 dB
S/N 66 dB (w/NR), 56 dB (w/o NR)
S/N ref. lvl. Weighting Curve DIN A
THD 1.5%
THD ref. lvl. 0 VU

GX-M30

Price \$300
Heads (Supor GX Twin Field R/P; 1 erase)
Flutter 0.04 (WRMS)
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 70 mV (line); 0.3 mV (mic); 2 mV (DIN)
Output level 410 mV
Min. load 20 ohms



Akai GX-F80



B & O Beocord 5000



Dual 839RC



B.I.C. T-4M



Denon DR-250



Fisher CR-4029

Separation 30 dB at 1 kHz
Erasure 70 dB at 1 kHz
Meters Bar-graph; peak reading (with switch) (-3 dB to +3 dB)
Features Instant Program Location System (IPLS)
Tape #1 Metal
R/P resp. 30 Hz to 19 kHz ± 3 dB
S/N 71 dB (w/NR, above 5 kHz), 61 dB (w/o NR)
S/N ref. lvl. Peak (DIN)
THD 0.6%
THD ref. lvl. 0 VU
Tape #2 CrO₂ (SA)
R/P resp. 30 Hz to 16.5 kHz, ± 3 dB
S/N 70 dB (w/NR); 60 dB (w/o NR)
S/N ref. lvl. Peak (DIN)
THD 0.7%
THD ref. lvl. 0 VU

Models also available

GX-F90, \$595; GX-M50, \$375; GXC-706D, \$300

BANG & OLUFSEN
Bang & Olufsen of America
515 Busse Road
Elk Grove Village, Ill. 60007

Beocord 5000

Price \$695
Heads 2 (nitrite-hardened Sendust)
Flutter 0.1%
Play resp. 30 Hz to 15 kHz
Fast-forward 60 sec (C-60)
Rewind 60 sec (C-60)
Noise red. Dolby
Input sens. 2.2 mV (line); 0.1 mV (mic); 300 mV (aux)
Output level 940 mV
Impedance 23K ohms
Erasure 70 dB
Meters Peak-reading (-25 dB to +3 dB)
Features Automatic demagnetization; fade in/fade out; electronic controls; automatic bias
Tape #1 DIN standard CrO₂
R/P resp. 30 Hz to 15 kHz
S/N 57 dB/65 dB
Tape #2 DIN standard ferric
S/N ref. lvl. DIN A

Models also available

Beocord 1900, \$495

B.I.C.
B.I.C./Avnet
South Service Road
Westbury, N.Y. 11590

T-4M Two-Speed Deck

Price \$849.95

Heads 3 (Sendust R/E; hard ferrite play)
Flutter 0.05% (0.03% at 3¾)
Fast-forward 48 sec (C-60)
Rewind 48 sec (C-60)
Noise red. Dolby
Input sens. 200 mV (line)
Output level 2K mV
Impedance 600 ohms
Min. load 3.3K ohms
Separation 35 dB (1 kHz)
Erasure 75 dB (1 kHz)
Meters 2 peak-reading bar graph LED display (-36 to +9)

Features Metal equipped; 2 motors; dual capstan; bias trim; pitch; MPU; mic/line
Tape #1 Metafine
R/P resp. 20 Hz to 21 kHz, ± 3 dB (1¾); 20 Hz to 23 kHz, ± 3 dB (3¾)
S/N 71 dB/64 dB (3¾); 68 dB/60 dB (A-weighted) 3% THD
THD 1.2% (0.9 at 3¾)
THD ref. lvl. 0 (200 nWb/m)
Tape #2 TDK SA
R/P resp. 20 Hz to 23 kHz, ± 3 dB (3¾); 20 Hz to 21 kHz, ± 3 dB (1¾)
S/N 68/61 dB (3¾); 65/57 dB (1¾)
S/N ref. lvl. 3% THD, (A-weighted)
THD 1.0% (3¾); 1.3% (1¾)
THD ref. lvl. 0 (200 nWb/m)

T-3 Two-Speed Deck

Price \$530
Heads 3 (hard ferrite)
Flutter 0.05% (0.03% at 3¾)
Fast-forward 48 sec (C-60)
Rewind 48 sec (C-60)
Noise red. Dolby
Input sens. 200 mV (line); 30 mV (mic)
Output level 2V
Impedance 600 ohms
Min. load 3.3K ohms
Separation 35 dB (1 kHz)
Erasure 75 dB (1 kHz)
Meters Peak-reading (-40 dB to +5 dB)
Features Dual capstan; Dolby calibration; high-speed tape handling
Tape #1 TDK SA
R/P resp. 20 Hz to 20 kHz, ± 3 dB (1¾); 20 Hz to 23 kHz, ± 3 dB (3¾)
S/N 68 dB/61 dB (3¾); 65 dB/57 dB (1¾)

S/N ref. lvl. 3% THD (A-weighted)
THD 1.3%; 1.0 at 3¾
THD ref. lvl. 0 (200 nWb/m)
Tape #2 TDK AD
R/P resp. 20 Hz to 20 kHz, ± 3 dB (3¾); 20 Hz to 19 kHz ± 3 dB (1¾)
S/N 67/60 dB (3¾); 64/56 dB (1¾)
S/N ref. lvl. 3% THD, (A-weighted)
THD 1.2% 0.9% at 3¾
THD ref. lvl. 0 (200 nWb/m)

T-05

Price \$209.95

Heads 2 (hard permalloy R/P; ferrite dual gap erase)
Flutter 0.07%
Fast-forward 85 sec (C-60)
Rewind 85 seconds for C-60 (length)
Noise red. Dolby
Input sens. 200 mV (line); 30 mV (mic)
Output level 1V
Impedance 600 ohms
Min. load 3.3K ohms
Separation 35 dB at 1 kHz
Erasure 75 dB at 1 kHz
Meters Peak reading (-20 dB to +5 dB)
Features Broadband electronics; MPX filter switch
Tape #1 TDK SA
R/P resp. 30 Hz to 18 kHz, ± 3 dB
S/N 63 dB (w/NR); 55 dB (w/o NR)
S/N ref. lvl. 3% THD (A-weighted)
THD 1.7%
THD ref. lvl. 0
Tape #2 TDK AD
R/P resp. 30 Hz to 17 kHz, ± 3 dB
S/N 62 dB (w/NR); 54 dB (w/o NR)
S/N ref. lvl. 3% (A-weighted)
THD 1.5%
THD ref. lvl. 0

Models also available

CS-703D, \$200; T-2 Two-Speed Deck, \$350; T-1 Two-Speed Deck, \$299.95

BIGSTON
Bigston Corp.
85 Gordon St.
Elk Grove Village, Ill. 60007

BSD-400

Price \$249
Heads 2 (permalloy)
Flutter 0.07% (WRMS)
Play resp. 30 Hz to 13 kHz, ± 3 dB
Fast-forward 75 sec (C-60)
Rewind 75 sec (C-60)
Noise red. Dolby
Input sens. 250 mV (line); 0.2 mV (mic)
Output level 580 mV
Impedance 220 ohms
Separation 35 dB (1 kHz)
Erasure 65 dB (1 kHz)
Meters 2 VU (-20 dB to +3 dB)
Features DC with electric governor; LED peak indicator; vertical cassette slot loading; memory rewind; auto playback; cue and review; separate record and playback level controls; separate bias and equalization controls; 3-position tape selector; mic mixing; ¼" stereo headphone jack
Tape #1 TDK-SD
R/P resp. 30 Hz to 13 kHz, ± 3 dB
S/N 52 dB/58 dB
S/N ref. lvl. 0.5V
THD 1.5%

THD ref. lvl. 0.5V
 Tape #2 TDK-SA
 R/P resp. 30 Hz to 15 kHz, ± 3 dB
 S/N 52 dB/58 dB
 S/N ref. lvl. 0.5V
 THD 1.5%
 THD ref. lvl. 0.5V

CALIBRE

Calibre

1301 65th St.
 Emeryville, Calif. 94608

440

Price \$335
 Heads 2 (permalloy)
 Flutter 0.06%
 Play resp. 40 Hz to 15 kHz, ± 3 dB
 Fast-forward 85 sec (C-60)
 Rewind 85 sec (C-60)
 Noise red. Dolby B
 Input sens. 60 mV (line); 0.3 mV (mic)
 Output level 580 mV
 Impedance 1K ohms
 Separation 65 dB (1 kHz)
 Erasure 65 dB (1 kHz)
 Meters Peak-reading (-20 dB to +5 dB)
 Features LED VU meters, FM Dolby; 100 kHz bias; direct loading; memory stop; full auto shutoff
 Tape #1 TDK AD
 R/P resp. 30 Hz to 15.5 kHz, ± 3 dB
 S/N 52 dB/62 dB
 S/N ref. lvl. Dolby
 THD 1.5%
 THD ref. lvl. Dolby
 Tape #2 TDK SA
 R/P resp. 30 Hz to 15.5 kHz, ± 3 dB
 S/N 52 dB/62 dB
 S/N ref. lvl. Dolby
 THD 1.5%
 THD ref. lvl. Dolby

CONCEPT

Concept

1601 West Glenlake
 Itasca, Ill. 60743

ELC

Price \$525
 Heads 2 (Sendust alloy)
 Flutter 0.04%
 Play resp. 30 Hz to 16 kHz, ± 3 dB
 Fast-forward 75 sec (C-60)
 Rewind 75 sec (C-60)
 Noise red. Dolby
 Input sens. 60 mV (line); 0.27 mV (mic)
 Output level 1,000 mV
 Impedance 47K ohms
 Separation 50 dB (1 kHz)
 Meters 2 VU (-20 dB to +4 dB)
 Features Computer logic control; 2-motor drive; auto repeat; limiter; peak-reading LED
 Tape #1 Maxell UDXL-I
 R/P resp. 30 Hz to 16 kHz, ± 3 dB
 S/N 52 dB/62 dB
 S/N ref. lvl. 0 VU
 THD 1%
 THD ref. lvl. +3 dB
 Tape #2 TDK SA

DENON

American Audioport, Inc.
 1407 North Providence Road
 Columbia, Miss. 65201

DR-250

Price \$430
 Heads 2 (Sendust R/P; 1 double gap ferrite erase)
 Flutter 0.05% (WRMS)
 Play resp. 35 Hz to 15 kHz, ± 3 dB
 Fast-forward 70 sec (C-60)
 Rewind 70 sec (C-60)

Input sens. 69 mV (line); 0.3 mV (mic)
 Output level 0.416 mV
 Min. load 10K ohms
 Separation 35 dB at 1 kHz
 Erasure 65 dB at 1 kHz
 Meters 2 VU; 5 peak reading LEDs (-20 dB to +5 dB)
 Features 4-position tape selector; metal-ready; servo-controlled motor; auto repeat; auto memory; front-panel bias
 Tape #1 Denon DX-5
 R/P resp. 35 Hz to 15 kHz, ± 3 dB
 S/N 62 dB (w/NR)
 S/N ref. lvl. +3 dB (A-weighted)
 THD 3%
 THD ref. lvl. +3 dB
 Tape #2 Denon DX-3
 R/P resp. 35 Hz to 14 kHz, ± 3 dB
 S/N 62 dB (w/NR)
 S/N ref. lvl. +3 dB, (A-weighted)
 THD 3%
 THD ref. lvl. 3 dB

Models also available

DR-750, \$1,200

DUAL

United Audio Products
 120 S. Columbus Ave.
 Mt. Vernon, N.Y. 10553

C-839RC

Price \$850
 Heads 2 (Sendust)
 Flutter 0.03%
 Play resp. 20 Hz to 20 kHz, ± 3 dB
 Fast-forward 65 sec (C-60)
 Rewind 65 seconds for C-60 (length)
 Noise red. Dolby
 Input sens. 30 mV (line); 0.2 mV (mic)
 Output level 580 mV
 Min. load 2k ohms
 Separation 40 dB (1 kHz)
 Erasure 70 dB at 1 kHz
 Meters 2 VU; peak reading; (-20 dB to +5 dB)
 Features Auto reverse; optional remote control; direct load and lock system (DLLS) 6-position bias/eg; LED EQ indicators; metal ready; solenoid operation
 Tape #1 Metal
 R/P resp. 20 Hz to 20 kHz, ± 3 dB
 S/N 69 dB (w/NR)
 S/N ref. lvl. 3% THD (DIN B)
 THD 0.4%
 THD ref. lvl. 0 dB (200 nWb/m)
 Tape #2 Ferrichrome
 R/P resp. 20 Hz to 19 kHz, ± 3 dB
 S/N 69 dB (w/NR)
 S/N ref. lvl. 3% THD (DIN B)
 THD 0.4%
 THD ref. lvl. 0 dB

C-830

Price \$499.95
 Heads 3 (Sendust)
 Flutter 0.035%
 Play resp. 20 Hz to 20 kHz, ± 3 dB
 Fast-forward 65 sec (C-60)
 Rewind 65 sec (C-60)
 Noise red. Dolby
 Input sens. 30 mV (line); 0.2 mV (mic)
 Output level 580 mV
 Min. load 2K ohms
 Separation 40 dB (1 kHz)
 Erasure 70 dB at 1 kHz
 Meters Peak reading (-20 dB to +5 dB)
 Features DLLS/metal ready; LED indicator; six-position bias/EQ
 Tape #1 Metal
 R/P resp. 20 Hz to 20 kHz, ± 3 dB
 S/N 69 dB (w/NR)

S/N ref. lvl. 3% THD (DIN B)
 THD 0.4%
 THD ref. lvl. 200 nWb/m (0 dB)
 Tape #2 Ferrichrome
 R/P resp. 20 Hz to 19 kHz, ± 3 dB
 S/N 69 dB (w/NR)
 S/N ref. lvl. 3% THD (DIN B)
 THD 0.4%
 THD ref. lvl. 0 dB

Models also available

C-820, \$419.95; C-810, \$329.95

EUMIG

Eumig (U.S.A.) Inc.
 Lake Success Business Park
 255 Community Drive
 Great Neck, N.Y. 11025

FL-1000

Price \$1,550
 Heads 3
 Flutter 0.035% (WRMS)
 Play resp. 20 Hz to 20 kHz, ± 3 dB
 Fast-forward 33 sec (C-60)
 Rewind 33 sec (C-60)
 Noise red. Dolby
 Output level 750 mV
 Meters Peak-reading (-20 dB to +8 dB)
 Features Also has -6 dB meter sensitivity for higher allowable peaks of metal tape
 Tape #1 Metal
 R/P resp. 20 Hz to 20 kHz, ± 3 dB
 S/N 72 dB (w/NR); 64 (w/o NR)
 S/N ref. lvl. 3%, (A-weighted)
 Tape #2 TDK SA
 R/P resp. 20 Hz to 20 kHz, ± 3 dB
 S/N 68 dB (w/NR); 60 dB (w/o NR)
 S/N ref. lvl. 3%, (A-weighted)

Models also available

Metropolitan CCD, \$1,300

FISHER

Fisher Corp.
 21314 Lassen St.
 Chatsworth, Calif. 91311

CR-5150

Price \$700
 Heads 3 (ferrite)
 Flutter 0.04%
 Play resp. 30 Hz to 18 kHz, ± 3 dB
 Fast-forward 84 sec (C-60)
 Rewind 84 sec (C-60)
 Noise red. Dolby
 Input sens. 100 mV (line); 0.2 mV (mic); FM Dolby
 Output level 1V
 Impedance 5K ohms
 Min. load 20K ohms
 Separation 40 dB (1 kHz)
 Erasure 70 dB (1 kHz)
 Meters 2 VU; 2 peak-reading LEDs (-20 dB to +5 dB)
 Features Full-function infrared wireless remote control; electronic digital LED tape counter with timer; double Dolby; FM MPX filter; DC servo capstan motor and separate reel-drive motor; tape/source monitoring
 Tape #1 BASF PRO II
 R/P resp. 30 Hz to 18 kHz, ± 3 dB
 S/N 55 dB/64 dB
 S/N ref. lvl. +3 VU (CCIR) (ARM)
 THD 1.4%
 THD ref. lvl. 0 VU
 Tape #2 BASF PRO III or Sony FeCr
 R/P resp. 30 Hz to 15 kHz, ± 3 dB

S/N 55 dB/64 dB
S/N ref. lvl. +3 VU (CCIR) (ARM)

CR-4029 Two-Speed Deck

Price \$500
Heads 3 (VHT/Sendust)
Flutter 0.06% (1%); 0.05% (3%)
Fast-forward 120 sec (C-60)
Rewind 120 sec (C-60)
Noise red. Dolby
Input sens. 100 mV (line); 2 mV (mic)
Output level 1V
Impedance 5K ohms
Min. load 22K ohms
Separation 45 dB at 1 kHz
Erasure 70 dB at 1 kHz
Meters 2 VU; peak reading LEDs (-20 dB to +5 dB)

Features Two-speed operation; metal tape capability

Tape #1 FeO₃
R/P resp. 30 Hz to 14 kHz, ±3 dB (1%); 30 Hz to 20 kHz, ±3 dB (3%)

S/N 62 dB (w/NR); 52 dB (w/o NR)
S/N ref. lvl. +3 VU (CCIR)(ARM)
THD 1.5% (1%); 1.1% (3%)

THD ref. lvl. 0 VU
Tape #2 Metal
R/P resp. 30 Hz to 18 kHz, ±3 dB (1%); 30 Hz to 25 kHz, ±3 dB (3%)

S/N 62 dB (w/NR); 52 dB (w/o NR)
S/N ref. lvl. +3 VU (CCIR)(ARM)
THD 1.5% (1%); 1.2% (3%)
THD ref. lvl. 0 VU

CR-5115

Price \$280
Heads 3 (ferrite)
Flutter 0.07% (WRMS)
Play resp. 30 Hz to 16 kHz, ±3 dB
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 100 mV (line); 0.2 mV (mic)
Output level 1V
Impedance 5K ohms
Min. load 20K ohms
Separation 38 dB (1 kHz)
Erasure 70 dB (1 kHz)
Meters 2 VU (-20 dB to +5 dB)
Features Capstan; DC servo; monitor switch; FM Dolby circuitry; switchable limiter

Tape #1 CrO₂
R/P resp. 30 Hz to 16 kHz, ±3 dB
S/N 52 dB/60 dB (CCIR) (ARM)

S/N ref. lvl. +3 VU
THD 1.5%
THD ref. lvl. 0 VU

Tape #2 BASF PRO III or Sony FeCr
R/P resp. 30 Hz to 14 kHz, ±3 dB
S/N 52 dB/60 dB
S/N ref. lvl. +3 VU, (CCIR) (ARM)

CR-4016 Two-Speed Deck

Price \$250
Heads 2 (super permalloy; ferrite)
Flutter 0.1% (1%); 0.09% (3%)
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 100 mV (line); 0.2 mV (mic)
Output level 100 mV
Impedance 5K ohms
Min. load 22K ohms
Separation 40 dB at 1 kHz
Erasure 70 dB at 1 kHz
Meters VU (-20 dB to +6 dB)
Features Two-speed operation
Tape #1 FeO₃
R/P resp. 40 Hz to 13 kHz, ±3 dB (1%); 40 Hz to 18 kHz, ±3 dB (3%)

S/N 60 dB (w/NR); 50 dB (w/o NR)
S/N ref. lvl. +3 VU (CCIR)(ARM)
THD 2.2% (1%); 1.9% (3%)
THD ref. lvl. 0 VU

Tape #2 CrO₂
R/P resp. 40 Hz to 14 kHz (1%); 40 Hz to 19 kHz (3%)

S/N 60 dB (w/NR); 50 dB (w/o NR)
S/N ref. lvl. +3 VU (CCIR)(ARM)
THD 2.2% (1%); 1.9% (3%)
THD ref. lvl. 0 VU

CD-4015

Price \$150
Heads 2 (1 ferrite; 1 mu-metal)
Flutter 0.09% (WRMS)
Play resp. 40 Hz to 13 kHz, ±3 dB
Fast-forward 100 sec (C-60)
Rewind 100 sec (C-60)
Noise red. Dolby

Input sens. 100 mV (line); 0.2 mV (mic)
Output level 1V at 0 VU
Impedance 5K ohms
Min. load 20K ohms

Separation 35 dB (1 kHz)
Erasure 70 dB (1 kHz)
Meters 2 VU μ mnd \times 20 dB to +5 dB)

Features Tape selection and separate mic/line preamps
Tape #1 BASF PRO II
R/P resp. 40 Hz to 13 kHz, ±3 dB

S/N 50 dB/56 dB
S/N ref. lvl. +3 VU (CCIR)(ARM)
THD 1.8%
THD ref. lvl. 0 VU

Tape #2 BASF PRO I, Maxell UDXL-I, TDK AD
R/P resp. 40 Hz to 11 kHz
S/N 50 dB/56 dB

S/N ref. lvl. +3 VU (CCIR)(ARM)

Models also available

CR-5125, \$500; CR-5120, \$350;
CR-4031 Two-Speed Deck, \$350;
CR-4027 Two-Speed Deck, \$300;
CR-4025, \$200; CR-4013, \$169.95

HARMAN KARDON

Harman Kardon
55 Ames Court
Plainview, N.Y. 11803

HK-3500

Price \$549
Heads 3 (hard permalloy)
Flutter 0.05% (WRMS)
Play resp. 20 Hz to 17.5 kHz, ±3 dB
Fast-forward 60 sec (C-60)
Rewind 60 seconds for C-60 (cassette length)

Noise red. Dolby
Input sens. 50 mV (low level); 0.5 mV (mic); 200 mV (high level)

Output level 1.5V
Impedance 1K ohms
Min. load 5K ohms
Separation 35 dB at (1 kHz)

Erasure 63 dB at 1 kHz
Meters Peak reading; (-40 dB to +6 dB)
Features Tape monitoring; Dolby record and playback calibration; separate line and mic level controls; level indicator markers

Tape #1 Maxell UDXL-1
R/P resp. 20 Hz to 17.5 kHz, ±3 dB
S/N 55 dB/63 dB

S/N ref. lvl. 3% THD (IHF A-weighted)
THD 1.3%
THD ref. lvl. 3 dB below Dolby level

Tape #2 Maxell UDXL-II
R/P resp. 20 Hz to 17.5 kHz, ±3 dB
S/N 57 dB/65 dB

S/N ref. lvl. 3% THD (IHF A-weighted)
THD 1.3%
THD ref. lvl. 3 dB below Dolby level

HK-2000

Price \$479
Heads 2 (permalloy)
Flutter 0.07% (WRMS)
Play resp. 20 Hz to 16 kHz, ±3 dB
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.2 mV (mic); 200 mV (high-level line)

Output level 1.35K mV
Separation 34 dB (1 kHz)
Erasure 60 dB (1 kHz)

Meters Peak-reading (-30 to +3 dB)
Features DC servomotor; mic/line mixing with independent level controls; MPX and infra-sonic filters

Tape #1 Maxell UD
R/P resp. 25 Hz to 17 kHz, ±3 dB
S/N 55 dB/62 dB

S/N ref. lvl. +5 VU
THD 3%
THD ref. lvl. +5 VU

Tape #2 Maxell CR
R/P resp. 22 Hz to 18 kHz, ±3 dB
S/N 52 dB/59 dB

S/N ref. lvl. +2 VU
THD 3%
THD ref. lvl. +2 VU

Models also available

HK-2500, \$319; HK-1500, \$249

HITACHI

Hitachi Sales Corp. of America
401 W. Artesia Blvd.
Compton, Calif. 90277

D-5500

Price \$1,200
Heads 3 (ferrite)
Flutter 0.028%
Play resp. 30 Hz to 20 kHz, ±3 dB
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby (dual)
Input sens. 60 mV (line); 0.35 mV (mic)

Output level 550 mV
Impedance 50K ohms
Min. load 50K ohms

Separation 70 dB (1 kHz)
Erasure 65 dB (1 kHz)
Meters 2 VU; peak-reading -20 dB to +7 dB)

Features ATRS (Automatic Tape Response System); full function wireless remote; MPU memory circuits

Tape #1 Hitachi UDEX
R/P resp. 30 Hz to 20 kHz, ±3 dB
S/N 60 dB/68 dB

S/N ref. lvl. DIN A
THD ref. lvl. 3 VU

Tape #2 Hitachi UDER
R/P resp. 30 Hz to 18 kHz ±3 dB
S/N 60 dB/68 dB

S/N ref. lvl. DIN A
THD ref. lvl. 3 VU

D-777

Price \$449.95
Heads 2 (permalloy)
Flutter 0.06%
Fast-forward 100 sec (C-60)
Rewind 100 sec (C-60)
Input sens. 80 mV (line); 0.3 mV (mic)

Output level 500 mV
Impedance 50K ohms
Erasure 65 dB

Meters VU
Features Auto reverse; bias adjustment
Tape #1 Normal

R/P resp. 30 Hz to 14 kHz, ± 3 dB
 S/N 62 dB (w/NR); 54 dB (w/o NR)
 Tape #2 CrO₂
 R/P resp. 30 Hz to 15 kHz, ± 3 dB
 S/N 62 dB (w/NR) 54 dB (w/o NR)

D-75S

Price \$380
 Heads 2 (Sendust)
 Flutter 0.04%
 Fast-forward 90 sec (C-60)
 Rewind 90 sec (C-60)
 Input sens. 60 mV (line); 0.30 mV (mic)
 Output level 500 mV
 Impedance 50K ohms
 Erasure 65 dB at 1 kHz
 Meters Fluorescent meters
 Features Metal capable; full logic
 Tape #1 Normal
 R/P resp. 30 Hz to 15 kHz
 S/N 66 dB (w/NR); 58 dB (w/o NR)
 S/N ref. lvl. A-weighted
 THD ref. lvl. 3%
 Tape #2 CrO₂
 R/P resp. 30 Hz to 16 kHz
 S/N 66 dB (w/NR); 58 dB (w/o NR)
 S/N ref. lvl. A-weighted
 THD ref. lvl. 3%

D-230

Price \$180
 Heads 2 (permalloy)
 Flutter 0.09%
 Play resp. 30 Hz to 14 kHz, ± 3 dB
 Fast-forward 100 sec (C-60)
 Rewind 100 sec (C-60)
 Noise red. Dolby
 Input sens. 60 mV (line); 250 mV (mic)
 Output level 500 mV
 Impedance 50K ohms
 Min. load 50K ohms
 Separation 60 dB (1 kHz)
 Erasure 65 dB (1 kHz)
 Meters 2 VU (-20 dB to +3 dB)
 Features Electrically controlled DC motor; output-level control
 Tape #1 Hitachi UDEX
 R/P resp. 30 Hz to 14 kHz, ± 3 dB
 S/N 53 dB/58 dB
 S/N ref. lvl. 0 VU
 THD 2%
 THD ref. lvl. 0 VU (1 kHz)
 Tape #2 Hitachi UDER
 R/P resp. 30 Hz to 12.5 kHz, ± 3 dB
 S/N 53 dB/58 dB
 S/N ref. lvl. 0 VU
 THD 2%
 THD ref. lvl. 0 VU (1 kHz)

Models also available

D-980, \$550; D-555, N/A; D-850, \$400; D-40S, \$229.95

JVC

JVC America, Inc.
 58-75 Queens Midtown
 Expressway
 Maspeth, N.Y. 11378

KD-A8

Price \$750
 Heads 2 (1 X-cut SAR/P, 1 2-gap SA erase)
 Flutter 0.035% (WRMS)
 Fast-forward 85 sec (C-60)
 Rewind 85 sec (C-60)
 Input sens. 80 mV (line); 0.2 mV (mic)
 Output level 300 mV
 Impedance 3 to 8K ohms
 Separation 35 dB at 1 kHz
 Meters 2 VU; 5 peak-reading LEDs
 Features Computer tuning for bias/EQ/sensitivity
 Tape #1 Metal
 R/P resp. 25 Hz to 17 kHz, ± 3 dB

S/N 70 dB (w/NR); 60 dB (w/o NR)
 THD 0.4%
 Tape #2 SA chrome
 R/P resp. 25 Hz to 17 kHz, ± 3 dB

KD-85

Price \$530
 Heads 2 (1 SA R/P; 1 double-gap ferrite erase)
 Flutter 0.04% (WRMS)
 Play resp. 30 Hz to 18 kHz, ± 3 dB
 Fast-forward 85 sec (C-60)
 Rewind 85 sec (C-60)
 Noise red. ANRS; Super ANRS
 Input sens. 80 mV (line); 0.2 mV (mic); 0.17 mV (DIN)
 Output level 500 mV
 Impedance 3.3K ohms
 Separation 35 dB (1 kHz)
 Meters 2 VU (-20 dB to +5 dB); Spectro Peak (25 peak-reading LEDs)
 Features 2-motor full-logic solenoid control
 Tape #1 TDK SA
 R/P resp. 30 Hz to 18 kHz, ± 3 dB
 S/N 56 dB/66 dB
 THD 0.4%
 THD ref. lvl. 0 VU (K3)
 Tape #2 Maxell UD
 R/P resp. 30 Hz to 16 kHz, ± 3 dB
 S/N 56 dB/66 dB
 THD 0.4%
 THD ref. lvl. 0 VU (K3)

KD-1636-II

Price \$400
 Heads 2 (1 SA R/P; 1 double-gap ferrite erase)
 Flutter 0.08% (WRMS)
 Play resp. 30 Hz to 16 kHz, ± 3 dB
 Fast-forward 90 sec (C-60)
 Rewind 90 sec (C-60)
 Noise red. ANRS; Super ANRS
 Input sens. 80 mV (line); 0.14 mV (mic); 0.12 mV (DIN)
 Output level 500 mV
 Impedance 2.5K ohms
 Separation 35 dB (1 kHz)
 Meters 2 VU (-20 dB to +5 dB); tri-color peak indicator
 Features Built-in monitor speaker with volume control
 Tape #1 TDK SA
 R/P resp. 40 Hz to 16 kHz, ± 3 dB
 S/N 57 dB/67 dB
 THD 0.5%
 THD ref. lvl. 0 VU (K3)
 Tape #2 Maxell UD
 R/P resp. 30 Hz to 15 kHz, ± 3 dB
 S/N 57 dB/67 dB
 THD 0.5%
 THD ref. lvl. 0 VU (K3)

KD-1770-II

Price \$380
 Heads 2 (1 SA R/P; 1 double-gap ferrite erase)
 Flutter 0.05% (WRMS)
 Play resp. 30 Hz to 16 kHz, ± 3 dB
 Fast-forward 75 sec (C-60)
 Rewind 75 sec (C-60)
 Noise red. ANRS; Super ANRS
 Input sens. 80 mV (line); 0.2 mV (mic); 0.17 mV (DIN)
 Output level 500 mV
 Impedance 6.8K ohms
 Separation 35 dB (1 kHz)
 Meters 2 VU; 2 sets of 5 peak-reading LEDs
 Features Timer recording; memory stop
 Tape #1 TDK SA
 R/P resp. 30 Hz to 16 kHz, ± 3 dB
 THD 0.5%
 THD ref. lvl. 0 VU (K3)
 Tape #2 Maxell UD
 R/P resp. 30 Hz to 16 kHz, ± 3 dB
 THD 0.5%
 THD ref. lvl. 0 VU (K3)

KD-A1

Price \$180
 Heads 2 (1 Cronios R/P; 1 dual-gap ferrite erase)
 Flutter 0.08% (WRMS)
 Play resp. 40 Hz to 15 kHz, ± 3 dB
 Fast-forward 80 sec (C-60)
 Rewind 80 sec (C-60)
 Noise red. Dolby
 Input sens. 80 mV (line); 0.2 mV (mic); 0.1 (DIN)
 Output level 410 mV
 Impedance 3K ohms
 Separation 35 dB (1 kHz)
 Erasure 65 dB (1 kHz)
 Meters 2 VU; 5 peak-reading LEDs (-20 dB to +5 dB)
 Tape #1 TDK SA
 R/P resp. 40 Hz to 15 kHz, ± 3 dB
 S/N 57 dB/67 dB
 THD 0.5%
 THD ref. lvl. K3:0 VU
 Tape #2 Maxell UD
 R/P resp. 40 Hz to 14 kHz, ± 3 dB
 S/N 57 dB/67 dB
 THD 0.5%
 THD ref. lvl. K3:0 VU

Models also available

KD-3030, \$550; KD-A6, \$480; KD-65, \$430; KD-S201, \$390; KD-2, \$350; KD-10, \$210

KENWOOD

Kenwood Electronics, Inc.
 75 Seaview Drive
 Secaucus, N.J. 07094

KX-1030

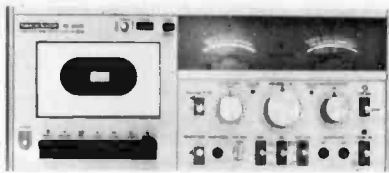
Price \$450
 Heads 3 (ferrite)
 Flutter 0.06% (WRMS)
 Play resp. 35 Hz to 17 kHz, ± 3 dB
 Fast-forward 80 sec (C-60)
 Rewind 80 sec (C-60)
 Noise red. Yes
 Input sens. 77.5 mV (line); 0.19 mV (mic)
 Output level 775 mV
 Impedance 2 ohms
 Meters 2 VU/peak-reading
 R/P resp. 35 Hz to 17 kHz, ± 3 dB
 S/N 65 dB/55 dB
 S/N ref. lvl. 160 nW/m
 THD 1.3%
 THD ref. lvl. 160 nW/m

KX-830

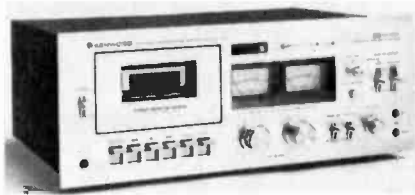
Price \$325
 Heads 2 (hard permalloy)
 Flutter 0.06% (WRMS)
 Play resp. 35 Hz to 15 kHz, ± 3 dB
 Fast-forward 80 sec (C-60)
 Rewind 80 sec (C-60)
 Noise red. Yes
 Input sens. 77.5 mV (line); 0.19 mV (mic)
 Output level 775 mV
 Impedance 0.5K ohms
 Meters 2 VU/peak-reading
 R/P resp. 35 Hz to 15 kHz, ± 3 dB
 S/N 62 dB/52 dB
 S/N ref. lvl. 160 nW/m
 THD 1.3%
 THD ref. lvl. 160 nW/m

KX-550

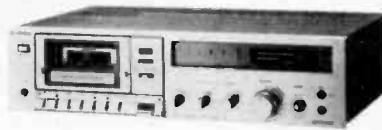
Price \$235
 Heads 2 (hard permalloy)
 Flutter 0.05% (WRMS)
 Play resp. 40 Hz to 15 kHz, ± 3 dB
 Fast-forward 85 sec (C-60)
 Rewind 85 sec (C-60)
 Noise red. Yes
 Input sens. 77.5 mV (line); 0.15 mV (mic)
 Output level 489 mV
 Impedance 100K ohms
 Meters 2 VU



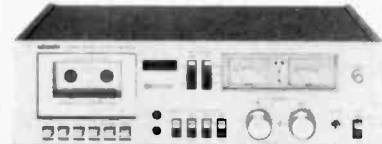
Harman Kardon hk-3500



Kenwood KX-1030



Hitachi D-755



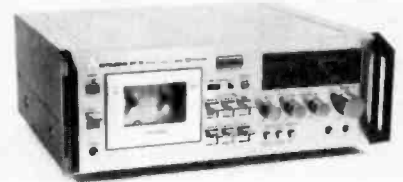
Lafayette RK-D600



NAD 6100



JVC KD-A6



Mitsubishi DT-10

R/P resp. 40 Hz to 15 kHz, ± 3 dB
 S/N 64 dB (w/NR), 54 dB (w/o NR)
 S/N ref. lvl. 160 nWb/m
 THD 1.5%
 THD ref. lvl. 160 nWb/m

Models also available
 KX-760, \$350; KY-650, \$299

LAFAYETTE
 Lafayette Radio Electronics
 Corp.
 111 Jericho Turnpike
 Syosset, N.Y. 11791

RKD-600

Price \$299.99
 Heads 3 (permalloy R/P; ferrite erase)
 Flutter 0.06%
 Play resp. 40 Hz to 60 kHz, ± 3 dB
 Fast-forward 100 sec (C-60)
 Rewind 100 sec (C-60)
 Noise red. Dolby
 Input sens. 60 mV (line); 0.3 mV (mic)
 Output level 0.5 mV
 Impedance 4.7K ohms
 Separation 35 dB (1 kHz)
 Meters 2 VU; peak-reading LED
 Features DC servomotor; damped eject; memory rewind; mpX filter; 3-position bias and EQ switches; output control; mic mixing; full auto-stop front-loading
 Tape #1 Lafayette
 S/N 54 dB/62 dB
 THD 1.7%
 THD ref. lvl. 1 kHz

Models also available
 RKD-225, \$199.99; RKD-150, \$149.99

LENCO
 Neosonic Corp. of America
 180 Miller Place
 Hicksville, N.Y. 11801

C-2003

Price \$796
 Heads 3 (1 ferrite erase; 1 permalloy record; 1 playback)
 Flutter 0.07% (WRMS); 0.16% (DIN)
 Play resp. 30 Hz to 18 kHz, ± 3 dB
 Fast-forward 75 sec (C-60)
 Rewind 75 sec (C-60)
 Noise red. Dolby
 Input sens. 60 mV (line); 350 mV (mic); 8 mV (DIN)
 Output level 750 mV

Impedance 330 ohms
 Erasure 65 dB (1 kHz)
 Meters 2 VU; peak-reading -20 dB to +4 dB)
 Features Two-motor solenoid drive system; mixing facilities; MPX filter; memory rewind

LUX
 Lux Audio of America
 160 Dupont St.
 Plainview, N.Y. 11803

5K-50

Price \$1,995
 Heads 3 Sendust
 Flutter 0.03% (WRMS)
 Input sens. 100 mV (line); 0.25 mV (mic); 2 mV (DIN)
 Output level 580 mV
 Meters Peak reading plasma (-40 dB to +4 dB)

K-5A

Price \$495
 Heads 2 (Sendust)
 Flutter 0.06% (WRMS)
 Play resp. 30 Hz to 20 kHz
 Input sens. 100 mV (line); 0.45 mV (mic); 2 mV (DIN)
 Output level 580 mV
 Meters Peak-reading fluorescent
 Tape #1 Metal
 R/P resp. 30 Hz to 20 kHz

Models also available
 K-12 Cassette Deck, \$995; k-10 Cassette Deck, \$795

MARANTZ
 Superscope, Inc.
 20525 Nordhoff St.
 Chatsworth, Calif. 91311

SD-9000 Two-Speed Deck

Price \$775
 Heads 3 (Sendust)
 Flutter 0.03% (3 $\frac{3}{4}$); 0.05% (1 $\frac{1}{8}$)
 Play resp. 31.5 Hz to 14 kHz, -2 dB (1 $\frac{1}{8}$); 31.5 Hz to 25 kHz, -2 dB (3 $\frac{3}{4}$)
 Fast-forward 85 sec (C-60)
 Rewind 85 seconds for C-60 (length)
 Noise red. Double Dolby
 Input sens. 70 mV (line); 0.25 mV (mic)
 Output level 650 mV (line); 43 mV (headphone)
 Impedance 1.2K ohms (line); 150 ohms (headphone)
 Separation 40 dB at (1 kHz)
 Erasure 60 dB at 1 kHz
 Meters 2 LED peak level

Features Two speed; CompuDeck[®] micro-processor programming and selection; digital display including clock and timer; two-motor transport; auto slack take-up and bias fine adjustment; mic/line mix; record mute; sensor stop
 Tape #1 Metal (3M Metafine)
 R/P resp. 25 Hz to 20 kHz, ± 3 dB (1 $\frac{1}{8}$); 25 Hz to 23 kHz, ± 3 dB (3 $\frac{3}{4}$)
 S/N ref. lvl. 250 nW/m over 5 kHz, (IEC A)
 THD 3%
 THD ref. lvl. 250 nW/m
 Tape #2 FeCr (Sony CS-30)
 R/P resp. 25 Hz to 18 kHz ± 3 dB (1 $\frac{1}{8}$); 25 Hz to 22 kHz, ± 3 dB (3 $\frac{3}{4}$)
 S/N 69/59 dB (1 $\frac{1}{8}$); 72/62 dB (3 $\frac{3}{4}$)
 S/N ref. lvl. 250 nW/m over 5 kHz (IEC A)
 THD 3%
 THD ref. lvl. 250 nW/m

SD-6000 Two-Speed Deck

Price \$500
 Heads 2 (Sendust)
 Flutter 0.03% (3 $\frac{3}{4}$ ips); 0.05% (1 $\frac{1}{8}$)
 Play resp. 31.5 Hz to 14 kHz, -2 dB (1 $\frac{1}{8}$); 31.5 Hz to 25 kHz, -2 dB (3 $\frac{3}{4}$)
 Fast-forward 85 sec (C-60)
 Rewind 85 sec (C-60)
 Noise red. Dolby
 Input sens. 70 mV (line); 0.25 mV (mic)
 Output level 650 mV (line); 43 mV (headphone)
 Impedance 1.2K ohms (line); 150 ohms (headphone)

Separation 40 dB at 1 kHz
 Erasure 60 dB at 1 kHz
 Meters 2 LED peak level
 Features Two-speed; electronic feather-touch operation; memory rewind/replay; output level control; 2-motor transport; auto slack take-up; bias fine adjustment; mic/line mixing; record mute; sensor stop

Tape #1 Metal (3M Metafine)
 R/P resp. 30 Hz to 19 kHz, ± 3 dB (1 $\frac{1}{8}$); 30 Hz to 22 kHz, ± 3 dB (3 $\frac{3}{4}$ ips)
 S/N 68/58 dB (1 $\frac{1}{8}$); 58 71/61 dB (3 $\frac{3}{4}$)
 S/N ref. lvl. 250 nW/m over 5 kHz (IEC A)
 THD 3%
 THD ref. lvl. 250 nW/m
 Tape #2 FeCr Sony CS-30
 R/P resp. 30 Hz to 17 kHz ± 3 dB (1 $\frac{1}{8}$); 30 Hz to 21 kHz, ± 3 dB (3 $\frac{3}{4}$)
 S/N 68/58 dB (1 $\frac{1}{8}$); 58 71/61 dB (3 $\frac{3}{4}$)
 S/N ref. lvl. 250 nW/m over 5 kHz, Weighting Curve IECA
 THD 3%
 THD ref. lvl. 250 nW/m

SD-800

Price \$199
 Heads 2 (super-hard permalloy)
 Flutter 0.08% (WRMS)
 Play resp. 31.5 Hz to 14 kHz ± 2 dB
 Noise red. Dolby

Input sens. 25 mV (line); 0.25 mV (mic)
Output level 800 mV (line); 43 mV (headphone)
Impedance 3.3K ohms (line); 160 ohms (headphone)
Erase 60 dB at 1 kHz
Meters 2 VU (-20 dB to +5 dB)
Features DC servomotor; extended range
 VU meters damped cassette door
Tape #1 FeCr (Sony CS-30)
R/P resp. 35 Hz to 15 kHz, ± 3 dB
S/N 63 dB (w/NR); 54 dB (w/o NR)
S/N ref. lvl. 250 nW/m (IEC A)
THD 3%
THD ref. lvl. 250 nW/m
Tape #2 CrO₂ (TDK AC 511)
R/P resp. 35 Hz to 14 kHz, ± 3 dB
S/N 63 dB (w/NR); 54 dB (w/o NR)
S/N ref. lvl. 250 nW/m (IEC A)
THD 3%
THD ref. lvl. 250 nW/m

Models also available

SD-8000 Two-Speed Deck, \$650;
 SD-4000 Two-Speed Deck, \$435;
 SD-3000, \$295; SD-1000, \$235

MCS® SERIES

J.C. Penney

1301 Ave. of the Americas
 New York, N.Y. 10019

3552

Price \$180
Heads 2 1 (R/P; 1 erase)
Flutter 0.14% (WRMS) (JIS)
Play resp. 40 Hz to 14 kHz ± 3 dB
Fast-forward 110 sec (C-60)
Rewind 110 sec (C-60)
Input sens. 250 mV, +3 dB (line); 0.25 mV, +2 dB (mic)
Output level 800 mV
Impedance 10K ohms
Min. load 47K ohms
Separation 50/35 dB
Erase 65 dB at 1 kHz
Meters +3 VU; peak-reading
Tape #1 3M Master 1
R/P resp. 40 Hz to 12.5 kHz, ± 3 dB
S/N 47 dB (w/NR); 54 dB (w/o NR)
S/N ref. lvl. 2 dB over 0 VU (CCIR) (ARM)
THD 1.5%
THD ref. lvl. 0 UV
Tape #2 3M Master III
R/P resp. 40 Hz to 12.5 kHz, ± 3 dB
S/N 47 dB (w/NR); 56 dB (w/o NR)
S/N ref. lvl. +2 dB 0 VU (CCIR) (ARM)
THD 1.5%
THD ref. lvl. 0 UV

MITSUBISHI

Melco Sales, Inc.

3030 E. Victoria St.
 Compton, Calif. 90221

MT-01 Micro

Price \$560
Heads 2 (Sendust R/P; ferrite erase)
Flutter 0.05%
Play resp. 40 Hz to 15 kHz, ± 3 dB
Fast-forward 80 sec (C-60)
Rewind 80 sec (C-60)
Noise red. Dolby
Input sens. 100 mV (line); 0.3 mV (mic)
Output level 447 mV (0 dB)
Impedance 2.2K ohms
Min. load 22K ohms
Separation 35 dB at 1 kHz
Erase 70 dB at 1 kHz
Meters Peak reading (-20 dB to +5 dB)
Features Closed-loop dual-capstan DC quartz PLL servo drive; logic control transport; bias and EQ switching; ASPS; timer start; memory play/stop; line/mic mixing; MPX filter
Tape #1 FeCr
R/P resp. 40 Hz to 15 kHz, ± 3 dB

S/N 64 dB (w/NR); 56 dB (w/o NR)
S/N ref. lvl. 0 dB (DIN A)
THD 1%
THD ref. lvl. 160 pwb/mm 400 Hz
Tape #2 Special (UDXL I, SA, etc.)
R/P resp. 40 Hz to 15 kHz, ± 3 dB
S/N 64 dB (w/NR); 56 dBw/o NR)
S/N ref. lvl. 0 dB (DIN A)
THD 1%
THD ref. lvl. 160 pwb/mm

DT-10

Price \$370
Heads 2 (permalloy R/P, ferrite erase)
Flutter 0.06%
Play resp. 40 Hz to 15 kHz, ± 3 dB
Fast-forward 80 sec (C-60)
Rewind 80 sec (C-60)
Noise red. Dolby
Input sens. 80 mV (line); 0.24 mV (mic)
Output level 447 mV (+3 dB)
Impedance 2.2K ohms
Min. load 22K ohms
Separation 35 dB at 1 kHz
Erase 70 dB at 1 kHz
Meters VU; peak reading LED (-20 dB to +5 dB)
Features DC servo drive; residual tape meter; line/mic mixing; timer control; bias and EQ switching; memory rewind; master level
Tape #1 Special (UDXL II, SA, etc.)
R/P resp. 40 Hz to 15 kHz, ± 3 dB
S/N 64 dB (w/NR); 56 dB (w/o NR)
S/N ref. lvl. +3 (DIN A)
THD 1%
THD ref. lvl. 160 pwb/mm 400 Hz
Tape #2 Normal (UDXL I, ED, etc.)
R/P resp. 40 Hz to 12 kHz, ± 3 dB
S/N 64 dB (w/NR); 56 dB (w/o NR)
S/N ref. lvl. +3 (DIN A)
THD 1%
THD ref. lvl. 160 pwb/mm

Models also available

DT-30, \$650

NAD

NAD (USA), Inc.

Mackintosh Lane
 P.O. Box 529
 Lincoln, Mass. 01773

NAD-6100

Price \$425
Heads 2 (Sendust R/P; ferrite erase)
Flutter 0.045% (WRMS)
Play resp. 35 Hz to 16 kHz, ± 3 dB
Fast-forward 70 sec (C-60)
Rewind 70 sec (C-60)
Input sens. 35 mV (line); 0.5 mV (mic)
Output level 580 mV
Impedance 2K ohms (output)
Separation 35 dB
Erase 65 dB
Meters VU (-20 dB to +8 dB)
Features DC servomotor; IC logic solenoid transport; fluorescent meters
THD 1.5%
THD ref. lvl. 0 dB (less at lower recording levels)

NAKAMICHI

Nakamichi USA Corp.

1101 Colorado Ave.
 Santa Monica, Calif. 90401

1000-II

Price \$1,650
Heads 3 (1 ferrite record; 1 crystalloy play; 1 ferrite erase)
Flutter 0.05% (WRMS); 0.1% (DIN)
Play resp. 35 Hz to 20 kHz, ± 3 dB
Fast-forward 50 sec (C-60)
Rewind 50 sec (C-60)
Noise red. Dolby; playback NR

Input sens. 50 mV (line); 0.2 mV (mic); 5 mV (DIN radio)
Output level 1V
Impedance 1K ohms
Separation 35 dB (1 kHz)
Erase 60 dB (1 kHz)
Meters 2 peak-reading -40 dB to +10 dB)
Features DC servomotor closed-loop dual capstan; 3 mic/2 line; auto rewind; memory rewind; azimuth alignment beacon; phase-corrected PB circuitry; logic-controlled transport
Tape #1 Nakamichi SX
R/P resp. 35 Hz to 22 kHz, ± 3 dB
S/N 58 dB/65 dB
S/N ref. lvl. 3% THD (WRMS)
THD 1.5%
THD ref. lvl. 0 dB (200 nW/m) (400 Hz)
Tape #2 Nakamichi EX II
R/P resp. 35 Hz to 22 kHz, ± 3 dB
S/N 54 dB/61 dB
S/N ref. lvl. 3% THD (WRMS)
THD 1.5%
THD ref. lvl. 0 dB (200 nW/m) (400 Hz)

680

Price \$1,350
Heads 3 (Sendust-on-ferrite direct-flux erase; Crystalloy record/play)
Flutter 0.08% wtd peak; 0.04% (WRMS) at 7% ips; 0.14% wtd peak, 0.08% (WRMS) at 15/16 ips
Play resp. 20 Hz to kHz, kHz ± 3 dB
Noise red. Dolby
Input sens. 50 mV (line)
Output level 1V
Impedance 3.3K ohms
Separation 37 dB at 1 kHz
Erase 60 dB at 1 kHz (re saturation with metal tape)
Meters 2 VU (-40 dB to +10 dB)
Features Two speed (normal & half); random access music memory; fluorescent display
Tape #1 Nakamichi ZX metalloy
R/P resp. 20 Hz to 22 kHz, ± 3 dB (1 $\frac{1}{2}$ ips); 20 Hz to 15 kHz, ± 3 dB (15/16 ips)
S/N 66 dB (w/NR); 58 dB (w/o NR) (1 $\frac{1}{2}$ ips); 60 dB, -52 dB (15/16 ips)
S/N ref. lvl. 3% THD (IHA A-weighted) (both speeds)
THD 0.8% (1 7/8 ips); 1.5% (15/16 ips)
THD ref. lvl. 0 dB (200 nWb/m), 400 Hz (both speeds)
Tape #2 Nakamichi SX
R/P resp. 20 Hz to 22 kHz, ± 3 dB
S/N 63 dB (w/NR); 55 dB (w/o NR)
S/N ref. lvl. 3% THD (IHF A-weighted)
THD 1.0%
THD ref. lvl. 0 dB

580

Price \$650
Heads 2 (1 direct-flux erase; 1 crystalloy R/P)
Flutter 0.1% (DIN wtd. peak); 0.05% (WRMS)
Play resp. 20 Hz to 20 kHz, ± 3 dB
Fast-forward 60 sec (C-60)
Rewind 60 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line)
Output level 1V
Impedance 3.3K ohms
Separation 37 dB (1 kHz)
Erase 60 dB (1 kHz)
Meters 2 peak-reading -40 dB to +7 dB)
Features 0.9 micron rec/play head; diffused-resonance double-capstan 3-motor transport; active double NF rec/play electronics; full IC logic control; front panel bias and rec. cal.; built-in 400 Hz test tone; memory rewind; timer auto-start; optional wireless remote control
Tape #1 Nakamichi SX
R/P resp. 20 Hz to 20 kHz, ± 3 dB
S/N 56 dB/63 dB
S/N ref. lvl. 3% THD (IHF A)
THD 1.5%
THD ref. lvl. 0 dB (200 nW/m)
Tape #2 Nakamichi EX-II

R/P resp. 20 Hz to 20 kHz, ± 3 dB
 S/N 52 dB/59 dB
 S/N ref. lvl. 3% THD (IHF A)
 THD 1.5%
 THD ref. lvl. 0 dB (200 nW/m)

500

Price \$480
 Heads 2 (1 ferrite erase; 1 crystalloy R/P)
 Flutter 0.08% (WRMS); 0.13% (DIN)
 Play resp. 40 Hz to 17 kHz, ± 3 dB
 Noise red. Dolby
 Input sens. 70 mV (line); 0.2 mV (mic); 13 mV (DIN radio)

Output level 1V
 Impedance 1K ohms
 Separation 35 dB (1 kHz)
 Erasure 60 dB (1 kHz)
 Meters 2 peak-reading -40 dB to +10 dB
 Features Pulse-controlled DC servomotor; 3 mic/2 line; memory rewind; peak limiter; 400 Hz test tone; MPX filter
 Tape #1 Nakamichi SX
 R/P resp. 40 Hz to 17 kHz, ± 3 dB
 S/N 56 dB/63 dB
 S/N ref. lvl. 3% THD (WRMS)
 THD 1.5%
 THD ref. lvl. 0 dB (200 nW/m) (400 Hz)
 Tape #2 Nakamichi EX II
 R/P resp. 40 Hz to 17 kHz, ± 3 dB
 S/N 52 dB/59 dB
 S/N ref. lvl. 3% THD (WRMS)
 THD 1.5%
 THD ref. lvl. 0 dB (200 nW/m) (400 Hz)

250

Price \$310 (playback only); \$335 (with AC adapter)

Heads 1 (crystalloy play only)
 Flutter 0.08% (WRMS); 0.13% (DIN)
 Play resp. 40 Hz to 17 kHz, ± 3 dB
 Noise red. Dolby
 Output level 580 mV into 1K ohm load
 Separation 35 dB (1 kHz)
 Features Pulse-controlled DC servomotor; 12V DC external power or AC with adapter; mates with ADS biamped mini-speakers; mobile-mounting bracket included; tone and balance controls
 Tape #1 Nakamichi SX (70 microsecond playback position)
 R/P resp. 40 Hz to 17 kHz, ± 3 dB (play)
 S/N 55 dB/62 dB
 S/N ref. lvl. 3% THD (WRMS)
 THD 1.5%
 THD ref. lvl. 200 nW/m (400 Hz)
 Tape #2 Nakamichi EX II (120 microsecond playback position)
 R/P resp. 40 Hz to 17 kHz, ± 3 dB (play)
 S/N 51 dB/58 dB
 S/N ref. lvl. 3% THD (WRMS)
 THD 1.5%
 THD ref. lvl. 200 nW/m (400 Hz)

Models also available

700-II, \$1,140; 582, \$890; 550, \$630; 350, \$440 (\$565 with optional carrying case including built-in 12V rechargeable battery)

NEAL-FERROGRAPH

Neal-Ferrograph
 652 Glenbrook Rd.
 Glenbrook, Conn. 06906

302

Price \$995
 Heads 2 (super permalloy)
 Flutter 0.09%
 Fast-forward 50 sec (C-60)
 Rewind 50 sec (C-60)
 Noise red. Dolby
 Input sens. 50 mV (high level, 200K ohms impedance); 500 mV (mic, 2K ohms impedance); 2.5 mV (low level, 10K ohms impedance)
 Output level 600 mV
 Impedance 5K ohms

Separation 40 dB (1 kHz)
 Erasure 65 dB at 1 kHz
 Meters Peak-reading (-25 dB to +5 dB)
 Features Built-in bias test tone and record calibration tone; optional remote control; 3 motors
 Tape #1 Special ferric and CrO₂
 R/P resp. 35 Hz to 15 kHz, +1, -3 dB
 S/N 64 dB (w/NR); 55 dB (w/o NR)
 S/N ref. lvl. Dolby, (CCIR)
 THD 2%
 THD ref. lvl. 22 nM/mm
 Tape #2 Normal ferric oxide
 R/P resp. 35 Hz to 12 kHz, +1, -3 dB
 S/N 62 dB (w/NR); 53 dB (w/o NR)
 S/N ref. lvl. Dolby (CCIR)
 THD 2%
 THD ref. lvl. 22 nM/mm

ONKYO

Onkyo U.S.A. Corp.
 42-07 20th Ave.
 Long Island City, N.Y. 11105

TA-2080

Price \$799.95
 Heads 3 (Sendust)
 Flutter 0.045
 Play resp. 20 Hz to 20 kHz, ± 1.5 dB (metal tape)
 Fast-forward 90 sec (C-60)
 Rewind 90 sec (C-60)
 Noise red. Dolby
 Input sens. 50 mV (line); 0.3 mV (mic)
 Output level 775 mV
 Impedance 50K ohms
 Min. load 8 ohms
 Meters 2 VU; peak-reading (-40 dB to +5 dB)
 Features Closed loop dual capstan; solenoid controls; Auto-Accubias; front-panel Dolby calibration; auto fadeout

TA-630D

Price \$350
 Heads 2 (hyperbolic Sendust)
 Flutter 0.055%
 Play resp. 20 Hz to 18 kHz
 Noise red. Dolby
 Input sens. 50 mV (line); 0.3 mV (mic) (at 50K ohm)
 Output level 50K ohms
 Impedance 0.775V at 0 VU
 Meters 2 VU; peak-reading LEDs
 Features Accu-Bias adjustable circuit; Dolby FM decoding capability
 Tape #1 Sony Ferrichrome
 S/N 58 dB/68 dB

Models also available

TA-2010, \$259.95

OPTONICA

Sharp Electronics Corp.
 10 Keystone Place
 Paramus, N.J. 07652

RT-6905

Price \$1,800
 Heads 4 (Sendust)
 Flutter 0.038%
 Play resp. 31.5 Hz to 14 kHz, ± 3 dB
 Fast-forward 100 sec (C-60)
 Rewind 100 sec (C-60)
 Noise red. Dolby
 Input sens. 50 mV (line); 0.3 mV (mic)
 Output level 1V
 Impedance 50K ohms
 Min. load 50K ohms
 Separation 45 dB at 1 kHz
 Erasure 70 dB
 Meters Fluorescent; peak reading hold-3 sec or hold (-20 dB to +8 dB)
 Features Computer controlled; clock timer; 42 memories; sensitivity and bias fine calibration; APMS[®]; metal capable; 7 day programmable

Tape #1 Maxell UD
 R/P resp. 30 Hz to 16 kHz, ± 3 dB
 S/N 70 dB (w/NR); 60 dB (w/o NR)
 S/N ref. lvl. 250 pwb/mm (IHF A)
 THD 1%
 THD ref. lvl. 160 pwb/mm
 Tape #2 Maxell UDXL II
 R/P resp. 30 Hz to 18 kHz, ± 3 dB
 S/N 70 dB (w/NR); 60 dB (w/o NR)
 S/N ref. lvl. 250 pwb/mm (IHF A)
 THD 1%
 THD ref. lvl. 160 pwb/mm

RT-6202

Price \$470
 Heads 2 (hard permalloy; 1 sendust)
 Flutter 0.04%
 Play resp. 31.5 Hz to 14 kHz, ± 3 dB
 Fast-forward 100 sec (C-60)
 Rewind 100 sec (C-60)
 Noise red. Dolby
 Input sens. 50 mV (line); 0.2 mV (mic)
 Output level 500 mV
 Impedance 47K ohms
 Min. load 47K ohms
 Separation 45 dB at 1 kHz
 Erasure 70 dB at 1 kHz
 Meters 2 fluorescent; peak-reading both hold switch (-20 dB to +8 dB)
 Features LSI tape transport mechanism; opto peak-level display; 9-position APLD[®]; metal capable
 Tape #1 Maxell UD
 R/P resp. 30 Hz to 15 kHz, ± 3 dB
 S/N 67 dB (w/NR); 57 dB (w/o NR)
 S/N ref. lvl. 250 pwb/mm (IHF A)
 THD 1%
 THD ref. lvl. 160 pwb/mm
 Tape #2 Maxell UDXL II
 R/P resp. 30 Hz to 17 kHz, ± 3 dB
 S/N 67 dB (w/NR); 57 dB (w/o NR)
 S/N ref. lvl. 250 pwb/mm, Weighting Curve IHF A
 THD 1%
 THD ref. lvl. 160 pwb/mm

RT-6201

Price \$370
 Heads 2 (1 Sendust R/P; 1 ferrite erase)
 Flutter 0.05% (WRMS)
 Play resp. 31.5 Hz to 12.5 kHz, ± 3 dB
 Fast-forward 100 sec (C-60)
 Rewind 100 sec (C-60)
 Noise red. Dolby
 Input sens. 50 mV (line); 0.2 mV (mic)
 Output level 500 mV
 Impedance 50K ohms
 Min. load 50K ohms
 Separation 45 dB (1 kHz)
 Erasure 70 dB (1 kHz)
 Meters 2 VU (-20 dB to +5 dB); 3 LED (0, +4, +8) peak indicators
 Features Front-loading; solenoid-touch control; auto program search system; edit button; timer start; available in black as RT-6205
 Tape #1 Maxell UDXL-II
 R/P resp. 30 Hz to 16 kHz, ± 3 dB
 S/N 57 dB/67 dB
 S/N ref. lvl. 4 VU (250 nWb/m)
 THD 1.0%
 THD ref. lvl. 0 VU (160 nWb/m)
 Tape #2 Sony FeCr
 R/P resp. 30 Hz to 17 kHz, ± 3 dB
 S/N 57 dB/67 dB
 S/N ref. lvl. 4 VU (250 nWb/m)
 THD 1.5%
 THD ref. lvl. 0 VU (160 nWb/m)

RT-6001

Price \$270
 Heads 2 (ultra-hard permalloy)
 Flutter 0.06%
 Play resp. 31.5 Hz to 14 kHz, ± 3 dB
 Fast-forward 100 sec (C-60)
 Rewind 100 sec (C-60)
 Noise red. Dolby
 Input sens. 63 mV (line); 0.2 mV (mic)
 Output level 550 mV

Impedance 50 ohms
Min. load 50 ohms
Erasure 70 dB at 1 kHz
Meters Fluorescent; peak reading (-20 dB to +8 dB)
Features Opto peak level display; APSS[®] (auto program search system); separate bias and EQ switches
Tape #1 Maxell UD
R/P resp. 30 Hz to 13 kHz, ± 3 dB
S/N 67 dB (w/NR); 57 dB (w/o NR)
S/N ref. lvl. 250 pwb/mm (IHF A)
THD 1.5%
THD ref. lvl. 160 pwb/mm
Tape #2 Maxell UDXL II
R/P resp. 30 Hz to 14 kHz, ± 3 dB
S/N 67 dB (w/NR); 57 dB (w/o NR)
S/N ref. lvl. 250 pwb/mm
THD 1.5%
THD ref. lvl. 160 pwb/mm

Models also available

RT-6502, \$540; RT-6501, \$420;
 RT-6101, \$350; RT-1515, \$250

PHASE LINEAR

Phase Linear Corp.

20121 48th Ave. W.

Lynnwood, Wash. 98036

7000 Series Two

Price \$1,349.95
Heads 3 (Uni-crystal)
Flutter 0.003% (WRMS)
Fast-forward 75 sec (C-60)
Noise red. Double Dolby
Input sens. 60 mV (line); 0.3 mV (mic)
Output level 450 mV
Impedance 10K ohms
Meters 2 VU (-30 dB to +8 dB)
Features MicroScan[®] fully automatic bias-/EQ/level setting with memory; mic/line mixing
Tape #1 Metal
R/P resp. 25 Hz to 19 kHz, ± 3 dB
S/N 70 dB (w/NR); 60 dB (w/o NR)
S/N ref. lvl. 0 dB (DIN)
THD 1%
THD ref. lvl. 0 dB
Tape #2 CrO₂
R/P resp. 25 Hz to 18 kHz, ± 3 dB
S/N 70 dB (w/NR); 60 dB (w/o NR)
S/N ref. lvl. 0 dB (DIN)

PHILIPS

Philips High Fidelity

Laboratories

P.O. Box 2208

Fort Wayne, Ind. 46801

N-2535

Price \$210 (silver); (N2535BK, black, \$230)
Heads 2
Flutter 0.2%
Play resp. 40 Hz to 14 kHz, ± 3 dB
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 100 mV (line); 1 mV (mic)
Output level 0-700 mV (variable)
Separation 60 dB (40 Hz to 14 kHz)
Meters 2 VU; peak-reading μ mND)20 dB to +5 dB)
Features Viscous-damped eject; record overload indicator

PIONEER

U.S. Pioneer Electronics Corp.

75 Oxford Drive

Moonachie, N.J. 07074

CT-F1250

Price \$695

Heads 3 (uni-crystal ferrite)
Flutter 0.03% (WRMS)
Play resp. 25 Hz to 16 kHz, ± 3 dB
Rewind 85 sec (C-60)
Noise red. Dolby
Input sens. 63 mV (line); 0.3 mV (mic)
Output level 450 mV
Impedance 50K ohms
Meters 2 VU (-30 dB to +8 dB)
Features Three-mode fluoroscan meter; memory stop/repeat control
S/N 69 dB (w/NR); 59 dB (w/o NR)
THD 1%

CT-F850

Price \$495
Heads 3 (Sendust)
Flutter 0.04%
Play resp. 25 Hz to 15 kHz ± 3 dB
Rewind 85 sec (C-60)
Noise red. Dolby
Input sens. 64 mV (line); 0.3 mV (mic)
Output level 450 mV
Impedance 85 ohms
Meters 2 VU (-20 dB to +8 dB)
Features Two-mode fluoroscan meter; two DC motors; small window erase head
S/N 69 dB (w/NR); 59 dB (w/o NR)
THD 1.2%

CT-F650

Price \$295
Heads 2 (hard permalloy)
Flutter 0.05%
Play resp. 25 Hz to 15 kHz, ± 3 dB
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.3 mV (mic)
Output level 450 mV
Impedance 75 ohms
Meters 2 VU (-20 dB to +8 dB)
Features DC servo motor; metal adaptable; electronic fluoroscan peak meter
S/N 69 dB (w/NR); 59 dB (w/o NR)
THD 1.2%

Models also available

CT-F950, \$595; CT-F750, \$395;
 CT-F500, \$195

REALISTIC

Radio Shack

Tandy Corp.

Fort Worth, Tex. 76102

SCT-3000

Price \$579.95
Heads 3 (ferrite)
Flutter 0.05% (WRMS)
Play resp. 33 Hz to 14 kHz, ± 2 dB
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Double Dolby
Input sens. 78 mV (line); 0.43 mV (mic)
Output level 550 mV
Impedance 10K ohms
Separation 43 dB at 1 kHz
Erasure 68 dB at 1 kHz
Meters 2 VU; peak-reading LED (-20 dB to +5 dB)
Features Two-solenoid operation; variable bias with twin-tone oscillator; dual capstans
Tape #1 Supertape chrome
R/P resp. 30 Hz to 20 kHz, ± 3 dB
S/N 61 dB (w/NR)
S/N ref. lvl. 200 nWb/m (CCIR)
THD 1.2%
THD ref. lvl. 140 nWb/m
Tape #2 Supertape Gold
R/P resp. 30 Hz to 19 kHz, ± 3 dB
S/N 57 dB (w/NR)
S/N ref. lvl. 200 nWb/m (CCIR)
THD 0.9%
THD ref. lvl. 140 nWb/m

SCT-30

Price \$400
Heads 3 (ferrite)
Flutter 0.06% (WRMS)
Play resp. 32 Hz to 14 kHz, ± 1.5 dB
Fast-forward 100 sec (C-60)
Rewind 100 sec (C-60)
Noise red. Dolby
Input sens. 80 mV (line); 0.31 mV (mic)
Output level 550 mV
Impedance 10K ohms
Min. load 5K ohms
Separation 35 dB (1 kHz)
Erasure 69 dB (1 kHz)
Meters Peak-reading -20 dB to +3 dB)
Features Dual capstan; auto stop; bias adjust control; separate bias and equalization switches
Tape #1 Radio Shack Supertape Gold
R/P resp. 30 Hz to 15 kHz, ± 3 dB
S/N 52 dB/60 dB
S/N ref. lvl. 200 nW/m (CCIR)
THD 0.9%
THD ref. lvl. 220 nW/m
Tape #2 Radio Shack Supertape Chrome
R/P resp. 30 Hz to 16 kHz, ± 3 dB
S/N 53 dB/61 dB
S/N ref. lvl. 200 nW/m (CCIR)
THD 1%
THD ref. lvl. 220 nW/m

Models also available

SCT-16, \$300; SCT-19, \$200;
 SCT-20, \$149.95

REFERENCE

CBS Retail Stores

1301 65th St.

Emeryville, Calif. 94608

412D

Price \$249.95
Heads 2
Flutter 0.06%
Play resp. 30 Hz to 18 kHz, ± 3 dB
Noise red. Dolby
Meters Peak-reading
Features Metal capability; auto shutoff

ROTEL

Rotel of America, Inc.

1055 Saw Mill River Road

Ardsley, N.Y. 10502

RD-2200M

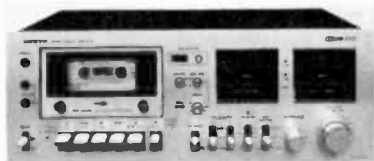
Price \$450
Heads 2 (Sendust)
Flutter 0.05%
Play resp. 30 Hz to 19 kHz, ± 3 dB
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 66 mV (line); 0.8 mV (mic); 10 (DIN)
Output level 650 mV
Impedance 5K ohms
Min. load 20K ohms
Meters 2 VU; peak-reading
Features Full metal capability; fluorescent peak meters; fine bias adjust; 3 tape selectors; rack-mount design
Tape #1 Metal Particle
R/P resp. 30 Hz to 19 kHz
S/N 64 dB (w/NR); 56 dB (w/o NR)

RD-25F

Price \$340
Heads 2 (permalloy)
Flutter 0.07%
Play resp. 20 Hz to 17 kHz, ± 3 dB (CrO₂)
Fast-forward 75 sec (C-60)
Rewind 75 sec (C-60)
Noise red. Dolby
Input sens. 63 mV (line); 0.5 mV (mic); 10 mV (DIN)



Phase Linear 7000 Series Two



Onkyo TA-630D



Realistic Optimus SCT-3000



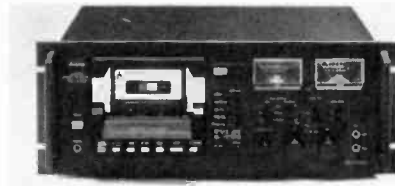
Sanyo D-45



MCS 3552



Pioneer CT-F1250



Sansui SC-5330

Output level 550 mV/5K ohms
 Impedance 5K ohms
 Min. load 20K ohms
 Erasure 60 dB (1 kHz)
 S/N 53 dB/60 dB
 THD 1.5%

Models also available

RD-2000, \$370; RD-1000, N/A

SAE TWO

Scientific Audio Electronics, Inc.

701 E. Macy St.
Los Angeles, Calif. 90012

C-4

Price \$500
 Heads 2 (Sendust)
 Flutter 0.06
 Play resp. 30 Hz to 14 kHz, ± 2 dB
 Fast-forward 70 sec (C-60)
 Rewind 70 sec (C-60)
 Noise red. Dolby
 Input sens. 57 mV (line); 0.18 mV (mic)
 Output level 350 mV
 Separation 40 dB at 1 kHz
 Erasure 65 dB at 1 kHz
 Meters Peak-reading (-25 dB to +5 dB)
 Features Fluorescent display; variable bias; full logic
 Tape #1 Metal
 R/P resp. 30 Hz to 18 kHz, ± 2.5 dB
 S/N 65 dB (w/NR); 57 dB (w/o NR)
 S/N ref. lvl. 0 VU; (CCIR) (ARM)
 THD 0.9%
 THD ref. lvl. 0 VU
 Tape #2 High output
 R/P resp. 30 Hz to 18 kHz, ± 2.5 dB
 S/N 63 dB (w/NR); 55 dB (w/o NR)
 S/N ref. lvl. 0 VU (CCIR) (ARM)
 THD 1.1%
 THD ref. lvl. 0 VU

Models also available

C-3D, \$400

SANSUI

Sansui Electronics Corp.
55-11 Queens Blvd.
Woodside, N.Y. 11377

SC-5330

Price \$520
 Heads 2 (ferrite head R/P for metal tape; 1 ferrite erase)
 Flutter 0.038%
 Fast-forward 70 sec (C-60)
 Rewind 70 sec (C-60)
 Noise red. Dolby
 Input sens. 70 mV (line); 0.2 mV (mic)
 Output level 400 mV
 Min. load 47K ohms
 Separation 50 dB at 1 kHz
 Erasure 70 dB (full range)
 Meters 2 VU; (-20 dB to +5 dB)
 Features Feather-touch solenoid controls; auto play; VU meters with 5 LED peak level indicators; repeat and memory by logic control circuitry; one-touch tape lead in; rec. mute; timer rec. and play function; mic/mixing; MPX filter; output level control; matte black finish; detachable rack-mounting handles; Direct-O-MaticSM front-loading
 Tape #1 Metal
 R/P resp. 20 Hz to 20 kHz, ± 3 dB
 S/N 69 dB (w/NR); 59 dB (w/o NR)
 S/N ref. lvl. 3% (A-weighted)
 THD 1%
 THD ref. lvl. 0 VU
 Tape #2 CrO₂
 R/P resp. 20 Hz to 17 kHz, ± 3 dB

D-90

Price \$200
 Heads 2 (1 1 super-hard permalloy R/P; 1 ferrite erase)
 Flutter 0.055%
 Noise red. Dolby
 Input sens. 70 mV (line); 0.2 mV (mic)
 Output level 400 mV (line)
 Min. load 47K ohms
 Separation 45 dB (1 kHz)
 Erasure 65 dB at 1 kHz
 Meters 2 VU
 Features Timer rec. and play potential; independent bias/EQ switches; full auto-stop
 Tape #1 CrO₂
 R/P resp. 35 Hz to 15 kHz, ± 3 dB
 S/N 69 dB (w/NR); 59 dB (w/o NR)
 S/N ref. lvl. 3% (A-weighted)
 THD 1.5%
 THD ref. lvl. 0 VU
 Tape #2 LH
 R/P resp. 35 Hz to 14 kHz, ± 3 dB

Models also available

SC-3300, \$420; SC-1330, \$320

SANYO

Sanyo Electric, Inc.
Consumer Electronics Div.
1200 W. Artesia Blvd.
Compton, Calif. 90220

RD-5372

Price \$500
 Heads 3 (Sendust alloy R/P)
 Flutter 0.04%
 Play resp. 30 Hz to 19 kHz, ± 3 dB
 Noise red. Dolby
 Meters 2 VU; peak-reading; LED meters
 Tape #1 Metal-particle "Supertape"
 R/P resp. 30 Hz to 19 kHz, ± 3 dB
 S/N 70 dB (w/NR); 62 dB (w/o NR)
 THD 0.8%
 Tape #2 CrO₂
 R/P resp. 30 Hz to 18 kHz, ± 3 dB
 S/N 67 dB (w/NR); 59 dB (w/o NR)
 THD 0.8%

RD-5250

Price \$169.95
 Heads 2 (permalloy)
 Flutter 0.08%
 Play resp. 13 Hz to 16 kHz, ± 3 dB
 Noise red. Dolby
 Meters 2 VU
 Features Separate input/output controls; separate EQ and bias; timer standby in record and Dolby mode; full auto stop
 Tape #1 CrO₂
 R/P resp. 30 Hz to 16 kHz, ± 3 dB
 S/N 64 dB (w/NR)

RD-5030

Price \$159.95
 Heads 2 (permalloy)
 Flutter 0.08%
 Play resp. 30 Hz to 16 kHz, ± 3 dB
 Noise red. Dolby
 Meters 2 VU
 Features Mechanical tape tension serve; separate EQ and bias; digital tape counter; full auto stop
 Tape #1 CrO₂
 S/N 62 dB

RD-5008

Price \$129.95
 Heads 2 (permalloy)
 Flutter 0.1%
 Play resp. 30 Hz to 14 kHz, ± 3 dB
 Noise red. Dolby
 Meters 2 VU (LED)

Features Tape select for normal or CrO₂; full auto stop
S/N 60 dB (w/NR)

PLUS D-65

Price \$399.95
Heads 3 (1 Sendust R/P; 1 2 ferrite erase)
Flutter 0.04%
Play resp. 20 Hz to 18 kHz, ± 3 dB
Noise red. Dolby
Input sens. 50 mV (line); 0.3 mV (mic)
Output level 530 mV
Meters 2 VU
Features Two-motor full-logic solenoid controls; full auto reverse; LED tape direction; 8 full-function electronic-touch controls; timer standby
Tape #1 Metal
R/P resp. 20 Hz to 18 kHz, ± 3 dB
S/N 70 dB (w/NR); 62 dB (w/o NR)
THD 0.8%
Tape #2 CrO₂
R/P resp. 20 Hz to 16 kHz, ± 3 dB
S/N 67 dB (w/NR); 59 dB (w/o NR)
THD 0.8%/1.5%

PLUS D-45

Price \$259.95
Heads 2 (1 Sendust alloy R/P; 1 ferrite erase)
Flutter 0.05%
Play resp. 30 Hz to 19 kHz, ± 3 dB
Noise red. Dolby
Input sens. 0.3 mV (line); 50 mV (mic)
Output level 530 mV
Meters 1 peak-hold
Features Defeatable FM MPX filter; mic/line mixing; record mute control; timer standby; auto-stop
Tape #1 Metal
R/P resp. 30 Hz to 19 kHz, ± 3 dB
S/N 59 dB (w/NR); 67 dB (w/o NR)
THD 0.8%
Tape #2 CrO₂
R/P resp. 30 Hz to 17 kHz, ± 3 dB
S/N 56 dB/64 dB
THD 0.8%

Models also available

RD-5370, \$400; RD-5350, \$250; RD-5340, \$230; RD-5035, \$189.95; Plus D-62, \$329.95; Plus D-60, \$329.95; Plus D-55, \$289.95

SCOTT

H. H. Scott
20 Commerce Way
Woburn, Mass. 01801

670D

Price \$250
Heads 1 (permalloy)
Flutter 0.07% (WRMS)
Play resp. 25 Hz to 16 kHz, ± 3 dB
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.5 mV (mic)
Output level 580 mV
Impedance 2.5K ohms
Min. load 10K ohms
Separation 40 dB (1 kHz)
Erasure 70 dB (1 kHz)
Features Soft-eject front loading; tape-memory rewind; peak indicator; record & Dolby LEDs; 19" rack-mount handle option
Tape #1 Maxwell UD
R/P resp. 25 Hz to 14 kHz, ± 3 dB
S/N 56 dB/64 dB
S/N ref. lvl. 3% THD (IHF A-weighted)
THD 1.5%

THD ref. lvl. 0 dB VU
Tape #2 TDK SA
R/P resp. 25 Hz to 16 kHz, ± 3 dB
S/N 56 dB/64 dB
S/N ref. lvl. 3% THD (IHF A-weighted)
THD 1.5%
THD ref. lvl. 0 dB VU

SHARP

Sharp Electronics Corp.
10 Keystone Place
Paramus, N.J. 07652

RT-4488

Price \$499
Heads 2 (permalloy plus)
Flutter 0.048 WRMS
Play resp. 31.5 Hz to 14 kHz, ± 3 dB
Fast-forward 95 sec (C-60)
Rewind 95 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.3 mV (mic)
Output level 775 mV
Impedance 50K ohms
Min. load 50K ohms
Separation 70 dB at 1 kHz
Erasure 70 dB at 1 kHz
Meters Fluorescent; peak reading; hold switch (-20 dB to +8 dB)
Features Built-in clock; 5 memories; metal capable; mic/line mixing; MPX filter; Sharpscan peak-level display
Tape #1 Maxell UD
R/P resp. 30 Hz to 14 kHz, ± 3 dB
S/N 68 dB (w/NR); 58 dB (w/o NR)
S/N ref. lvl. 250 pwb/mm (IHF A)
THD 1%
THD ref. lvl. 160 pwb/mm
Tape #2 Sony FeCr
R/P resp. 30 Hz to 17 kHz, ± 3 dB
S/N 68 dB (w/NR); 58 dB (w/o NR)
S/N ref. lvl. 250 pwb/mm (IHF A)
THD 1%
THD ref. lvl. 160 pwb/mm

RT-3388

Price \$409
Heads 2 (ultra-hard permalloy)
Flutter 0.06% (WRMS)
Play resp. 31.5 Hz to 12.5 kHz, ± 3 dB
Fast-forward 100 sec (C-60)
Rewind 100 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.2 mV (mic)
Output level 775 mV
Impedance 50K ohms
Min. load 50K ohms
Separation 60 dB (1 kHz)
Erasure 70 dB (1 kHz)
Meters 2 VU -20 dB to +5 dB; peak-reading LED
Features Front-loading; built-in clock; 5 memories; separate bias and equalization controls; second counter
Tape #1 Maxell UDXL-II
R/P resp. 30 Hz to 15 kHz, ± 3 dB
S/N 58 dB/68 dB
S/N ref. lvl. 250 nWb/m
THD 1.5%
THD ref. lvl. 160 nWb/m
Tape #2 Sony FeCr
R/P resp. 30 Hz to 16 kHz, ± 3 dB
S/N 58 dB/68 dB
S/N ref. lvl. 250 nWb/m
THD 1.5%
THD ref. lvl. 160 nWb/m

RT-1199

Price \$329
Heads 2 (permalloy)
Flutter 0.058%
Play resp. 31.5 Hz to 14 kHz, ± 3 dB

Fast-forward 100 sec (C-60)
Rewind 100 sec (C-60)
Noise red. Dolby
Input sens. 63 mV (line); 0.2 mV (mic)
Output level 710 mV
Impedance 50K ohms
Min. load 50K ohms
Separation 45 dB (1 kHz)
Erasure 70 dB
Metefs Fluorescent; peak reading; hold switch (-20 dB to +8 dB)

Features Sharpscan peak level display; 9-position APLD[®]; metal capable; mic/line mixing
Tape #1 Maxell UD
R/P resp. 40 Hz to 12.5 kHz, ± 3 dB
S/N 67 dB (w/NR); 57 dB (w/o NR)
S/N ref. lvl. 250 pwb/mm (IHF A)
THD 1%
THD ref. lvl. 160 pwb/mm
Tape #2 Maxell UDXL-II
R/P resp. 40 Hz to 14 kHz, ± 3 dB
S/N 67 dB (w/NR); 57 dB (w/o NR)
S/N ref. lvl. 250 pwb/mm
THD 1%
THD ref. lvl. 160 pwb/mm

RT-1165-II

Price \$239
Heads 2 (1 ultra-hard permalloy R/P; 1 ferrite erase)
Flutter 0.08% (WRMS)
Play resp. 31.5 Hz to 12.5 kHz, ± 3 dB
Fast-forward 100 sec (C-60)
Rewind 100 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.2 mV (mic)
Output level 500 mV
Impedance 50K ohms
Min. load 50K ohms
Separation 40 dB (1 kHz)
Erasure 70 dB (1 kHz)
Meters 2 VU (-20 dB to +5 dB); LED peak-reading indicator
Features DC servo-drive system; mic/line mixing; auto program search system; edit button; record and Dolby indicators
Tape #1 Maxell UDXL-II
R/P resp. 30 Hz to 14 kHz, ± 3 dB
S/N 54 dB/62 dB
S/N ref. lvl. 4 VU (250 nWb/m)
THD 1.5%
THD ref. lvl. 0 VU (160 nWb/m)
Tape #2 Sony FeCr
R/P resp. 30 Hz to 14 kHz, ± 3 dB
S/N 54 dB/62 dB
S/N ref. lvl. 4 VU (250 nWb/m)
THD 1.5%
THD ref. lvl. 0 VU (160 nWb/m)

RT-1144

Price \$189
Heads 2 (1 hard permalloy R/P; 1 ferrite erase)
Flutter 0.08% (WRMS)
Play resp. 40 Hz to 12.5 kHz, ± 3 dB
Fast-forward 100 sec (C-60)
Rewind 100 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.2 mV (mic)
Output level 410 mV
Impedance 50K ohms
Min. load 50K ohms
Separation 35 dB (1 kHz)
Erasure 70 dB (1 kHz)
Meters 2 VU (-20 dB to +5 dB)
Features Front-loading; auto program search system; separate bias and equalization; record indicator
Tape #1 Maxell UDXL-II
R/P resp. 40 Hz to 13 kHz, ± 3 dB
S/N 52 dB/62 dB
S/N ref. lvl. 4 VU (250 nWb/m)
THD 1.5%
THD ref. lvl. 0 VU (160 nWb/m)
Tape #2 Sony FeCr
R/P resp. 40 Hz to 13 kHz, ± 3 dB
S/N 52 dB/62 dB

S/N ref. lvl. 4 VU (250 nWb/m)
 THD 1.5%
 THD ref. lvl. 0 VU (160 nWb/m)

Models also available

RT-2266, \$449; RT-2251, \$359;
 RT-1177, \$269; RT-1157-II, \$219;
 RT-1125, \$169

SHERWOOD

Sherwood Co.

4300 N. California Ave.
 Chicago, Ill. 60618

CD-200 CP

Price \$330
 Heads 2 (Sendust)
 Play resp. 30 Hz to 17 kHz, ± 3 dB
 Fast-forward 95 sec (C-60)
 Rewind 95 sec (C-60)
 Noise red. Dolby
 Input sens. 90 mV (line); 0.4 mV (mic); 2.0(DIN)
 Output level 720 mV
 Impedance 100K ohms
 Min. load 10K ohms
 Separation 40 dB at 1 kHz
 Erasure 60 dB at 1 kHz
 Meters 2 VU; peak-reading LED (-20 dB to +5 dB)
 Features Certified Performance: notorized certificate with each unit shows exact performance
 Tape #1 Scotch Master III FeCr
 R/P resp. 30 Hz to 17 kHz, ± 3 dB
 S/N 68 dB (w/NR); 58 dB (w/o NR)
 S/N ref. lvl. 3% above 5 kHz
 THD 1.2%
 THD ref. lvl. 0 VU
 Tape #2 TDK SA
 R/P resp. 30 Hz to 17 kHz, ± 3 dB
 S/N 68 dB (w/NR); 58 dB (w/o NR)
 S/N ref. lvl. 3% above 5 kHz
 THD 1.2%
 THD ref. lvl. 0 VU

SONY

Sony Industries, Inc.
 9 West 57th St.
 New York, N.Y. 10019

TC-K8B

Price \$850
 Heads 2 (ferrite-and-ferrite)
 Flutter 0.045% (WRMS)
 Play resp. 30 Hz to 16 kHz, ± 3 dB
 Fast-forward 70 sec (C-60)
 Noise red. Dolby
 Input sens. 60 mV (line); 0.2 mV (mic)
 Output level 775 mV
 Impedance 10K ohms
 Meters 2 liquid-crystal bar signal-level indicators with auto/manual peak-hold; (- ∞ to +5 dB)
 Features Peak-limiter
 Tape #1 FeCr
 R/P resp. 30 Hz to 16 kHz, ± 3 dB
 S/N 60 dB
 Tape #2 CrO₂
 R/P resp. 30 Hz to 15 kHz, ± 3 dB
 S/N 56 dB

TC-K96R

Price \$260
 Heads 3 (ferrite-and-ferrite)
 Flutter 0.05% (WRMS)
 Play resp. 30 Hz to 16 kHz, ± 3 dB

Fast-forward 85 sec (C-60)
 Rewind 85 sec (C-60)
 Noise red. Dolby
 Input sens. 77.5 mV (line); 0.25 mV (mic)
 Output level 435 mV (fixed); 77.5 mV to 775 mV (variable)
 Impedance 100K ohms
 Min. load 10K ohms
 Separation 35 dB at 1 kHz
 Erasure 60 dB at 40 Hz
 Meters VU; 1 peak-reading LED
 Features Automatic reverse; roto-bilateral; microprocessor tape-function control; Dolby and FM MPX filter
 Tape #1 FeCr
 R/P resp. 30 Hz to 16 kHz, ± 3 dB
 S/N 69 dB (w/NR); 59 dB (w/o NR)
 S/N ref. lvl. -20 dB (IHF A)
 THD 1.3%
 THD ref. lvl. 0 dB
 Tape #2 Sony EHF
 R/P resp. 30 Hz to 15 kHz, ± 3 dB
 S/N 65 dB (w/NR); 55 dB (w/o NR)
 S/N ref. lvl. -20 dB (IHF A)

TC-K55

Price \$400
 Heads 2 (sendust and ferrite)
 Flutter 0.04% (RMS)
 Fast-forward 80 sec (C-60)
 Rewind 80 sec (C-60)
 Noise red. Dolby
 Input sens. 77.5 mV (line); 0.25 mV (mic)
 Output level 935 mV
 Impedance 50K ohms
 Min. load 10K ohms
 Separation 35 dB (1 kHz)
 Erasure 60 dB at 400 Hz
 Meters 2 VU; peak reading (-20 dB to +5 dB)
 Features Auto-space; recording mute; full logic IC operation; auto play
 Tape #1 Sony FeCr
 R/P resp. 30 Hz to 17 kHz, ± 3 dB
 S/N 68 dB (w/NR); 58 dB (w/o NR)
 S/N ref. lvl. -20 dB (IHF A)
 THD 1%
 THD ref. lvl. 0 dB
 Tape #2 Sony EHF
 R/P resp. 30 Hz to 16 kHz, ± 3 dB
 S/N 66 dB (w/NR); 56 dB (w/o NR)
 S/N ref. lvl. -20 dB (IHF A)

TC-K45

Price \$320
 Heads 2 (ferrite and ferrite)
 Flutter 0.05% (WRMS)
 Play resp. 90 sec (C-60)
 Fast-forward 90 sec (C-60)
 Noise red. Dolby
 Input sens. 77.5 mV (line); 0.25 mV (mic)
 Output level 435 mV
 Impedance 50K ohms
 Min. load 10K ohms
 Separation 35 dB (1 kHz)
 Erasure 60 dB at 400 Hz
 Meters peak reading; (-40 to +5 dB)
 Features Recording mute; memory; auto play
 Tape #1 Sony FeCr
 R/P resp. 30 Hz to 15 kHz, ± 3 dB
 S/N 68 dB (w/NR); 58 dB (w/o NR)
 S/N ref. lvl. 20 dB (IHF A)
 THD 1.3%
 THD ref. lvl. 0 dB
 Tape #2 Sony EHF
 R/P resp. 30 Hz to 15 kHz, ± 3 dB
 S/N 66 dB (w/NR); 56 dB (w/o NR)
 S/N ref. lvl. -20 dB (IHF A)

TC-K35

Price \$250
 Heads 2 (ferrite and ferrite)
 Flutter 0.05% (WRMS)
 Fast-forward 90 sec (C-60)

Rewind 90 sec (C-60)
 Noise red. Dolby
 Input sens. 77.5 mV (line); 0.25 mV (mic);
 Output level 435 mV
 Impedance 50K ohms
 Min. load 10K ohms
 Separation 35 dB (1 kHz)
 Erasure 60 dB at 400 Hz
 Meters 2 VU; peak reading LED (± 20 dB to +5 dB)
 Features Auto play; recording mute
 Tape #1 Sony FeCr
 R/P resp. 30 Hz to 15 kHz, ± 3 dB
 S/N 68 dB (w/NR); 58 dB (w/o NR)
 S/N ref. lvl. -20 dB (IHF A)
 THD 1.3%
 THD ref. lvl. 0 dB
 Tape #2 Sony EHF
 R/P resp. 30 Hz to 15 kHz, ± 3 dB
 S/N 66 dB (w/NR); 56 dB (w/o NR)
 S/N ref. lvl. -20 dB (IHF A)

TC-K1A

Price \$180
 Heads 2
 Flutter 0.08% (WRMS)
 Play resp. 50 Hz to 13 kHz, ± 3 dB
 Fast-forward 90 sec (C-60)
 Noise red. Dolby
 Input sens. 77.5 mV (line); 0.25 mV (mic)
 Output level 435 mV
 Impedance 10K ohms
 Meters 2 VU (-20 dB to +5 dB)
 Tape #1 FeCr
 R/P resp. 50 Hz to 13 kHz, ± 3 dB
 S/N 55 dB
 Tape #2 CrO₂
 R/P resp. 50 Hz to 13 kHz, ± 3 dB
 S/N 53 dB

Models also available

TC-D5, \$680; TC-K75, \$600; TC-K60, \$550; TC-K65, \$500; TC-158SD, \$390; TC-K2A Cassette Deck, \$200

SUPERSCOPE

Superscope, Inc.
 20525 Nordhoff St.
 Chatsworth, Calif. 91311

CD-330 Portable

Price \$290
 Heads 3 (superhard permalloy)
 Flutter 0.12% (WRMS)
 Play resp. 40 Hz to 17 kHz, ± 3 dB
 Fast-forward 110 sec (C-60)
 Rewind 110 sec (C-60)
 Noise red. Dual-Process Dolby
 Input sens. 77.5 mV (line); 0.2 mV (mic)
 Output level 775 mV
 Impedance 5K ohms (line)
 Min. load 1.5K ohms
 Separation 38 dB (1 kHz)
 Erasure 55 dB (100 Hz)
 Meters 2 VU (-20 dB to +5 dB)
 Features Tape/source monitoring; automatic-manual-limiter recording; portable
 Tape #1 CrO₂
 R/P resp. 40 Hz to 13 kHz, ± 3 dB
 S/N 50 dB/60 dB
 S/N ref. lvl. Dolby (CCIR)
 THD 1.5%
 THD ref. lvl. 0 VU
 Tape #2 FeCr
 R/P resp. 40 Hz to 14 kHz, ± 3 dB
 S/N 50 dB/60 dB
 S/N ref. lvl. Dolby (CCIR)
 THD 1.8%
 THD ref. lvl. 0 VU

Models also available

CD-320, \$220

TANDBERG

Tandberg of America, Inc.

Labriola Court

Armonk, N.Y. 10504

TCD-440

Price \$1,600
Heads 3 (ferrite erase and record; permalloy playback)
Flutter 0.06%
Play resp. 20 Hz to 20 kHz, ± 3 dB
Fast-forward 60 sec (C-60)
Rewind 60 sec (C-60)
Noise red. Dolby
Input sens. 80 mV (line); 0.15 mV (mic)
Output level 1.5V
Impedance 100 ohms
Separation 60 dB (1 kHz)
Erasure 80 dB at 1 kHz
Meters 2 peak-reading (-30 dB to +5 dB)
Features Dyneq[®] record system; logic control; three motors; flying start
Tape #1 Maxell UDXL-1
R/P resp. 20 Hz to 20 kHz, ± 3 dB
S/N 55 dB (w/NR); 65 dB (w/o NR)
S/N ref. lvl. 3 (IEC A)
THD 2%
THD ref. lvl. 3
Tape #2 Maxell UDXL-II
R/P resp. 20 Hz to 20 kHz, ± 3 dB
S/N 66 dB (w/NR); 55 dB (w/o NR)
S/N ref. lvl. 3% (IEC A)
THD 2%
THD ref. lvl. 3%

TCD-320

Price \$700
Heads 2 (1 ferrite erase; 1 hard permalloy R/P)
Flutter 0.09%
Play resp. 40 Hz to 17 kHz, ± 3 dB
Fast-forward 60 sec (C-60)
Rewind 60 sec (C-60)
Noise red. Dolby
Input sens. 40 mV (line); 0.15 mV (mic)
Output level 775 mV
Impedance 1.5K ohms
Separation 60 dB (1 kHz)
Erasure 65 dB (1 kHz)
Meters 2 peak-reading (-30 dB to +5 dB)
Features Three motors; dual-capstan closed-loop; solenoid operation; servo spooling
Tape #1 Maxell UDXL-I
R/P resp. 40 Hz to 17 kHz, ± 3 dB
S/N 55 dB/65 dB
S/N ref. lvl. 3% (IEC A)
THD 2%
THD ref. lvl. 3%
Tape #2 Maxell UDXL-II
R/P resp. 40 Hz to 17 kHz, ± 3 dB
S/N 55 dB/65 dB
S/N ref. lvl. 3% (IEC A)
THD 2%
THD ref. lvl. 3%

Models also available

TCD-340A, \$1,200

TEAC

Teac Corp. of America

7733 Telegraph Road

Montebello, Calif. 90640

C-1 (Champagne) or C-1B (Brown)

Price \$1,350
Heads 3 (ferrite)
Flutter 0.04%
Play resp. 30 Hz to 18 kHz, ± 3 dB
Fast-forward 70 sec (C-60)
Rewind 70 sec (C-60)
Noise red. Dolby, plus optional outboard dbx (RX-8)
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 0.3V
Impedance 50K ohms
Min. load 50K ohms
Separation 45 dB (1 kHz)
Erasure 65 dB (1 kHz)
Meters 2 peak-reading (-30 dB to +5 dB)
Features Dual capstan; outboard dbx provision; interchangeable bias and EQ cards; 202B mic attenuation; 3 motors
Tape #1 Maxell UDXL
R/P resp. 30 Hz to 18 kHz, ± 3 dB
S/N 60 dB/70 dB above 5 kHz
S/N ref. lvl. 3% THD (NAB)
THD ref. lvl. 0 VU
Tape #2 TDK SA
R/P resp. 30 Hz to 18 kHz, ± 3 dB
S/N 60 dB/70 dB above 5 kHz
S/N ref. lvl. 3% THD (NAB)

C-2

Price \$1,000
Heads 3
Flutter 0.05%
Play resp. 20 Hz to 20 kHz
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 300 mV
Impedance 50K ohms
Min. load 50K ohms
Meters 2 peak-reading (-20 dB to +5 dB)

A-601R

Price \$650
Heads 2 (Sendust)
Flutter 0.07%
Play resp. 30 Hz to 16 kHz, ± 3 dB
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 300 mV
Impedance 50K ohms
Min. load 50K ohms
Separation 45 dB (1 kHz)
Erasure 65 dB (1 kHz)
Meters 2 VU (-20 dB to +3 dB)
Features Auto reverse; auto repeat; mic attenuation; separate capstans for each direction
Tape #1 Maxell UDXL-II
R/P resp. 30 Hz to 16 kHz, ± 3 dB
S/N 55 dB/65 dB at 5 kHz
S/N ref. lvl. 3% THD (NAB)
Tape #2 TDK SA
R/P resp. 30 Hz to 16 kHz, ± 3 dB
S/N 55 dB/65 dB at 5 kHz
S/N ref. lvl. 3% THD (NAB)

A-430

Price \$500
Heads 3
Flutter 0.07%
Play resp. 30 Hz to 17 kHz
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 300 mV

Impedance 50K ohms
Min. load 50K ohms
Meters 2 VU (-20 dB to +5 dB)
Features Auto bias

M-124

Price \$475
Heads 2
Flutter 0.07%
Play resp. 30 Hz to 16 kHz
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 300 mV
Impedance 50K ohms
Min. load 50K ohms
Meters 2 VU (-20 dB to +3 dB)
Features Sync-cassette

CX-270

Price \$250
Heads 2
Flutter 0.07%
Play resp. 30 Hz to 16 kHz
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 300 mV
Impedance 50K ohms
Min. load 50K ohms
Meters 2 Fluorescent meters (-20 dB to +3 dB)

Models also available

CX-650R, \$700; C-30, \$600; A-550RX, \$550; A-510, \$475; A-500, \$425; A-300, \$425; CX-210, \$200

TECHNICS

Panasonic Co.

One Panasonic Way

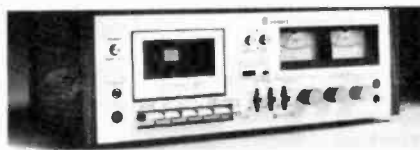
Secaucus, N.J. 07094

RS-9900US

Price \$2,000
Heads 3 (1 hot-pressed ferrite record; 1 hot-pressed ferrite playback; 1 double-gap ferrite erase)
Flutter 0.04% (WRMS)
Play resp. 25 Hz to 20 kHz, ± 3 dB
Fast-forward 70 sec (C-60)
Rewind 70 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 420 mV
Min. load 22K ohms
Meters 2 VU; peak-reading
Features Two rack-mountable chassis (1 electronics, 1 transport); 3-position bias and EQ selectors, plus continuously variable bias and EQ adjustment; separately controlled mic/line/aux mixing; tape-timer meter; pitch (variable speed) control ($\pm 5\%$); memory rewind; memory play; adjustable azimuth; Dolby FM function; built-in test tones (400 Hz and 8 kHz); built-in mic attenuator; fully transistorized switching; volume control for headphone output
Tape #1 TDK SA or any CrO₂
R/P resp. 25 Hz to 20 kHz, ± 3 dB
S/N 57 dB/67 dB



Scott 670D



Sherwood CD-200CP



Teac C-2



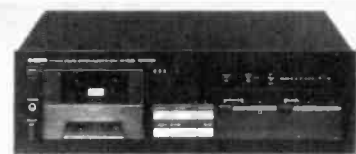
Sharp RT-4488



Tandberg TCD-440A



Uher CR-240



Yamaha TC-920B

THD 1.4%
 THD ref. lvl. 160 nWb/m
 Tape #2 High-output, low-noise ferric oxide
 R/P resp. 25 Hz to 18 kHz, ± 3 dB
 S/N 55 dB/63 dB

RS-M95

Price \$1,300
 Heads 3 (2 HPF; 1 Sendust ferrite)
 Flutter 0.03%
 Play resp. 20 Hz to 20 kHz, ± 3 dB
 Fast-forward 80 sec (C-60)
 Rewind 80 sec (C-60)
 Noise red. Dolby
 Input sens. 60 mV (line); 0.25 mV (mic)
 Output level 650 mV
 Impedance 6K ohms
 Min. load 22K ohms
 Meters 2-color fluorescent peak-reading with peak-hold (-20 dB to +8 dB)
 Features Two quartz DD motors; micro-processor tape tension control; fine bias (separate for each tape type)
 Tape #1 Metal
 R/P resp. 20 Hz to 20 kHz, ± 3 dB
 S/N 70 dB (w/NR); 60 dB (w/o NR)
 Tape #2 TDK SA
 R/P resp. 20 Hz to 19 kHz, ± 3 dB
 S/N 70 dB (w/NR); 60 dB (w/o NR)

RS-M85 Mk 2

Price \$700
 Heads 2 (1 SX Sendust R/P; 1 ferrite erase)
 Flutter 0.035% (WRMS) (JIS)
 Play resp. 20 Hz to 20 kHz
 Fast-forward 80 sec (C-60)
 Rewind 80 sec (C-60)
 Noise red. Dolby
 Input sens. 60 mV (line); 0.25 mV (mic)
 Output level 700 mV
 Min. load 22K ohms
 Meters 2 VU; peak-reading (-20 dB to +8 dB)
 Features FL meter; quartz-locked direct drive; IC logic control;
 Tape #1 CrO₂, FeCr; Metal
 R/P resp. 20 Hz to 20 kHz
 S/N 59 dB/69 dB

Tape #2 2 CrO₂; FeCr
 R/P resp. 30 Hz to 16 kHz

RS-M56

Price \$500
 Heads 2 (HPF; + ferrite)
 Flutter 0.05%
 Play resp. 30 Hz to 17 kHz
 Fast-forward 86 sec (C-60)
 Rewind 86 sec (C-60)
 Noise red. Dolby
 Input sens. 60 mV (line); 0.25 mV (mic)
 Output level 420 mV
 Impedance 1K ohms
 Min. load 22K ohms
 Meters 2-color fluorescent peak reading (-20 dB to +8 dB)
 Features MMS (micro-computer music selector); vertical load; mic/line; separate 3-position bias/EQ switches
 Tape #1 TDK SA
 R/P resp. 30 Hz to 17 kHz
 S/N 67 dB (w/NR); 57 dB (w/o NR)

RS-M63

Price \$450
 Heads 3 (HPF; Sendust/ferrite)
 Flutter 0.05%
 Play resp. 20 Hz to 20 kHz
 Fast-forward 90 sec (C-60)
 Rewind 90 sec (C-60)
 Input sens. 60 mV (line); 0.25 mV (mic);
 Output level 650 mV
 Impedance 2.7K ohms

A Note on Prices

Prices shown in these pages are manufacturers' or importers' suggested retail values, updated as is feasible by press time. They may be subject to variation in different locales and to discounts among different retailers.

Min. load 22K ohms
 Meters 2-color fluorescent peak-reading (-20 dB to +8 dB)
 Features Line/mic mixing; separate bias/EQ switches; cue/review; double Dolby; vertical load; fine bias adjustment
 Tape #1 Metal
 R/P resp. 30 Hz to 17 kHz, ± 3 dB
 Tape #2 TDK SA
 R/P resp. 30 Hz to 16 kHz, ± 3 dB
 S/N 67 dB (w/NR); 57 dB (w/o NR)

RS-M33

Price \$350
 Heads 2 (1 HPF R/P; 1 ferrite erase)
 Flutter 0.05%
 Play resp. 30 Hz to 17 kHz
 Fast-forward 90 sec (C-60)
 Rewind 90 sec (C-60)
 Noise red. Dolby
 Input sens. 60 mV (line); 0.25 mV (mic)
 Output level 650 mV
 Impedance 22K ohms
 Min. load 22K ohms
 Meters Peak-reading fluorescent bar graph meters (-20 dB to +8 dB)
 Features Vertical drive; memory auto play system; timer standby; oil-damped cassette-eject door; 3-position bias and equalization selectors
 Tape #1 CrO₂
 R/P resp. 30 Hz to 17 kHz
 S/N 57 dB/67 dB (w/NR)

RS-M22

Price \$300
 Heads 2 (LH and ferrite)
 Flutter 0.06%
 Play resp. 30 Hz to 16 kHz
 Fast-forward 90 sec (C-60)
 Rewind 90 sec (C-60)
 Noise red. Dolby
 Input sens. 60 mV (line); 0.25 mV (mic)
 Output level 650 mV
 Impedance 2.2K ohms
 Min. load 22K ohms
 Meters Peak-reading fluorescent bar graph meters (-20 dB to +8 dB)
 Features Vertical drive; rewind auto play; 3-

position bias and equalization selectors; oil-damped cassette-eject door

Tape #1 TDK SA
R/P resp. 30 Hz to 16 kHz
S/N 57 dB/67 dB (w/NR)

RS-M18

Price \$250
Heads 2 (LH; ferrite)
Flutter 0.061%
Play resp. 30 Hz to 16 kHz
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 420 mV
Impedance 2K ohms
Meters Peak reading fluorescent bar graph (-20 dB to +8 dB)
Features Front-loading vertical drive; rewind auto play; 3-position bias and selectors
Tape #1 TDK SA
R/P resp. 30 Hz to 16 kHz
S/N 66 dB (w/NR); 56 dB (w/o NR)

RS M-7

Price \$175
Heads 2 (LH; ferrite)
Flutter 0.08 (WRMS)
Play resp. 30 Hz to 15 kHz
Fast-forward 86 sec (C-60)
Rewind 86 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 420 mV
Impedance 1K ohms
Meters 2 VU (-20 dB to +5 dB)
Features Front load vertical drive
Tape #1 TDK SA
R/P resp. 30 Hz to 15 kHz
S/N 66 dB (w/NR); 56 dB (w/o NR)

Models also available

RS-M68, \$550; RS-M44, \$400;
RS-M11, \$200

TOSHIBA

Toshiba America, Inc.
280 Park Ave.
New York, N.Y. 10017

PC-5460

Price \$370
Heads 2 (Sendust)
Flutter 0.05%
Play resp. 20 Hz to 18 kHz, ± 3 dB
Fast-forward 105 sec (C-60)
Rewind 105 sec (C-60)
Noise red. Dolby
Input sens. 70 mV (line); 0.25 mV (mic)
Output level 500 mV
Impedance 50 ohms
Separation 40 dB
Meters 2 VU; peak-reading LED (-20 dB to +4 dB)
Features Peak-hold VU meter function; editor/fade control; Dolby FM; feather-touch tape control
R/P resp. 20 Hz to 18 kHz, ± 3 dB
S/N 69 dB (with NR)
THD 0.07%

PC-4460

Price \$300

Heads 2 (hard permalloy)
Flutter 0.05%
Play resp. 30 Hz to 16.5 kHz, ± 3 dB
Fast-forward 105 sec (C-60)
Rewind 105 sec (C-60)
Noise red. Dolby
Input sens. 70 mV (line); 0.25 mV (mic)
Output level 500 mV
Impedance 50 ohms
Separation 40 dB
Meters 2 VU; peak-reading LED
Features Soft-touch tape control; Dolby FM
R/P resp. 30 Hz to 16.5 kHz, ± 3 dB
S/N 69 dB
THD 1%

PC-2460

Price \$170
Heads 2 (hard permalloy)
Flutter 0.1%
Play resp. 30 Hz to 14 kHz, ± 3 dB
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 70 mV (line); 0.25 mV (mic)
Output level 500 mV
Impedance 50K ohms
Separation 30 dB
Meters 2 VU (-20 dB to +4 dB)
R/P resp. 30 Hz to 14 kHz, ± 3 dB
S/N 65 dB
THD 2%

Models also available

PC-3460, \$230

UHER

Mineroff Electronics, Inc.
946 Downing Road
Valley Stream, N.Y. 11580

CR-240

Price \$1,211
Heads 2
Flutter 0.15%
Play resp. 30 Hz to 16 kHz, ± 2 dB
Fast-forward 60 sec (C-90)
Rewind 60 sec (C-90)
Noise red. Dolby
Input sens. 750 mV (line); 0.2 mV (mic); 1.5 mV car radio input
Output level 775 mV
Impedance 1K ohms; also 2V at 8 ohms
Min. load 4 ohms
Separation 45 dB
Erasure -70 dB
Meters 2 peak-reading (-25 dB to +3 dB)
Features Built-in power amps, speaker, mic; photo-electronic control; ALC; remote; sync
Tape #1 TDK SA
R/P resp. 30 Hz to 16 kHz, ± 2 dB
S/N 58 dB/66 dB
Tape #2 TDK AD

Models also available

CG-362, \$1,119; CR-210, \$990

YAMAHA

Yamaha International Corp.
P.O. Box 6600
Buena Park, Calif. 90620

TC-1000

Price \$650
Heads 2 (Sendust)
Flutter 0.05%
Play resp. 30 Hz to 18 kHz, ± 3 dB

Fast-forward 70 sec (C-60)
Rewind 70 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.25 mV (mic)
Output level 340 mV
Separation 30 dB (1 kHz)
Erasure 60 dB (1 kHz)
Meters 2 VU; peak-reading (-40 dB to +5 dB)

Features Mic/line mixing; dual line output; universal headphone amp; bias and EQ adjustment

Tape #1 LH
R/P resp. 30 Hz to 16 kHz, ± 3 dB
THD 1%
THD ref. lvl. 1 kHz
Tape #2 CrO₂
R/P resp. 30 Hz to 18 kHz, ± 3 dB
S/N 60 dB/69 dB
THD 1.6%
THD ref. lvl. 1 kHz

TC-920B

Price \$600
Heads 2 (Sendust)
Flutter 0.03%
Fast-forward 75 sec (C-60)
Rewind 75 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.3 mV (mic)
Output level 340 mV
Separation 30 dB (1 kHz)
Erasure 60 dB at 400 Hz
Meters 2 VU; Switches (-30 dB to +2 dB)
Tape #1 LH
R/P resp. 30 Hz to 15 kHz, ± 3 dB
THD 1%
THD ref. lvl. 160 nWb/m
Tape #2 CrO₂
R/P resp. 30 Hz to 18 kHz, ± 3 dB
S/N 69 dB (w/NR); 60 dB (w/o NR)
S/N ref. lvl. JIS
THD 1.6%
THD ref. lvl. 160 nWb/m

TC-720

Price \$450
Heads 3 (ferrite)
Flutter 0.06%
Play resp. 40 Hz to 15 kHz, ± 3 dB
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.3 mV (mic)
Output level 400 mV
Separation 30 dB (1 kHz)
Erasure 60 dB
Meters 2 VU (-20 dB to +5 dB)
Tape #1 CrO₂
R/P resp. 40 Hz to 15 kHz, ± 3 dB
S/N 66 dB (w/NR); 57 dB (w/o NR)
S/N ref. lvl. (JIS)
THD 2%
THD ref. lvl. 160 nWb/n
Tape #2 LH
R/P resp. 40 Hz to 13 kHz, ± 3 dB

Models also available

TC-520, \$320; TC-320, \$240

A Note on Prices

Prices shown in these pages are manufacturers' or importers' suggested retail values, updated as is feasible by press time. They may be subject to variation in different locales and to discounts among different retailers.

Speaker Systems

ACCULAB

Acculab
8116 Deering Ave.
Canoga Park, Calif. 91304

440

Price \$250
Dimensions 25½H x 14¼W x 11D
Weight 38 lbs.
Type Acoustic suspension
Drivers 12" woofer; 3⅝" midrange; 2¾" tweeter; 3½" piezo supertweeter
Response 33 Hz to 30 kHz, ±4 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 3.3 Hz; 7.5 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 50 watts (17 dBW)
Features Controlled dispersion

340

Price \$220
Dimensions 25½H x 14¼W x 11D
Weight 39 lbs.
Type Acoustic suspension
Drivers 12" woofer; 3⅝" midrange; 2¾" tweeter
Response 33 Hz to 18.5 kHz, ±4 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 3.3 Hz; 7.5 kHz
Impedance 8 ohms
Min. power 4 watts (6 dBW)
Max. power 40 watts (16 dBW)
Features Controlled dispersion

220

Price \$150
Dimensions 22½H x 13W x 10½D
Weight 26 lbs.
Type Acoustic suspension
Drivers 10" woofer; 2¾" tweeter
Response 40 Hz to 18.5 kHz, ±4.5 dB re 90 dB SPL at one meter at one watt
Crossover 6.5 kHz
Impedance 8 ohms
Min. power 4 watts (6 dBW)
Max. power 20 watts (13 dBW)
Features Controlled dispersion

Models also available

320, \$175

ACOUSTAT

Acoustat Corp.
3101 S.N. 1st Terrace
Ft. Lauderdale, Fla. 33315

Acoustat Monitor

Price \$3,000/pr.
Dimensions 62H x 37W x 19D at pedestal; 8½D at top
Weight 110 lbs.
Type Full-range electrostatic
Drivers 4 full-range electrostatic drivers per unit

Response 30 Hz to 20 kHz, ±3 dB re 110 dB SPL at 1 meter
Min. power Contains integral amplifier
Controls Overall gain and high-frequency gain (on amplifier)
Features Integral self-contained Servo-Charge amplifiers specially designed for high-capacitance load characteristics of electrostatic transducers

Monitor Three

Price \$2,335
Dimensions 62H x 30W x 19D
Weight 85 lbs.
Type Full-range electrostatic
Drivers 3 full-range electrostatic drivers per unit

Response 30 Hz to 20 kHz, ±3 dB re 110 dB SPL at 1 meter
Controls Overall gain; high frequency gain (on amplifier)

Models also available

Monitor Four, \$3,000

ACOUSTIC 626

Acoustic Control Corp.
7949 Woodley Ave.
Van Nuys, Calif. 91406

648

Price \$749
Dimensions 29H x 23W x 21D
Weight 110 lbs.
Type Vented
Drivers Two 15" woofers; midrange horn and driver; 3½" dome tweeter

Response 35 Hz to 22 kHz, ±3 dB
Crossover 2 kHz; 8 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW) at 8 ohms
Controls Midrange; tweeter
Features Circuit breaker protection on tweeter

626

Price \$319
Dimensions 24H x 16W x 11D
Weight 40 lbs.
Type Vented
Drivers 12" woofer; 5" midrange; 3½" dome tweeter

Response 35 Hz to 22 kHz, ±3 dB
Crossover 1.2 kHz; 6 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW) at 8 ohms
Controls Midrange; tweeter
Features Circuit breaker protection for midrange and tweeter

ACOUSTICAL ENGINEERING

Acoustical Engineering
P.O. Box 60221
Sunnyvale, Calif. 94088

Mach IV

Price \$995
Dimensions 41H x 42W x 30D (at sides)
Weight 150 lbs.
Type Corner horn
Drivers 15" woofer; 8" midrange; two horn tweeters
Response 16 Hz to 20 kHz, ±5 dB
Crossover 400 Hz; 2.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls L-pad
Features Walnut finish with black grille-cloth

Mini Corner Horn

Price \$495
Dimensions 24H x 18W x 12D (at sides)
Weight 75 lbs.
Type Corner horn
Drivers 8" woofer; 4" midrange; horn tweeter
Response 32 Hz to 18 kHz
Crossover 800 Hz; 5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 60 watts (17.75 dBW)
Controls L-pad
Features Same as Mach IV

The "Mule"

Price \$295
Dimensions 24H x 13½W x 12D
Weight 35 lbs.
Type Vented
Drivers 10" woofer; 4" midrange; horn tweeter
Response 40 Hz to 18 kHz, ±5 dB
Crossover 800 Hz; 5 kHz
Impedance 8 ohms
Min. power 5 watts (5 dBW)
Max. power 40 watts (16 dBW)
Controls Tweeter potentiometer
Features Dark wood finish with black grille cloth

Models also available

5, \$795 (in flat black finish, \$695)

ACOUSTI-PHASE

Acousti-Phase
P.O. Box 207
Proctorsville, Vt. 05153

Disco II

Price \$449.95
Dimensions 29H x 18W x 15 ½D
Weight 75 lbs.
Type Bass reflex
Drivers 15" woofer; 2 midrange horns; 4 super horn tweeters
Response 28 Hz to 30 kHz, ±3 dB
Crossover 900 Hz; 3 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW)

Max. power 200 watts (23 dBW)
Features High gloss black finish; side mount carrying handles; slide casters; accepts ¼" phone plug connection

PHASE III+

Price \$309.95
Dimensions 25H x 15W x 14D
Weight 47 lbs.
Type Bass reflex
Drivers 12" woofer; 5" midrange; 1" Mylar dome tweeter
Response 32 Hz to 20 kHz, ±3 dB
Crossover 700 Hz; 4.5 kHz
Impedance 4 to 8 ohms
Min. power 10 watts (10 dBW) continuous
Max. power 100 watts (20 dBW)
Controls Tweeter
Features Circuit breaker; also available in solid-wood butcher-block cabinet for \$359.95

Phase Monitor

Price \$189.95
Dimensions 25H x 15W x 14D
Weight 47 lbs.
Type Bass reflex
Drivers 12" woofer; 1" Mylar dome tweeter
Response 38 Hz to 20 kHz, ±3 dB
Crossover 2 kHz
Impedance 4 to 8 ohms
Min. power 10 watts (10 dBW)
Max. power 70 watts (18.5 dBW)
Controls Tweeter
Features Circuit breaker

Microphase

Price \$99.95
Dimensions 17½H x 10½W x 8D
Weight 19 lbs.
Type Bass reflex
Drivers 6½" woofer; 1" Mylar dome tweeter
Response 48 Hz to 20 kHz, ±4.5 dB
Crossover 1.6 kHz
Impedance 4 to 8 ohms
Min. power 5 watts (7 dBW)
Max. power 30 watts (14.75 dBW)

Models also available

Phase II, \$229.95; Phase I, \$139.95

ACOUSTIQUE 3A
Acoustique 3A International, Inc.
871 Montée de Liesse, St. Laurent
Montreal, P.Q., Canada

TRIPHONIC SYSTEMS

Reference

Price \$2,900
Dimensions 47H x 13W x 13D
Weight 110 lbs.
Type Acoustic pressure feedback bi-amplified
Drivers Two 11" special woofers; 8" cone and 2" dome midrange; Equiphase flat ribbon tweeter
Response 20 Hz to 40 kHz, ±3 dB re 94 dB SPL at 1 meter at 1 watt
Crossover 150 Hz; 1.8 kHz; 6 kHz
Impedance 100 ohms
Controls Room control adjustment
Features Pre-amplifier required; anechoic response supplied with speaker

TR-1000 Bass Module

Price \$1,800
Dimensions 47H x 27W x 12D
Weight 220 lbs.
Type Acoustic pressure feedback
Drivers Three 11" feedback woofers
Response 30 Hz to 100 kHz, ±1.5 dB
Crossover 100 Hz
Impedance 400 ohms
Controls Rock/linear switch; efficiency adjustment
Features Unit is in coffee-table configuration; includes 150-watt (21.75 dBW) built-in amplifier, microphone, and VU meter

Atom 2 Triphonic Satellite

Price \$600/pr.
Dimensions 19H x 9W x 3D
Weight 10 lbs.
Type Peripheral laminar decompression
Drivers 8" midrange; flat-ribbon tweeter
Response 100 Hz to 40 kHz, ±2 dB
Crossover 6 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 150 watts (21.75 dBW)
Features Time-aligned; laminated back wave through flat tunnel

Andante Linear

Price \$679
Dimensions 18H x 12W x 8D
Weight 50 lbs.
Type Acoustic pressure feedback
Drivers 11" special woofer; 2" dome midrange; ¾" ferrofluid dome tweeter
Response 25 Hz to 30 kHz, ±3 dB re 93 dB SPL at 1 meter at 1 watt
Crossover 400 Hz; 6 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 80 watts (19 dBW)
Controls Room control; 4-position equalizer
Features 120 watt (20.75 dBW) built-in amplifier; anechoic response supplied with speaker

Allegro

Price \$539
Dimensions 37H x 13W x 13D
Weight 100 lbs.
Type Acoustic doublet (3A patent)
Drivers Two 11" woofers; 6 ¾" cone midrange; 2 horn tweeters
Response 50 Hz to 20 kHz, ±3 dB re 94 dB SPL at 1 meter at 1 watt
Crossover 800 Hz; 6 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 150 watts (21.75 dBW)
Features High efficiency; anechoic response supplied with speaker

Apogee Monitor

Price \$449
Dimensions 31H x 12W x 13D
Weight 45 lbs.
Type Dynamic
Drivers 11" woofer; 1¾" dome midrange driver; ¾" 3A hemispheric ferrofluid dome tweeter
Response 45 Hz to 30 kHz
Crossover 1.2 kHz; 7 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 80 watts (19 dBW)
Features Time-aligned

Allegretto Mk II

Price \$375
Dimensions 31H x 12W x 12D
Weight 34 lbs.
Type Bass reflex

Drivers Woofer; 10" horn midrange; horn tweeter
Response 55 Hz to 22 kHz, ±3 dB re 94 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz; 6 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 80 watts (19 dBW)
Controls Midrange
Features Controlled damping; anechoic response supplied with speaker

Alphase

Price \$179
Dimensions 21H x 10W x 10D
Weight 32 lbs.
Type Dynamic
Drivers 8" woofer; ¾" dome tweeter
Response 55 Hz to 30 kHz
Crossover 5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 50 watts (17 dBW)
Features Time-aligned

Models also available

TR-1200 Bass Module, \$1,665;
TR-800 Bass Module, \$1,300;
Atom 3 Triphonic Satellite, \$660/pr.; Andante Master Control, \$1,000; Adagio, \$559; Prelude, \$499; Auditorat, \$299; Apogee Mk II, \$249; Alto, \$219

ACUSTA CRAFT

Acusta Craft
P.O. Box 12030
Shawnee Mission, Kans. 66212

CV-19

Price 249 (kit); \$299 (assembled)
Dimensions 44H x 16½W x 12¾D
Weight 95 lbs.
Type Vented
Drivers 12" woofer; two 6" midrange drivers; horn tweeter
Response 42 Hz to 15 kHz, ±3 dB re 96 dB SPL at 1 meter at 1 watt
Crossover 400 Hz; 4 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW)
Max. power 200 watts (23 dBW)
Controls None
Features Constant-voltage crossover networks

CVW-10 Bass Module

Price \$239 (kit); \$299 (assembled)
Dimensions 21½H x 21W x 21D
Weight 70 lbs.
Type Vented
Drivers Two 10" woofers
Response 50 Hz to 100 Hz, ±3 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 100 Hz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 250 watts (24 dBW)
Controls None
Features Constant-voltage crossover

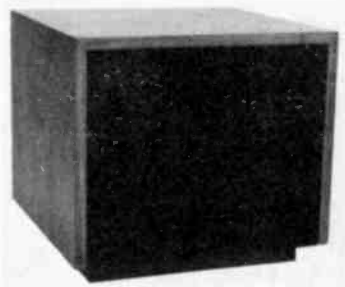
CVS-3 Satellite Panel

Price \$224 (kit); \$285 (assembled)
Dimensions 42H x 17W x 5½D
Weight 55 lbs.
Type Acoustic suspension
Drivers 10" woofer; 6" midrange; horn tweeter
Response 65 Hz to 15 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 400 Hz; 4 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 175 watts (22 dBW)
Controls None



Acoustique 3A Allegro

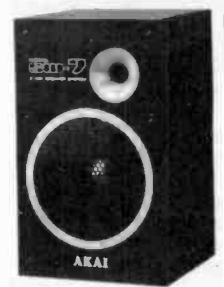
Acusta Craft CVM-3



Adcom GFW-1



ADS L-810 Series II



Akai SW-7

Features Constant-voltage crossover networks; slimline panel styling

CV-15

Price \$165 (vinyl kit); \$185 (walnut kit); \$215 (walnut assembled)
Dimensions 30H x 16½W x 11¼D
Weight 60 lbs.
Type Vented
Drivers 10" woofer; 6" midrange; horn tweeter
Response 42 Hz to 15 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt
Crossover Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 175 watts (22.5 dBW)
Controls None
Features Constant-voltage crossover networks

CVS-2 Satellite Panel

Price \$125 (kit); \$150 (assembled)
Dimensions 21½H x 12W x 5½D
Weight 24 lbs.
Type Acoustic suspension
Drivers 8" woofer; 6" midrange; 1" dome tweeter
Response 70 Hz to 20 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt
Crossover Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 125 watts (21 dBW)
Controls None
Features Constant-voltage crossover networks; slimline panel styling

Model 10

Price \$64 (vinyl kit); \$74 (walnut kit); \$90 (walnut assembled)
Dimensions 18¾H x 11¾W x 9½D
Weight 30 lbs.
Type Acoustic suspension
Drivers 8" woofer/midrange; 1" dome tweeter
Response 65 Hz to 20 kHz, ±3 dB re 92 dB SPL at 1 meter at 1 watt
Crossover Impedance 1.5 kHz
Min. power 8 ohms
Max. power 10 watts (10 dBW)
Controls None
Features Constant-voltage crossover network

Models also available

CV-18, \$249 (kit); \$299 (assembled); CVW-12 Bass Module, \$180 (kit). \$240 (assembled); CV-14, \$120 (vinyl kit); \$135 (walnut kit); \$160 (walnut assembled); CV-12, \$90 (vinyl kit); \$105 (walnut kit); \$130 (walnut assembled); CVS-1 Satellite Panel, \$65 (kit); \$85 (assembled); Model 6, \$55 (kit); \$75 (assembled)

ADCOM

Adcom Co.
 11A Jules Lane
 New Brunswick, N.J. 08901

GFW-1 Subwoofer

Price \$229.95 (vinyl); \$289.95 (walnut)
Dimensions 15 ½H x 17 ½W x 17 ½D
Weight 36 lbs.
Type Infinite baffle
Drivers 10" long-throw woofer
Response 22 Hz to 150 Hz, ±3 dB re 86 dB SPL at 1 meter at 1 watt
Crossover Impedance 4 ohms
Min. power 20 watts (13 dBW)
Max. power 120 watts (20.75 dBW)
Features Two-way passive crossover built in; terminals for input from amp and output to satellites; a phasing switch provided to increase installation flexibility; compact, end-table styled

ADS
 Analog & Digital Systems, Inc.
 One Progress Way
 Wilmington, Mass. 01887

L-630

Price \$285
Dimensions 25¾H x 14 13/16W x 11¾D
Weight 42 lbs.
Type Acoustic suspension
Drivers 1" soft-dome tweeter; 1½ soft-dome midrange; 10" woofer
Response 22 Hz to 22 kHz, ±5 dB re 91 dB SPL at 1 meter at 1 watt
Crossover Impedance 650 Hz; 4 kHz
Min. power 8 ohms nominal, 6 ohms minimum
Max. power 200 watts (23 dBW)
Features Optional black metal base

520

Price \$150
Dimensions 21¾H x 12¼W x 10¼D
Weight 30 lbs.
Type Acoustic suspension
Drivers 8" woofer; 1" soft-dome tweeter
Response 26 Hz to 22 kHz, ±5 dB re 91 dB SPL at 1 meter at 1 watt
Crossover Impedance 1.5 kHz
Min. power 8 ohms
Max. power 10 watts (10 dBW)
Features Fused tweeter; drivers flush-mounted

SERIES II

ADS 810

Price \$370
Dimensions 25½H x 14¼W x 11¾D
Weight 46 lbs. 8 oz.
Type Acoustic suspension
Drivers Two 8" woofers; 2" soft-dome midrange; ¾" soft-dome tweeter
Response 35 Hz to 23 kHz, ±3 dB; 20 Hz to 30 kHz, ±5 dB
Crossover Impedance 550 Hz; 4 kHz
Min. power 6 ohms
Max. power 200 watts (23 dBW)
Features Optional speaker stand; drivers flush-mounted for minimum diffraction

ADS 2001

Price \$599/pr.
Dimensions 4¼H x 6¾W x 4½D
Weight 4 lbs.
Type Acoustic suspension
Drivers 4" woofer; 1" dome tweeter
Response 70 Hz to 20 kHz, ±3 dB; 50 Hz to 22 kHz, ±5 dB
Crossover Impedance 2.5 kHz (electronic)
Min. power 47K ohms
Max. power 60 watts (17.75 dBW) continuous for woofer; 20 watts (13 dBW) continuous for tweeter (built-in)
Controls Tweeter
Features Blamplified miniature speaker for 12V operation

300C

Price \$150
Dimensions 8½H x 5¾W x 5¼D
Weight 7 lbs.
Type Acoustic suspension
Drivers 5¼" woofer; 1" soft-dome tweeter
Response 40 Hz to 23 kHz, ±5 dB re 90 dB SPL at 1 meter at 1 watt
Crossover Impedance 2.5 kHz
Min. power 4 ohms
Max. power 5 watts (7 dBW)
Features Solid aluminum miniature speakers with swivel brackets for car installation

300

Price \$145
Dimensions 8½H x 5¾W x 5½D
Weight 7 lbs.
Type Acoustic suspension
Drivers 5¼" woofer; 1" soft-dome tweeter
Response 40 Hz to 23 kHz, ±5 dB re 90 dB SPL at 1 meter at 1 watt
Crossover Impedance 2.5 kHz
Min. power 4 ohms
Max. power 5 watts (7 dBW)
Features Solid aluminum loudspeaker

420
Price \$115
Dimensions 20H x 11¼W x 8½D
Weight 24 lbs.
Type Acoustic suspension
Drivers 7" woofer; 1" soft-dome tweeter
Response 30 Hz to 22 kHz, ±5 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 75 watts (18.75 dBW)
Features Fused tweeter; drivers flush-mounted

Models also available

620, \$200; ADS 910, \$720; ADS 710, \$285; ADS 2002, \$470/pr.; 200C, \$118; ADS 200, \$113

ADVENT

Advent Corp.
195 Albany St.
Cambridge, Mass. 02139

Powered Advent

Price \$499
Dimensions 28¾H x 14¾W x 13D
Weight 70 lbs.
Type Blamplified acoustic suspension
Drivers 10" woofer; 1¾" dome tweeter
Crossover 1.5 kHz
Controls Input sensitivity; bass boost (below 100 Hz); treble boost and cut (above 3 kHz)
Features Integral amplifier with infrasonic filter

New Advent

Price \$179 (wood cabinet); \$155 (vinyl-clad utility cabinet)
Dimensions 25¾H x 14¾W x 11½D
Weight 44 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1¾" dome tweeter
Response 30 Hz to 15 kHz, ±3 dB re 89 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz
Min. power 15 watts (11.75 dBW) continuous
Max. power Available upon request
Controls 3-way high-frequency balance switch

Advent/1

Price \$120; (wood cabinet, \$135)
Dimensions 22H x 13¼W x 9¼D
Weight 30 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1¾" dome tweeter
Response 30 Hz to 15 kHz, ±5 dB re 89 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power Available upon request

Advent/2

Price \$89
Dimensions 19½H x 11¼W x 7½D
Weight 18 lbs. 4 oz.
Type Acoustic suspension
Drivers 9" woofer; two 1½" cone tweeters
Response 40 Hz to 15 kHz, ±5 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz
Impedance 8 ohms

Min. power 10 watts (10 dBW)
Max. power Available upon request

Models also available

Advent/4 System, \$178 to 188/pr.; Advent/3, \$65; 400, \$35

AKAI

Akai America, Ltd.
2139 E. Del Amo Blvd.
P.O. Box 6010
Compton, Calif. 90224

SW-177 II

Price \$395
Dimensions 27¼H x 17¼W x 12¼D
Weight 46 lbs.
Type Dynamic
Drivers 15" woofer; 5¼" midrange; two 1¾" tweeters
Response 25 Hz to 20 kHz, ±3 dB
Crossover 700 Hz; 5 kHz
Impedance 8 ohms
Min. power 40 watts (16 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter

SW-137 II

Price \$200
Dimensions 23¼H x 13½W x 11¼D
Weight 26 lbs.
Type Dynamic
Drivers 10" woofer; 5" midrange; 1¾" tweeter
Response 40 Hz to 20 kHz, ±3 dB
Crossover 1.2 kHz; 5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 40 watts (16 dBW)
Controls Midrange

SW-7

Price \$160/pr.
Dimensions 8¾H x 5½W x 5½D
Weight 11 lbs./pr.
Drivers 5" woofer; 2" horn tweeter
Response 55 Hz to 22 kHz
Crossover 10 kHz
Impedance 4 ohms
Max. power 40 watts (16 dBW)

Models also available

SW-157 II, \$295; SW-127, \$125; S-82, \$90/pr.

ALLISON

Allison Acoustics, Inc.
7 Tech Circle
Natick, Mass. 01760

Allison: One

Price \$420
Dimensions 40H x 19W x 10¾D
Weight 67 lbs.
Type Dynamic, acoustic suspension.
Drivers Two 10" woofers; two 3½" midrange units; two 1" tweeters
Response Complete specifications available on request
Crossover 350 Hz; 3.75 kHz
Impedance 8 ohms
Min. power 30 watts (14.75 dBW) per channel for 100 dB SPL

Max. power Depends on program material; 400 watts (26 dBW)/channel amps may be used with music input

Controls Combined mid/high frequency balance switch

Features Stabilized Radiation Loading* enclosure design; Convex Diaphragm mid and tweeter units; full warranty for five years (*covered by U.S. and foreign patents)

Electronic Subwoofer

Price \$290
Dimensions 2H x 14¼W x 4¾D
Features Three low-frequency boost curves with turnover (+3 dB) points at 35.5 Hz, 41 Hz, and 48 Hz; infrasonic and ultrasonic filters slope at 18 dB/octave below 20 Hz and above 20 kHz; A-weighted S/N is better than 100 dB

Allison: Four

Price \$195
Dimensions 11H x 19¾W x 10D
Weight 23 lbs., 8 oz.
Type Dynamic, acoustic suspension
Drivers 8" woofer; two 1" tweeters
Response Complete specifications available on request
Crossover 2 kHz
Impedance 8 ohms
Min. power 30 watts (14.75 dBW) per channel for 100 dB SPL
Max. power Depends on program material; 200 watts (23 dBW)/channel amps may be used with music input
Controls Combined mid/high frequency balance switch
Features Stabilized Radiation Loading* enclosure design; Convex Diaphragm tweeters; full warranty for five years (*covered by U.S. and foreign patents)

Allison: Five

Price \$160
Dimensions 11H x 18½W x 10D
Weight 21 lbs.
Type Dynamic, acoustic suspension
Drivers 8" woofer; 1" tweeter
Response Complete specifications available on request
Crossover 2 kHz
Impedance 4 ohms
Min. power 15 watts (11.75 dBW) per channel for 97 dB SPL
Max. power 100 watts (20 dBW)
Controls High-frequency balance switch
Features Stabilized Radiation Loading* enclosure design; Convex Diaphragm mid and tweeter units; full warranty for five years (*covered by U.S. and foreign patents)

Allison: Six

Price \$125
Dimensions 11¼H x 11¼W x 11¼D
Weight 17 lbs.
Type Dynamic, acoustic suspension
Drivers 8" woofer, 1" tweeter
Response Complete specifications available on request
Crossover 2 kHz
Impedance 4 ohms
Min. power 15 watts (11.75 dBW) per channel for 97 dB SPL
Max. power 100 watts (20 dBW)
Controls High-frequency balance switch
Features Stabilized Radiation Loading* enclosure design; Convex Diaphragm mid and tweeter units; full warranty for five years (*covered by U.S. and foreign patents)

Models also available

Allison: Two, \$350; Allison: Three, \$290

ALTEC LANSING
Altec Corp.
1515 S. Manchester Ave.
Anaheim, Calif. 92803

Nineteen

Price \$799.95
Dimensions 39H x 30W x 21D
Weight 143 lbs.
Type Bass reflex; vented
Drivers 15" bass; compression driver mounted to sectoral horn with the new Tangerine® Radial phase plug
Response 30 Hz to 20 kHz
Crossover 1.2 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 65 watts (18 dBW)
Controls High mid-frequency attenuator
Features Hand-rubbed oiled walnut or oak

Fourteen

Price \$499.95
Dimensions 30H x 21W x 16½D
Weight 77 lbs.
Type Bass reflex; vented
Drivers 12" bass driver; Tangerine® Radial phase plug; compression driver mounted to Mantaray constant directivity horn
Response 35 Hz to 20 kHz, 95 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 75 watts (18.75 dBW)
Controls High/mid-frequency attenuator
Features Automatic power control to 200 watts; hand-rubbed, oiled walnut cabinet

Nine Series II

Price \$359.95
Dimensions 26½H x 17½W x 15D
Weight 56 lbs.
Type Bass reflex; vented
Drivers 12" bass; 5" cone tweeter; 6½" mid-frequency
Response 40 Hz to 20 kHz (93 dB SPL)
Crossover 800 Hz; 7 kHz
Impedance 8 ohms
Min. power 12 watts (10.75 dBW)
Max. power 60 watts (17.75 dBW) continuous
Controls High/mid-frequency attenuator
Features Hand-rubbed oiled oak

Santana II

Price \$299.95
Dimensions 19W x 25½H x 16D
Weight 57 lbs.
Type Bass reflex; vented
Drivers 12" bass; 5" frame cone tweeter
Response 40 Hz to 20 kHz
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 12 watts (10 dBW)
Max. power 45 watts (16.5 dBW)
Controls High-frequency attenuator
Features Hand-rubbed oiled walnut with composition slate top

One Series II

Price \$129.95
Dimensions 21½H 12W x 11D
Weight 26 lbs.
Type Acoustic suspension; sealed
Drivers 8" bass; 4" cone tweeter
Response 50 Hz to 20 kHz, 89 dB SPL at 1 meter at 1 watt
Crossover 3.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)

Max. power 30 watts (14.75 dBW)
Controls High-frequency attenuator
Features Hand-rubbed oiled walnut

Models also available

Eighteen, \$749.95; Seven Series II, \$269.95; Five Series II, \$199.95; Three Series II, \$169.95

AMERICAN ACOUSTICS LAB

AAL Speaker Systems
629 W. Cermak Road
Chicago, Ill. 60616

APOLLO SERIES

Apollo 8853

Price \$159
Dimensions 37H x 13W x 11D
Weight 39 lbs.
Type Ported
Drivers Two 8" foam surround woofers; 2" cone phenolic ring
Response 25 Hz to 22 kHz
Crossover 1 kHz; 5 kHz
Impedance 16 ohms
Min. power 5 watts (7 dBW)
Max. power 55 watts (17.5 dBW)

Apollo 2712

Price \$119
Dimensions 27H x 16W x 11D
Weight 36 lbs.
Type Vented
Drivers 12" foam surround woofer; 5¼" cone midrange; 2" cone phenolic ring tweeter
Response 25 Hz to 22 kHz
Crossover 1 kHz; 5 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 40 watts (16 dBW)
Features Acoustiload Porting System

CLASSIC SERIES

Classic 120

Price \$349
Dimensions 35H x 14W x 11D
Weight 58 lbs.
Type Acoustic suspension
Drivers Two 10" foam surround woofers; 5" cone midrange; 3" cone tweeter
Response 25 Hz to 20 kHz
Crossover 1 kHz; 7 kHz
Impedance 16 ohms
Min. power 10 watts (10 dBW)
Max. power 120 watts (20.75 dBW)
Controls Front-mounted midrange and tweeter controls for Infinite tonal balance
Features Walnut veneer cabinet; see-through grilles; white cones with molded frames

Classic 110

Price \$199
Dimensions 23H x 14W x 11D
Weight 34 lbs.
Type Acoustic suspension
Drivers 10" foam surround woofer; 5" cone midrange; 3" cone tweeter
Response 30 Hz to 20 kHz
Crossover 1 kHz; 7 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 55 watts (17.5 dBW)
Controls Front-mounted midrange and tweeter controls for infinite tonal balance
Features Walnut veneer cabinet; see-through grilles; white cones with molded frames

DISCO SERIES

Super Jock

Price \$625
Dimensions 57H x 24W x 28D
Weight 205 lbs.
Type Horn labyrinth
Drivers 15" accordion surround woofer; 8 x 18 radial horn w/60 wt. compression driver; four 3-inch solid-state piezoelectric tweeters
Response 30 Hz to 25 kHz
Crossover 1.2 kHz; 7 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 300 watts (24.75 dBW)
Features Vinyl-covered cabinet with front latched cover

Disco Tower, Series II

Price \$450
Dimensions 46¼H x 21W x 16D
Weight 135 lbs.
Type Ported
Drivers 15"/12" foam surround woofers; four 3" solid-state piezoelectric tweeters
Response 30 Hz to 25 kHz
Crossover 1.5 kHz; 7 kHz
Features Vinyl-covered cabinet and removable shipping cover

PRO SERIES

Pro RH-9040

Price \$900
Dimensions 41H x 19W x 32D
Weight 83 lbs.
Type Direct radiating
Response 400 Hz to 10 kHz
Impedance 8 ohms
Max. power 100 watts (20 dBW)

Pro MT-70

Price \$450
Dimensions 11¼H x 30W x 11¼D
Weight 45 lbs.
Type Direct radiating
Response 1.2 kHz to 25 kHz
Impedance 8 ohms
Max. power 60 watts (17.75 dBW)

Pro MA-14

Price \$325
Dimensions 11¼H x 30W x 11¼D
Weight 38 lbs.
Type Direct radiating
Drivers Fourteen solid-state tweeters
Response 7 kHz to 25 kHz
Max. power 250 watts (24 dBW)

Pro MS-12

Price \$210
Dimensions 23H x 16W x 16D
Weight 35 lbs.
Type Direct radiating
Drivers 12" accordion surround woofer; 3" solid-state piezoelectric tweeter
Response 100 Hz to 20 kHz
Crossover 5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 100 watts (20 dBW)

STUDIO SERIES

Studio 400

Price \$239
Dimensions 35H x 14½W x 11½D
Weight 48 lbs.
Type Acoustic suspension
Drivers Two 10" foam surround woofers;

5¼" cone midrange; 3" solid-state piezoelectric supertweeter
Response 25 Hz to 25 kHz
Crossover 1 kHz; 5 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 75 watts (18.75 dBW)
Controls Front-mounted midrange and tweeter controls for infinite tonal balance

Studio 100

Price \$129
Dimensions 22½H x 12½W x 9D
Weight 23 lbs.
Type Acoustic suspension
Drivers 8" foam surround woofer; 3" solid-state piezoelectric supertweeter
Response 35 Hz to 25 kHz
Crossover 4 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 35 watts (15.5 dBW)
Controls Front-mounted tweeter control for infinite tonal balance

Models also available

Apollo 2915, \$169; Apollo 830, \$49; Classic 112, \$299; CLASSIC 108, \$149; PRO W-215, \$875; PRO W-212, \$640; PRO BH-15, \$510; Pro MS-212, \$370; Pro SC-410, \$320; Studio 500, \$259; Studio 300, \$199; Studio 50, \$99

AR Acoustic Research 10 American Drive Norwood, Mass. 02062

AR-14

Price \$180
Dimensions 25H x 14W x 10¾D
Weight 35 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1" soft-dome tweeter
Response 44 Hz to 22 kHz, ±2 dB re 86 dB SPL at 1 meter at 1 watt
Crossover 1.3 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW) for 100 dB SPL in average 1,500-cu.-ft. room
Max. power Safe on normal speech and music with amplifiers of up to 100 watts (20 dBW) continuous power per channel
Controls 3-position tweeter
Features Full 5-year warranty on performance

AR-25

Price \$220/pr.
Dimensions 11¾H x 21½W x 7 21/32D
Weight 24 lbs.
Type Acoustic suspension
Drivers 8" woofer; 1¼" tweeter
Response 48 Hz to 22 kHz, ±2 dB re 86 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW) for 100 dB SPL in average 1,500-cu.-ft. room
Max. power Safe on normal speech and music with amplifiers of up to 100 watts (20 dBW) continuous power per channel
Controls One 2-position switch for high-range control
Features Full 5-year warranty on performance

VERTICAL SERIES

AR-9

Price \$750
Dimensions 53H x 15W x 16D
Weight 130 lbs.
Type Acoustic suspension
Drivers Two 12" woofers, facing sideways; 8" lower midrange; 1½" dome upper midrange; ¾" dome tweeter
Response 28 Hz to 25 kHz, ±2 dB re 87 dB SPL at 1 meter at 1 watt
Crossover 200 Hz; 1.2 kHz; 7 kHz
Impedance 4 ohms
Min. power 50 watts (17 dBW) for 104 dB SPL in average 3,000-cu.-ft. room; 15 watts (11.75 dBW) for 101 dB in 1,500-cu.-ft. room
Max. power Safe on normal speech and music on amplifiers of up to 400 watts (26 dBW) continuous power per channel
Controls Lower midrange; upper midrange; tweeter (3-position controls)
Features Full 5-year warranty; designed with AR Acoustic Blanket™ to prevent sound interference caused by cabinet reflections, and with special woofer placement to minimize adverse room effects

AR-91

Price \$400
Dimensions 31½H x 14W x 11 7/16D
Weight 53 lbs.
Type Acoustic suspension
Drivers 12" woofer; 1½" midrange; ¾" tweeter
Response 35 Hz to 25 kHz, ±2 dB re 87 dB SPL at 1 meter at 1 watt
Crossover 700 Hz; 7.5 kHz
Impedance 4 ohms
Min. power Safe on normal speech and music on amplifiers of up to 400 watts (26 dBW) continuous power per channel
Max. power Safe on normal speech and music on amplifiers of up to 200 watts (23 dBW) continuous power per channel

AR-92

Price \$300
Dimensions 31¾H x 14W x 11 7/16D
Weight 46 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1½" midrange; ¾" tweeter
Response 44 Hz to 25 kHz, ±2 dB re 87 dB SPL at 1 meter at 1 watt
Crossover 700 Hz; 7.5 kHz
Impedance 4 ohms
Min. power Safe on normal music and speech on amplifiers of up to 400 watts (26 dBW) continuous power per channel
Max. power Safe on normal music and speech on amplifiers of up to 200 watts (23 dBW) continuous power per channel
Controls Two 3-position switches for midrange and high-range level control
Features Full 5-year warranty on performance; designed with an AR Acoustic Blanket™ to prevent sound interference caused by cabinet reflections

Models also available

AR-18, \$78 ea. (sold only in pairs); AR-90, \$550

ARMSTRONG Armstrong Audio (U.S.A.) Inc. Sindell Organization 11046 Santa Monica Blvd. Los Angeles, Calif. 90025

602

Price \$300 (walnut); \$325 (teak); \$350 (rosewood)
Dimensions 24H x 10W x 12D
Weight 25 lbs.
Type Resistive-loaded
Drivers Cone woofer; dome midrange; dome tweeter
Response 55 Hz to 20 kHz, ±2 dB
Crossover 2.3 kHz; 7.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 100 watts (20 dBW)
Features Phase-corrected crossover network

620

Price \$250
Dimensions 24H x 12W x 10D
Weight 30 lbs.
Type Dynamic
Drivers Cone woofer; dome midrange; dome tweeter
Response 25 Hz to 20 kHz, ±3 dB
Crossover 475 Hz; 3 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)

AUDICO Audico, Inc. 8900 Research Blvd. Austin, Tex. 78758

SW-B Monolith TL Subwoofer

Price \$1,100
Dimensions 58H x 25W x 20D
Weight 250 lbs.
Type Transmission line
Drivers Two 10" woofers
Response 14 Hz to 200 Hz, ±2 dB re 93 dB SPL at 1 meter at 1 watt
Crossover 120 Hz
Impedance 6 ohms
Min. power 15 watts (11.75 dBW)
Max. power 400 watts (26 dBW)
Features Hand-tuned for optimum response

TDC-210

Price \$449
Dimensions 41H x 15½W x 15½D
Weight 80 lbs.
Type Vented
Drivers Two 10" woofers; 1½" midrange; 1" soft-dome tweeter
Response 40 Hz to 20 kHz, ±3 dB re 93 dB SPL at 1 meter at 1 watt
Crossover 1.2 kHz; 6 kHz
Impedance 4 ohms
Min. power 15 watts (11.75 dBW)
Max. power 200 watts (23 dBW)
Controls Midrange
Features Time-delay correction; staggered-plane mounting; phase-compensated integrating network; Mylar capacitors

A-10W

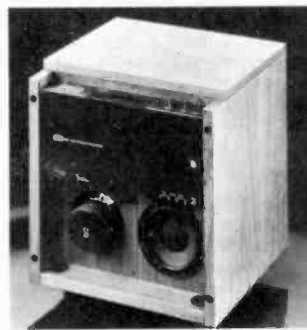
Price \$259
Dimensions 28H x 14W x 15D
Weight 60 lbs.
Type Vented



Altec Fourteen



AAL Apollo Series 8853



Audio Pro B2-50



Audioanalyst Phase Matrix M-2



Avid 330

Drivers 10" woofer; 1 1/2" midrange dome; 1" soft-dome tweeter
Response 39 Hz to 20 kHz, ± 3.0 dB re 90 dB SPL at 1 meter at 1 watt
Crossover Impedance 1.2 kHz; 6 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 125 watts (21 dBW)
Controls Midrange, tweeter
Features Mirror-image pairs; Mylar capacitors

A-10SA

Price \$169
Dimensions 38H x 13 1/2W x 9 3/4D
Weight 55 lbs.
Type Vented
Drivers 10" woofer; 1" soft-dome tweeter
Response 39 Hz to 20 kHz, ± 2 dB re 90 dB SPL at 1 meter at 1 watt
Crossover Impedance 2.2 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)
Features Mirror-image pairs; Mylar capacitors

LF-B

Price \$149; \$161 with stand
Dimensions 22H x 13 1/2W x 9 3/4D
Weight 40 lbs.
Type Vented
Drivers 8" bass/midrange drivers; 1" soft-dome tweeter
Response 37 Hz to 20 kHz, ± 2 dB re 89 dB SPL at 1 meter at 1 watt
Crossover Impedance 2.8 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 80 watts (19 dBW)
Controls Tweeter
Features Mirror-image pairs; Mylar capacitors; optional integrated stand

Models also available

TDC-110, \$249; A-10U, \$220; LF-A, \$99

AUDIOPATE

Barcus Berry, Inc.
 15461 Springdale St.
 Huntington Beach, Calif. 92649

Model 36 Add-on Tweeter

Price \$200/pr.
Dimensions 7H x 7W x 3 1/2D
Weight 4 lbs. 8 oz.

Type Non-inertial plate
Drivers Dual Barcus-Berry Audio Plate® drivers
Response 2 kHz to 20 kHz
Impedance 8 ohms
Min. power 0.5 watt (-3 dBW)
Max. power 100 watts (20 dBW)
Controls Attenuation
Features Wide-area dispersion of high frequencies; designed to supplement or replace tweeter in existing speaker systems; can be added to speaker system in minutes; no soldering or special tools needed; furnished in solid walnut cabinet

AUDIO LAB CONSORT

Unitronex Corp.
 1171 Landmeier Road
 Elk Grove Village, Ill. 60007

AL-60

Price \$359
Dimensions 26 4/5H x 17 3/10W x 12 3/5D
Weight 61 lbs. 11 oz.
Type Acoustic suspension
Drivers 12" cone woofer; 7" cone midrange; 1" wide dispersion phenolic dome tweeter
Response 32 Hz to 20 kHz
Crossover Impedance 300 Hz; 7 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 140 watts (21.5 dBW)
Controls Treble; midrange (3-position switch for normal or ± 3 dB)
Features Same as Model AL-40

AL-40

Price \$259
Dimensions 25 1/5H x 16 3/5W x 11 1/5D
Weight 48 lbs. 10 oz.
Type Passive radiator
Drivers 10" cone woofer; 10" passive radiator subwoofer; 5" cone midrange; and 1" wide dispersion phenolic dome tweeter
Response 40 Hz to 20 kHz
Crossover Impedance 800 Hz; 8 kHz
Impedance 8 ohms (nominal)
Min. power 10 watts (10 dBW)
Max. power 90 watts (19.5 dBW)
Controls Treble (3-position switch for normal or ± 3 dB)
Features Cabinet finished in real mahogany veneer with snap-on black acoustic front panel; 3/4" high density particle board; 1.5" thick polyurethane foam acoustic insulation throughout inside of cabinet; 10-year consumer warranty; completely sealed midrange providing total acoustic isolation from woofer

AL-20

Price \$129
Dimensions 21 3/10H x 11 3/5W x 9 1/10D
Weight 21 lbs.
Type Acoustic suspension
Drivers 8" woofer; 1" wide dispersion phenolic dome tweeter
Response 60 Hz to 20 kHz kHz
Impedance 8 ohms (nominal)
Min. power 10 watts (10 dBW)
Max. power 50 watts (17 dBW)
Controls Treble (3-position switch for normal ± 3 dB)

Models also available

AL-30, \$159

AUDIO PRO

Intersearch, Inc.
 4720-Q Boston Way
 Lanham, Md. 20801

A4-14

Price \$1,600/pr.
Dimensions 20 1/4H x 12 1/8W x 10 1/2D
Weight 35 lbs.
Type Bi-amplified, with built-in subwoofer
Drivers Two 5" bass drivers; 4 1/2" midrange; 1" dome tweeter
Response 30 Hz to 20 kHz, ± 3 dB re 96 dB SPL at 1 meter at 1 watt
Crossover Impedance 300 Hz; 2.5 kHz
Impedance 10K ohms
Min. power 1 watt (60 dBW)
Controls Volume, bass; bass blend; treble
Features Automatic on/off

B2-50

Price \$795
Dimensions 21 1/8H x 18 3/16W x 17 7/16D
Weight 64 lbs.
Type Subwoofer with built-in amplifier and variable crossover filters
Drivers Two 6 1/2"
Response 20 Hz to 0.2 kHz, +0, -3 dB re 96 dB SPL at 1 meter at 1 watt
Impedance 10K ohms
Min. power 0.25 microwatts (-6 dBW)
Controls Volume
Features Separate crossover frequency for subwoofer and satellites

AUDIO PULSE

Audio Pulse Electronics, Inc.
 4323 North Arden Drive
 El Monte, Calif. 91731

AP-102

Price \$175
Dimensions 35H x 8¼W x 8¾D
Weight 29 lbs. 8 oz.
Type Ducted port
Drivers Two 6" high-excursion woofers; two 2¼" cone tweeters
Response 40 Hz to 30 kHz
Impedance 8 ohms
Max. power 100 watts (20 dBW)
Features One rear-facing tweeter

AP-52

Price \$129/pr.
Dimensions 19½H x 11W x 7D
Weight 15 lbs.
Type Two-way ducted port
Drivers 6" high-excursion woofer/midrange; 2" cone tweeter
Response 80 Hz to 20 kHz
Impedance 8 ohms
Max. power 25 watts (14 dBW)
Features Tilted components

AUDIOANALYST

Audioanalyst, Inc.
South Main Street
P.O. Box 33
Terryville, Conn. 06786

Phase Matrix M-12

Price \$800
Dimensions 40H x 13½W x 16½D
Weight 115 lbs.
Type Acoustic suspension
Drivers Two 10" woofers; three 4½" midrange drivers; three 1" soft-dome tweeters; two ½" phase-match ultra-high frequency drivers
Response 24 Hz to 25 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 120 Hz; 2 kHz; 15 kHz
Impedance 4 ohms
Min. power 15 watts (11.75 dBW)
Max. power 200 watts (23 dBW)
Controls Midrange; tweeter
Features Fused; incorporates Ambient Phase Recovery System, a totally passive image enhancer, adjustable for near and far field listening conditions and is also defeatable

Anthem Array

Price \$599
Dimensions 44H x 15W x 15D
Weight 92 lbs.
Type Staggered acoustic suspension
Drivers 10" subwoofer; 10" woofer; 4½" midrange; 1" dome tweeter; 3" piezoelectric tweeter
Response 30 Hz to 20 kHz, ±3 dB re 87 dB at 1 meter at 1 watt
Crossover 120 Hz; 450 Hz; 3 kHz; 12 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 250 watts (24 dBW)
Controls Midrange; tweeter
Features Midrange fuse; tweeter fuse; piezoelectric output variable; uniform polar response at significant frequencies

M-8

Price \$399
Dimensions 27½H x 15½W x 11¾D
Weight 56 lbs.
Type Acoustic suspension
Drivers 12" woofer; 4½" midrange driver; 1" soft-dome tweeter; ½" phase-match high frequency
Response 27 Hz dB re 88 dB at 1 meter at 1 watt

Crossover 600 Hz; 2 kHz; 15 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 200 watts (23 dBW)
Controls Midrange; tweeter
Features Fused

A-400XL

Price \$359.95
Dimensions 41¾H x 17¾W x 10½D
Weight 60 lbs.
Type Vented
Drivers Four 8" woofers (two are subwoofers), two 2" midranges; two 1½" tweeters
Response 28 Hz to 20 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 150 Hz; 2 kHz; 10 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Features Drivers are aligned utilizing bi-lateral symmetry technique for minimum interference and optimum dispersion for best imaging

Phase Matrix B-1 subwoofer

Price \$279
Dimensions 27½H x 15½W x 11¾D
Weight 50 lbs.
Type Vented
Drivers 12" woofer
Response 22 Hz to 120 Hz, +3 dB re 89 dB SPL at 1 meter at 1 watt
Crossover 120 Hz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Features Built-in crossover with direct-coupled bass matrix and level-compensating high-pass filter for upper speaker system

M-2

Price \$149
Dimensions 9¾H x 6W x 7D
Weight 8 lbs.
Type Acoustic suspension
Drivers 5" woofer; 1" soft-dome tweeter
Response 46 Hz to 20 kHz, ±4 dB re 89 dB at 1 meter at 1 watt
Crossover 2 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 50 watts (17 dBW)
Features Fused; adaptable for mobile use

Models also available

A-200X, \$339.95; M-6, \$299; A-100XL, \$207; Phase Matrix M-5, \$189; M-4V-II, \$139; A-76XL, \$117.95

AUDIOMARKETING

Audiomarketing, Ltd.
652 Glenbrook Road
Stamford, Conn. 06906

Super Red Studio Monitor

Price \$1,115
Dimensions 47H x 30W x 17¾D
Weight 170 lbs.
Type Infinite baffle
Drivers 15" woofer with coaxial horn tweeter; 15" subwoofer
Response 40 Hz to 17 kHz, ±2 dB re 101 dB SPL at 1 meter at 1 watt
Crossover 100 Hz; 3 kHz
Impedance 16 ohms
Min. power 5 watts (7 dBW)
Max. power 160 watts (22 dBW)
Controls 2 kHz shelving; 8 kHz shelving
Features Mastering-lab frequency-dividing network

Little Red Studio Monitor

Price \$220
Dimensions 24H x 16W x 12D
Weight 45 lbs.
Type Acoustic suspension
Drivers 12" woofer; ¾" dome/cone tweeter
Response 40 Hz to 18 kHz, ±2 dB re 92 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 50 watts (17 dBW)
Controls 2 kHz peak/dip; 8 kHz shelving
Features Frequency-dividing network

Models also available

Big Red Studio Monitor, \$816

AUDIONICS

Audionics, Inc.
10950 S.W. 5th Ave.
Beaverton, Ore. 97005

LO-2 Foundation Bass

Price \$600
Dimensions 25H x 18W x 31D
Weight 110 lbs.
Type Vented
Drivers Two 10" push-pull
Response 32 Hz to 400 Hz, ±3 dB re 89 dB SPL at 1 meter at 1 watt
Crossover 125 Hz
Impedance 7 ohms
Min. power 70 watts (18.5 dBW)
Max. power 400 watts (26 dBW)
Controls Crossover bypass
Features Push-pull woofers cancel dynamic IM and harmonic distortion; interchangeable vents for Bessel, QB 3, and B6 alignments (B6: f3=18 Hz)

LO-2 Vanishing Point

Price \$350
Dimensions 14H x 9W x 9D
Weight 25 lbs.
Type Acoustic suspension
Drivers 6½" polymer-saturated cone; 1" damped dome
Response 75 Hz to 20 kHz, ±1.5 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 3 kHz
Impedance 7 ohms
Min. power 35 watts (15.5 dBW)
Max. power 200 watts (23 dBW)
Controls Tweeter L-pad; midwoofer L-pad controls level and Q of bass (.7 to 1.4)
Features Minimum time and space spread; Mylar/air-core crossover; resistive load at ultrasonic frequencies for low amp TIM

AUDIOTEX

GC Electronics
400 South Wyman St.
Rockford, Ill. 61101

94-1400

Price \$100
Dimensions 24H x 15W x 9¾D
Weight 29 lbs.
Type Acoustic suspension
Drivers 12" woofer; 1¾" tweeter; 4½" midrange
Response 35 Hz to 20 kHz

Crossover 2.5 kHz; 5 kHz
Impedance 8 ohms
Min. power 8 watts (9 dBW)
Max. power 45 watts (16.5 dBW)
Features Aluminum voice coil; multi-roll foam surround

94-1300

Price \$70
Dimensions 20H x 12W x 9½D
Weight 16 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1¾" tweeter
Response 40 Hz to 20 kHz
Crossover 5 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 35 watts (15.5 dBW)
Features Aluminum voice coil; multi-roll foam surround

94-1200

Price \$60
Dimensions 18½H x 11¼W x 7D
Weight 14 lbs.
Type Acoustic suspension
Drivers 8" woofer; 1¾" tweeter
Response 45 Hz to 20 kHz
Crossover 5 kHz
Impedance 8 ohms
Min. power 2 watts (3 dBW)
Max. power 25 watts (14 dBW)
Features Aluminum voice coil; multi-roll foam surround

Models also available

94-1350, \$90

AVID

Avid Corp.
10 Tripps Lane
East Providence, R.I. 02914

330

Price \$400
Dimensions 30¼H x 17W x 10¼D
Weight 66 lbs.
Type Acoustic suspension
Drivers 12" woofer; 2" dome midrange; 2" dome tweeter
Response 35 Hz to 20 kHz, ±3 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 575 Hz; 5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 250 watts (24 dBW)
Controls Midrange; tweeter
Features Auto-reset overload protective circuit; full 5-year warranty; Minimum Diffraction Loudspeaker® design; magnetic fluids for midrange and tweeter

102a

Price \$165
Dimensions 25H x 15W x 9½D
Weight 38 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1" dome tweeter
Response 44 Hz to 18 kHz, ±3 dB
Crossover 2.2 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter control
Features Fused tweeter; full 5-year warranty; Minimum Diffraction Loudspeaker® design

80a

Price \$95
Dimensions 19½H x 12W x 8½D

Weight 18 lbs.
Type Acoustic suspension
Drivers 8" woofer; 1¾" cone tweeter
Response 55 Hz to 17 kHz, ±3.5 dB re 89 dB SPL at 1 meter at 1 watt
Crossover 3 kHz
Impedance 8 ohms nominal; 7 ohms minimum
Min. power 8 watts (9 dBW)
Max. power 60 watts (17.75 dBW)
Controls None
Features Full 5-year warranty; Minimum Diffraction Loudspeaker® design

Models also available

230, \$225; 110, \$135

BANG & OLUFSEN

Bang & Olufsen
515 Busse Road
Elk Grove Village, Ill. 60007

Beovox Phase-Link M100-2

Price \$1,400/pr. (including stands)
Dimensions 29½H x 15½W x 12D
Weight 60 lbs. 8 oz.
Type Vented
Drivers 12" bass; 4" Phase-Link filler driver; 2½" dome midrange; 1½" dome tweeter; ¾" dome supertweeter
Response 35 Hz to 22 kHz, ±4 dB
Crossover 500 Hz; 2.5 kHz; 8 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW) continuous
Controls Tilt angle and height
Features Electronic protection circuit; linear phase response; rosewood veneer finish

Beovox Phase-Link M-75

Price \$980/pr. (including stands)
Dimensions 25½H x 13¼W x 10½D
Weight 37 lbs. 6 oz.
Type Pressure chamber
Drivers 10" woofer; 4½" Phase-Link filler driver; 2½" dome midrange; 1" dome tweeter
Response 38 Hz to 20 kHz, ±4 dB
Crossover 500 Hz; 4.5 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW)
Max. power 75 watts (18.75 dBW) continuous
Controls Tilt angle and height
Features Electronic protection circuitry; linear phase response; rosewood finish standard, oak or teak optional

Phase-Link P-45

Price \$450/pr.
Dimensions 25½H x 13½W x 5½D
Weight 17 lbs. 10 oz.
Type Pressure chamber
Drivers Two 5" bass; 3½" Phase-Link filler driver; 1" dome tweeter
Response 55 Hz to 20 kHz, ±4 dB
Crossover 2 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW) continuous
Max. power 45 watts (16.5 dBW) continuous
Features Wall-mounting panel speakers; linear phase response; rosewood finish standard, white optional

Beovox C-75

Price \$395/pr.
Dimensions 12 3/16H x 4 3/16W x 7 13/16D
Weight 11 lbs.
Type Log line loading
Drivers Two 4" woofers; 1" dome tweeter

Response 75 Hz to 20 kHz, ±4 dB
Crossover 2.5 kHz
Impedance 6 ohms
Min. power 10 watts (10 dBW)
Max. power 70 watts (18.5 dBW)
Features Log line loading to minimize environmentally caused acoustic problems from small rooms; linear phase response; black or brushed aluminum finish

Phase-Link S-45/2

Price \$338/pr.
Dimensions 18¼H x 10¼W x 8D
Weight 15 lbs. 6 oz.
Type Pressure chamber
Drivers 8" bass; 3½" Phase-Link filler driver; 1" dome tweeter
Response 38 Hz to 20 kHz, +4, -8 dB
Crossover 2 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW) continuous
Max. power 45 watts (16.5 dBW) continuous
Features Optional floor stands and wall-mount brackets; linear phase response; rosewood finish standard; oak, teak, or white optional

Beovox Phase-Link S-35

Price \$200/pr.
Dimensions 18¼H x 10¼W x 7¾D
Weight 13 lbs. 3 oz.
Type Pressure chamber
Drivers 8" woofer; 1" dome tweeter
Response 49 Hz to 20 kHz, ±4 dB
Crossover 3 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 40 watts (16 dBW) continuous
Features Bookshelf or wall mount; linear phase response; rosewood veneer finish

Models also available

Beovox Phase-Link S-75, \$570/pr.; Phase-Link P-30, \$330/pr.; Beovox C-40, \$295/pr.

B.E.S. GEOSTATIC

Bertagni Electroacoustic Systems, Inc.
345 Fischer St.
Costa Mesa, Calif. 92626

D-280W

Price \$997
Dimensions 76H x 26W x 3¾D
Weight 110 lbs.
Type Four low-mass, polymer diaphragms activated by drivers containing acoustic hammers
Drivers Seven (two with ferrous oil)
Response 30 Hz to 20 kHz
Crossover 1 kHz; 4 kHz; 10 kHz
Impedance 8 ohms
Min. power 30 watts (14.75 dBW)
Max. power 500 watts (27 dBW)
Controls Mid- and high-frequency
Features Total radiating surface of 3,400 sq. in.; four modules framed in aluminum and wood housing

D-190W

Price \$649
Dimensions 40½H x 26W x 3¾D
Weight 60 lbs.
Type Two low-mass, polymer diaphragms activated by drivers containing acoustic hammers
Drivers Five (two with ferrous oil)
Response 35 Hz to 20 kHz
Crossover 1 kHz; 4 kHz; 10 kHz

Impedance 4 ohms
Min. power 30 watts (14.75 dBW)
Max. power 250 watts (24 dBW)
Controls Mid- and high-frequency
Features Total radiating surface of 1,700 sq. in.; dual modules framed in aluminum and wood housing

SM-260

Price \$249
Dimensions 26 7/32H x 20 7/32 x 5D
Weight 35 lbs.
Type Single pulsating plane diaphragm
Drivers Two permanent magnet/voice coil drivers; tweeter
Response 38 Hz to 22 kHz, 88 dB SPL at 1 meter at 1 watt
Crossover 800 Hz; 10 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 150 watts (21.75 dBW)
Controls Midrange; tweeter
Features 360-degree omnipolar dispersion; 850-sq. in. radiating surface; resettable circuit protector

SM-250

Price \$169
Dimensions 25 13/16H x 19 3/16W x 4 1/4D
Weight 26 lbs.
Type Single pulsating plane diaphragm
Drivers Two permanent magnet/voice coil drivers
Response 40 Hz to 19 kHz, 88 dB SPL at 1 meter at 1 watt
Crossover 800 Hz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 125 watts (21 dBW)
Features 360-degree omnipolar dispersion; 850-sq. in. radiating surface; resettable circuit protector

Models also available

D-120W, \$599; SM-270, \$339

BEVERIDGE ELECTROSTATIC SPEAKER SYSTEMS

Harold Beveridge, Inc.

505 E. Montecito St.

Santa Barbara, Calif. 93103

System 2SW-2

Price \$7,000/pr. (including direct-drive tube amplifiers for electrostatics, electronic crossovers, and solid-state amplifiers for subwoofers)
Dimensions 78H x 24W x 16D (electrostatic loudspeakers); 26H x 16 1/2W x 22D (subwoofers)
Weight 360 lbs.
Type Electrostatic and dynamic subwoofer
Drivers Electrostatic above 100 Hz; dynamic below 100 Hz
Response 20 Hz to 20 kHz, ± 3 dB
Crossover 100 Hz
Controls Beveridge control module; spectrum slope; bass environmental and lateral controls
Features Cylindrical sound emission from a single line source, 100 Hz to 18 kHz; subwoofers, one with each electrostatic loudspeaker, operating below 100 Hz

System 3 (Junior)

Price \$3,000/pr.
Dimensions 78" x 21" diameter
Weight 140 lbs.

Type Electrostatic with dynamic subwoofer
Drivers Electrostatic above 250 Hz; dynamic below 250 Hz
Response 20 Hz to 20 kHz, ± 3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 250 Hz
Impedance 8 ohms
Min. power 50 watts (17 dBW)
Max. power 500 watts (27 dBW)
Features Cylindrical sound emission from a single line source, 200 Hz to 18 kHz; system may be biamped or used with one amp

B.I.C.

B.I.C./Avnet

South Service Road
 Westbury, N.Y. 11590

TPR-600

Price \$369.95
Dimensions 41 1/2H x 15 1/4W x 15 1/4D
Weight 67 lbs.
Type Venturi loaded
Drivers 12" subwoofer; 1 1/2" compression midrange; piezoelectric tweeter
Response 93 dB SPL at 1 meter at 1 watt
Impedance 6/8 ohms
Min. power 3 watts (4.75 dBW)
Max. power 130 watts (21 dBW)
Features Total Power Radiation; non-critical speaker placement; finished on all four sides; see-through black grille supplied

B66

Price \$269
Dimensions 26 1/4H x 15 3/4W x 13 1/2D
Weight 53 lbs. 8 oz.
Type Venturi loaded
Drivers 12" woofer; 5" cone midrange; two 1 1/2" dome tweeters
Response 93 dB SPL at 1 meter at 1 watt
Crossover 400 Hz; 10 kHz
Impedance 6 ohms
Min. power 3 watts (4.75 dBW)
Max. power 100 watts (20 dBW)
Controls Tonal balance
Features Each driver individually fused; non-reflective, totally sound-transparent grille; furniture-grade walnut finish

TPR-200

Price \$219.95
Dimensions 32 3/4H x 11 1/4W x 11 1/4D
Weight 37 lbs.
Type Venturi loaded
Drivers 8" subwoofer; 1 1/2" compression midrange; piezoelectric tweeter
Response 90 dB SPL at 1 meter at 1 watt
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 75 watts (18.75 dBW)
Features Total Power Radiation; non-critical speaker placement; finished on all four sides; see-through black grille supplied

B22

Price \$135
Dimensions 22H x 13W x 10D
Weight 25 lbs.
Type Venturi loaded
Drivers 8" woofer; 5" cone midrange; 1 1/2" dome tweeter
Response 89 dB SPL at 1 meter at 1 watt
Crossover 800 Hz; 10 kHz
Impedance 6 ohms
Min. power 7 watts (8.5 dBW)
Max. power 60 watts (17.75 dBW)
Controls Balance control
Features Each driver individually fused; non-reflective, totally sound transparent grille; scuff resistant walnut-grain finish

Models also available

TPR-400, \$269.95; B44, \$179.95; B11, \$85

BML

BML Electronics, Inc.

5305 N. Ravenswood Ave.

Chicago, Ill. 60640

Sound Odyssey/Tracer 2001

Price \$879
Dimensions 64H x 26W x 8D
Weight 140 lbs.
Type Combination dual-phase coupling/7th order Butterworth
Drivers 8 1/2" woofer with two 5 1/2" bass radiators; two solid-state tweeters
Response 35 Hz to 20 kHz, ± 3 dB re 93 dB SPL at 1 meter at 1 watt
Crossover 450 Hz; 1.5 kHz; 4.5 kHz
Impedance 5/4 ohms
Min. power 40 watts (16 dBW)
Max. power 350 watts (25.5 dBW)
Features Planar column design; fuse-protected; 9' terminated transmission line; 7 tuned chambers

Sound Window/Tracer 1001

Price \$349
Dimensions 32H x 22W x 5D
Weight 40 lbs.
Type Active radiator (acoustic suspension transmission line)
Drivers 8" woofer with 8" active radiator; 3" VHF horn tweeter
Response 35 Hz to 20 kHz, ± 3 dB re 94 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz
Impedance 6/4 ohms
Min. power 20 watts (13 dBW)
Max. power 150 watts (21.75 dBW)
Features Planar column design; 4 tuned chambers

Model Ten

Price \$120
Dimensions 22H x 11W x 8D
Weight 24 lbs.
Type Tuned port
Drivers 8" woofer; 2 1/2" VHF tweeter
Response 53 Hz to 20 kHz, ± 5 dB re 94 dB SPL at 1 meter at 1 watt
Crossover 3.5 kHz
Impedance 5 or 6 ohms
Min. power 5 watts (7 dBW)
Max. power 100 watts (20 dBW)

Models also available

Model Eleven, \$199

BOSE

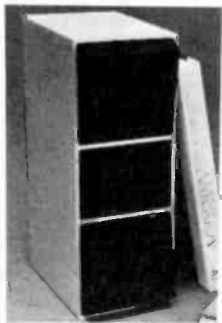
Bose Corp.

100 The Mountain Road

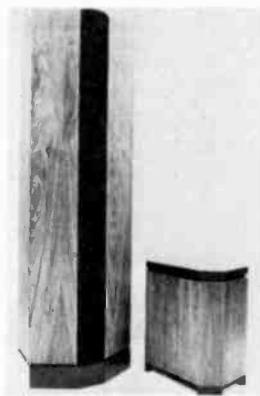
Framingham, Mass. 01701

901 Series IV

Price \$429.50
Dimensions 12 3/4H x 21W x 13D
Weight 45 lbs. 8 oz.
Type Acoustic Matrix
Drivers 9 full-range drivers with helical voice coils
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power No limitation for non-commercial applications



B & O C-75



Beveridge 2SW-1



B.I.C. Sound Span 600



Bose 901 Series IV



Braun L-1030

Controls Active equalizer: below 40 Hz attenuator; tape monitor switch; low frequency compensation control; high frequency compensation control

Features Direct/Reflecting loudspeaker system; Acoustic Matrix enclosure; sold only in stereo pairs with equalizer

501

Price \$212
Dimensions 24H x 14½W x 14½D
Weight 42 lbs.
Type Acoustic suspension
Drivers Two 3½" cone tweeters; 10" woofer
Crossover 1.5 kHz
Impedance 4 ohms
Min. power 15 watts (11.75 dBW) continuous
Max. power 100 watts (20 dBW) continuous
Controls Direct energy control allows adjustment of high-frequency dispersion

Features Direct/Reflecting loudspeaker system; tweeters are directed outside of cabinet at wall behind speaker to provide reflected sound at high frequencies; sold only in stereo pairs

301 Bookshelf Speaker

Price \$121
Dimensions 10½H x 17W x 9½D
Weight 18 lbs.
Type Vented
Drivers 8" woofer; 3" tweeter
Crossover 1.2 kHz; 3 kHz
Min. power 10 watts (10 dBW) continuous
Max. power 60 watts (17.75 dBW) continuous
Controls Direct-Energy Control for adjustment of high frequency dispersion

Features Direct/Reflecting loudspeaker system; tweeter mounted on angled panel to reflect off side wall to provide predominantly reflected sound at high frequencies; sold only in stereo pairs

Interaudio Model 1

Price \$84
Dimensions 14H x 9W x 7D
Weight 14 lbs. 8 oz.
Type Dynamic
Drivers 6" woofer; 2" cone tweeter
Crossover 2.2 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 60 watts (17.75 dBW)
Features Balanced complement of drivers makes this speaker an outstanding performer for its size and price; sold only in stereo pairs

Models also available

601, \$299.50

BOZAK

Bozak, Inc.
587 Connecticut Ave.
Norwalk, Conn. 06854

CS-310B Concert Grand

Price \$1,260 Contemporary cabinet; \$1,350 Classic cabinet (CS-410CL); \$1,375 Moorish cabinet (CS-410M)

Dimensions 52H x 36W x 19D
Weight 225 lbs.
Type Infinite baffle
Drivers Four 12" woofers; two 6½" midrange; eight 2" tweeters

Response 28 Hz to 20 kHz
Crossover 400 Hz; 2.5 kHz
Impedance 8 ohms
Min. power 60 watts (17.75 dBW)
Max. power 150 watts (21.75 dBW)
Features Factory-equipped for conventional or biamp operation

CS-4005A Symphony No. 2

Price Century cabinet, \$750
Dimensions 27¾H x 36W x 20D
Weight 150 lbs.
Type Dynamic
Drivers Two 12" woofers; 6½" midrange; eight 2" tweeters
Response 35 Hz to 20 kHz
Crossover 400 Hz; 2.5 kHz
Impedance 8 ohms
Min. power 50 watts (17 dBW)
Max. power 100 watts (20 dBW)
Features Factory-equipped for conventional or biamp operation

CS-501A Concerto 7

Price \$450
Dimensions 32H x 19¾W x 16D
Weight 95 lbs.
Type Infinite baffle
Drivers 12" variable density woofer; 6½" aluminum-cone midrange; three 2" aluminum-cone tweeters
Response 35 Hz to 20 kHz
Crossover 800 Hz; 2.5 kHz
Min. power 20 watts (13 dBW)
Max. power 75 watts (18.75 dBW)
Controls Tweeter

LS-400

Price \$300
Dimensions 25H x 18W x 13D
Weight 65 lbs.
Type Infinite baffle
Drivers 12" variable-density woofer; 6" aluminum cone midrange; 2" wide dispersion soft-dome tweeters

Response 40 Hz to 20 kHz
Crossover 800 Hz; 2.5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 80 watts (19 dBW)

LS-250

Price \$195
Dimensions 20H x 15W x 12D
Weight 46 lbs.
Type Infinite baffle
Drivers 12" variable-density woofer; 4" aluminum-cone midrange; 2" wide-dispersion soft-dome tweeter
Response 45 Hz to 20 kHz
Crossover 800 Hz; 2.5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 80 watts (19 dBW)

B-1002 Bard

Price \$159
Dimensions 21H x 12W x 18" diameter
Weight 25 lbs.
Type Infinite baffle
Drivers 8" aluminum-cone bass/midrange; 2" aluminum-cone tweeter
Response 50 Hz to 20 kHz
Crossover 1.8 kHz
Impedance 8 ohms
Min. power 12 watts (10.75 dBW)
Max. power 60 watts (17.75 dBW)
Features Completely weatherproofed; also suitable for indoor use

LS-400A

Price \$300
Dimensions 25H x 18W x 13D
Weight 65 lbs.
Type Infinite baffle
Drivers 12" treated variable-density woofer; 6" aluminum-cone midrange; 1" soft-dome tweeter
Response 40 Hz to 20 kHz ± 3 dB re 87 dB SPL at 1 meter at 1 watt
Crossover 500 Hz; 2.5 kHz
Impedance 8 ohms (nominal)
Min. power 20 watts (13 dBW)
Max. power 80 watts (19 dBW)
Controls 3-position contour switch
Features Crossover incorporates 6 dB/octave slope; driver impedance compensation

LS-70A

Price \$195
Dimensions 12H x 7½W x 7D
Weight 25 lbs.
Type Acoustic suspension
Drivers 6½" aluminum-cone woofer; 1" fabric soft-dome tweeter
Response 80 Hz to 20 kHz, ±2.5 dB re 82 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz

Impedance 8 ohms (nominal)
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)
Controls None
Features Drivers in same acoustic plane; crossover incorporates 6 dB/octave slope; drive impedance compensation

Models also available

CS-4000A Symphony No. 1, Modern cabinet, \$750 Classic cabinet, \$860 Moorish cabinet, \$890; LS-300, \$260; LS-200, \$117; LS-250A, \$195

BRAUN

Adcom Co.

11A Jules Lane

New Brunswick, N.J. 08901

L-1030

Price \$958/pr.
Dimensions 12 $\frac{1}{4}$ " H x 27 $\frac{1}{2}$ " W x 10 $\frac{1}{4}$ " D
Weight 42 lbs. ea.
Type Acoustic suspension
Drivers 10" high-compliance, long-throw woofer; 2" mid hemispherical dome; $\frac{3}{4}$ " hemispherical wide dispersion dome tweeter
Response 20 Hz to 25 kHz
Crossover 500 Hz; 3 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 100/140 watts (20/21.5 dBW)
Features Genuine walnut veneer with black aluminum grille curved corners on cabinet; highly sophisticated, computer-designed crossover; winner of 1978 CES Design and Engineering Award

L-300

Price \$429/pr.
Dimensions 10H x 6 $\frac{1}{4}$ W x 6 $\frac{3}{4}$ D
Weight 31 lbs. total
Type Acoustic suspension minispeaker
Drivers 5 $\frac{1}{2}$ " high-compliance long-throw woofer; 2" hemispherical dome midrange; $\frac{3}{4}$ " hemispherical wide dispersion dome
Response 35 Hz to kHz, 86 dB SPL at 1 meter at 1 watt
Crossover 600 Hz; 3 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 40/50 watts (16/17 dBW)
Features Computer-designed crossover

Output C

Price \$249/pr.
Dimensions 6 $\frac{3}{4}$ " H x 4 $\frac{1}{4}$ " W x 4 $\frac{3}{8}$ " D
Weight 14 lbs.
Type Acoustic suspension minispeaker
Drivers 4" long-throw high-compliance woofer; 1" hemispherical wide-dispersion dome tweeter
Response 50 Hz to 25 kHz, 90 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz

A Note on Prices

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 35/50 watts (15.5/17 dBW)
Features Aluminum cabinet; computer-designed filter network

Models also available

L-200, \$289/pr.

B & W

Anglo-American Audio

Box 653

Buffalo, N.Y. 14240

801

Price \$1,275
Dimensions 37H x 17W x 22D
Weight 97 lbs.
Type Acoustic suspension
Drivers 1 woofer; 1 midrange; 1 tweeter
Response 45 Hz to 20 kHz, ± 2 dB re 85 dB SPL at 1 meter at 1 watt
Min. power 50 watts (17 dBW)
Max. power None
Controls Mid for 1 to 3 kHz; high for over 3 kHz
Features Electron overload protect circuit

DM-6

Price \$695
Dimensions 36 $\frac{3}{4}$ " H x 16 $\frac{1}{2}$ " W x 15D
Weight 79 lbs. 8 oz.
Type Acoustic suspension
Drivers Woofer; midrange; dome tweeter
Response 50 Hz to 20 kHz, ± 3 dB
Crossover 500 Hz; 5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 350 watts (25.5 dBW)
Controls Bass; midrange; tweeter
Features Midrange and tweeter controls; linear-phase design

DM2/II

Price \$425
Dimensions 28H x 10 $\frac{5}{8}$ W x 13D
Weight 48 lbs. 8 oz.
Type Woofer (vented port); midrange (transmission line)
Drivers 1 woofer; 1 midrange; 1 tweeter
Response 50 Hz to 18 kHz, ± 3 dB
Crossover 400 Hz; 3 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 100 watts (20 dBW)
Features Fuse protection

DM-5

Price \$169
Dimensions 18H x 9W x 9D
Weight 21 lbs.
Type Acoustic suspension
Drivers Woofer/midrange; tweeter
Response 100 Hz to 20 kHz, ± 5 dB
Crossover 4.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 50 watts (17 dBW)
Features Fuse protection

Models also available

DM-7, \$595; DM-4, \$275

CAMBRIDGE/CYBERVOX
Hammond Industries, Inc.

155 Michael Drive
Syosset, N.Y. 11791

TL-200

Price \$500

Dimensions 41 $\frac{1}{2}$ " H x 13W x 17 $\frac{5}{8}$ " D
Weight 82 lbs.
Type Transmission line
Drivers 4 KEF bass; midrange; treble
Crossover 400 Hz; 3 kHz; 10 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 90 watts (19.5 dBW)
Features Each pair matched electrically and visually

CANTON

Adcom Co.

11A Jules Lane

New Brunswick, N.J. 08901

GLE-50

Price \$390/pr.
Dimensions 8 4/5H x 12 x 2/5W x 7 1/5D
Weight 17 lbs.
Type Acoustic suspension
Drivers 8" long-throw woofer on die cast light metal basket; 1 1/5" soft-dome midrange on die-cast alloy plate; 8/10" wide disperson tweeter on cast alloy plate
Response 36 Hz to 30 kHz
Crossover 800 Hz; 22 kHz
Impedance 4/8 ohms
Min. power 20 watts (13 dBW)
Max. power 50/80 watts (17/19 dBW)
Features Finished in genuine walnut veneer

GLE-40

Price \$250/pr.
Dimensions 7 1/5H x 10 3/5W x 6D
Weight 9 lbs.
Type Acoustic suspension
Drivers 6 3/10" long-throw woofer in light metal die-cast basket; $\frac{3}{4}$ " dome tweeter
Response 42 Hz to 30 kHz
Crossover 1.4 kHz
Impedance 4/8 ohms
Min. power 10 watts (10 dBW)
Max. power 45/60 watts (16.5/17.75 dBW)

C.C.L.

C.C.L. Enterprises, Inc.
30682 San Antonio St.
Haywood, Calif. 94544

3800

Price \$499.50
Dimensions 42 $\frac{1}{2}$ " H x 23 $\frac{1}{4}$ " W x 12 $\frac{1}{4}$ " D
Weight 60 lbs.
Type Infinite baffle
Drivers Two 10" woofers; 8" mid bass; 2" soft-dome midrange; 1" textile dome tweeter
Response 22 Hz to 20 kHz, 91 dB SPL at 1 meter at 1 watt
Crossover 125 Hz; 700 Hz; 5 kHz
Impedance 4 ohms
Min. power 30 watts (14.75 dBW)
Max. power 300 watts (24.75 dBW)
Controls Midrange; tweeter
Features Roll-away casters

3200

Price \$294.50
Dimensions 38 $\frac{1}{4}$ " H x 16W x 16D
Weight 30 lbs.
Type Air Suspension
Drivers 10" woofer; 2" textile dome midrange; 1" textile dome

Response 35 Hz to 20 kHz, 89 dB SPL at 1 meter at 1 watt
Crossover 700 Hz; 5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter

2000 Subwoofer

Price \$289.50
Dimensions 22¼H x 25½W x 15¼D
Weight 45 lbs.
Type Infinite baffle
Drivers Two 10" woofers
Response 22 Hz to 150 kHz, 90 dB SPL at 1 meter at 1 watt
Crossover 150 Hz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 300 watts (24.75 dBW)

2200 Satellite

Price \$104.50
Dimensions 13H x 8W x 6D
Weight 10 lbs.
Type Air suspension
Drivers 5" woofer; 1" textile dome
Response 65 Hz to 20 kHz, 90 dB SPL at 1 meter at 1 watt
Crossover 2.2 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 50 watts (17 dBW)

Models also available

3400, \$349.50; 2800, \$124.50

CELESTION

Celestion Industries, Inc.
Kuniholm Drive, Box 521
Holliston, Mass. 01746

Ditton 662

Price \$749.50
Dimensions 41¼H x 15¼W x 11 13/16D
Weight 74 lbs. 13 oz.
Type Passive radiator
Drivers 12" woofer; 2" dome midrange, 1" dome tweeter
Response 38 Hz to 20 kHz, ±3 dB re 90 dB SPL at 1 meter at 2.9 watts
Crossover 700 Hz; 4.5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 160 watts (22 dBW)
Features Fused tweeter

Ditton 551

Price \$499.50
Dimensions 28½H x 15½W x 13D
Weight 55 lbs.
Type Vented
Drivers 10" woofer; 2" dome midrange; 1" dome tweeter
Response 38 Hz to 20 kHz, ±3 dB re 90 dB SPL at 1 meter at 3.25 watts
Crossover 600 Hz; 4.5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 140 watts (21.5 dBW)
Controls Midrange and treble levels independently adjustable from 2 dB lift to 6 dB cut
Features Fused tweeter; front-panel LED to signal overload

UL-6

Price \$234.50
Dimensions 11½H x 16W x 8¾D
Weight 17 lbs. 4 oz.
Type Passive radiator

Drivers 6" woofer; 1" dome tweeter
Response 35 Hz to 28 kHz
Crossover 2.5 kHz
Impedance 4/8 ohms
Min. power 20 watts (13 dBW)
Max. power 80 watts (19 dBW)

Ditton 15XR

Price \$209.50
Dimensions 21H x 9½W x 9¼D
Weight 16 lbs. 11 oz.
Type Passive radiator
Drivers 8" woofer; 1.25" pressure tweeter
Response 30 Hz to 15 kHz
Crossover 2.5 kHz
Impedance 4/8 ohms
Min. power 10 watts (10 dBW)
Max. power 60 watts (17.75 dBW)

Models also available

Ditton 442, \$419.50; Ditton 33, \$319.50

CENTREX

Pioneer Electronics of America
1925 East Dominguez St.
Long Beach, Calif. 90810

CL-100

Price \$279.95
Dimensions 25H x 15½W x 12 4/5D
Weight 72 lbs.
Type Acoustic suspension
Drivers 12" rolled edge, high compliance woofer; 5" midrange; 2¾" cone tweeter
Response 40 Hz to 20 kHz
Impedance 8 ohms
Max. power 70 watts (18.5 dBW)
Features Removable grille

MCL-3

Price \$249.95
Dimensions 15H x 8 7/10W x 8 1/10D
Weight 31 lbs.
Type Acoustic suspension
Drivers 8" free edge woofer; 2¾" cone tweeter
Response 60 Hz to 20 kHz
Impedance 8 ohms
Max. power 50 watts (17 dBW)
Features Rosewood finish

CENTURY

General Audio Corp.
3504 Hillcroft
Houston, Texas 77008

Century 670

Price \$299.95
Dimensions 25½H x 20W x 17½D
Weight 55 lbs.
Type Ducted tuned port, bass reflex
Drivers 15" bass driver; 4½" frame cone driver; two 3½" phenolic ring tweeter
Response 20 Hz to 20 kHz
Crossover 900 Hz; 4 kHz; 6 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 80 watts (19 dBW)

Century 470

Price \$229.95
Dimensions 27H x 15½W x 10D
Weight 37 lbs.
Type Ducted tuned port, bass reflex 12" bass driver; 4½" frame cone driver; 3½" phenolic ring tweeter
Response 22 Hz to 20 kHz
Crossover 1.5 kHz; 5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 65 watts (18 dBW)

Models also available

CL-70, \$209.95; Century 370, \$199.95

CERWIN-VEGA

Cerwin-Vega
12250 Montague St.
Arleta, Calif. 91331

18SW

Price \$600
Type Vented
Drivers 18" stroker woofer
Response 25 Hz to 250 Hz, 100 dB SPL at 1 meter at 1 watt
Impedance 4 ohms
Min. power 5 watts (7 dBW)
Max. power 300 watts (24.75 dBW)
Features Subwoofer

316R

Price \$499
Dimensions 29¼H x 18¼W x 17¾D
Weight 82 lbs.
Type Vented
Drivers 15" woofer; 6½" cone midrange; 1" voice coil horn; 1" voice coil rear reflecting horn
Response 30 Hz to 17 kHz, ±4 dB re 103 dB SPL at 1 meter at 1 watt
Crossover 500 Hz; 3.5 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 150 watts (21.75 dBW)
Controls Midrange; tweeter; rear horn
Features Walnut veneer on all sides; integral pedestal

S-1

Price \$435
Dimensions 25H x 14½W x 14D
Weight 55 lbs.
Type Vented
Drivers 12" woofer; 6" cone midrange; super-Dhorn tweeter
Response 28 Hz to 20 kHz, ±4 dB re 98 dB at 1 meter at 1 watt
Crossover 300 Hz; 4 kHz
Impedance 8 ohms
Min. power 3 watts (4.75 dBW)
Max. power 200 watts (23 dBW) continuous
Controls Midrange; tweeter
Features Thermo Vapor suspension

12TR

Price \$470
Dimensions 13½H x 13½W x 40D
Weight 75 lbs.
Type Vented
Drivers 12" woofer; 6" cone midrange; rear reflecting horn-tweeter; super-Dhorn tweeter
Response 28 Hz to 20 kHz, ±4 dB re 102 dB at 1 meter at 1 watt
Crossover 250 Hz; 4 kHz

Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 100 watts (20 dBW) continuous
Controls Midrange; tweeter; rear horn
Features Tower-style speaker with rear reflecting horn

A-10

Price N/A
Dimensions 24H x 13W x 11½D
Weight 39 lbs.
Type Vented
Drivers 10" woofer; 1.1" voice coil Dhorm
Response 38 Hz to 20 kHz, ±4 dB re 92 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 40 watts (16 dBW)
Controls Tweeter level
Features Walnut veneer finish on all sides

Models also available

15 SW, \$380; 313, \$330; A-123, N/A

CHARTWELL

Reference Monitor International, Inc.
2380 C Camino Vida Roble
Carlsbad, Calif. 92008

PM-450 (passive)

Price \$2,400/pr.
Dimensions 30H x 18W x 16¼D
Type Bass reflex
Drivers 12" polypropylene woofer; 1" soft-dome tweeter
Response 40 Hz to 20 kHz, ±3 dB
Crossover 2 kHz
Impedance 8 ohms
Min. power 30 watts (14.75 dBW)
Max. power 350 watts (25.5 dBW)
Features Utilizes new low-coloration polypropylene cones

PM-410

Price \$1,500/pr.
Dimensions 35¼H x 13W x 15D
Type Bass reflex
Drivers 12" polypropylene woofer; 5¾" polypropylene midrange; 1" fabric-dome tweeter
Response 45 Hz to 22 kHz, ±3 dB
Crossover 300 Hz; 2.4 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Features Utilizes new low coloration polypropylene cones

PM-110

Price \$499/pr.
Dimensions 18H x 9½W x 8D
Type Bass reflex
Drivers 6½" bass/midrange; polypropylene bass/midrange; 1" tweeter
Response 65 Hz to 20 kHz, ±3 dB
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 80 watts (16 dBW)
Features Utilizes new low coloration polypropylene cones

Models also available

PM-210, \$850/pr.; LS3/5A, \$540 pr.

CIZEK

Cizek Audio Systems, Inc.
15 Stevens St.
Andover, Mass. 01810

KA-1 Classic

Price \$295
Dimensions 13 1/16H x 9W x 8¾D
Weight 19 lbs.
Type Acoustic suspension
Drivers 6½" woofer; 1" hemispherical dome tweeter
Response 70 Hz to 20 kHz, ±1 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz
Impedance 4 ohms
Min. power 15 watts (11.75 dBW)
Max. power 150 watts (21.75 dBW)
Features Solid Hawaiian koa wood; rounded dovetail corners; Acuthane® baffle

MG-27

Price \$295
Dimensions 29H x 17¾W x 12½D
Weight 80 lbs.
Type Acoustic suspension
Drivers Two 10" acoustic suspension, bass drivers
Response 27 Hz to 200 Hz, ±3 dB re 86 dB SPL at 1 meter at 1 watt
Crossover 200 Hz
Impedance 4 ohms
Min. power 25 watts (14 dBW)
Max. power 600 watts (27.75 dBW)
Features Direct connection to Cizek Models 1, 2, or 3, or provision for biamping

1

Price \$219
Dimensions 25H x 15½W x 9½D
Weight 45 lbs. 14 oz.
Type Dynamic
Drivers 10" acoustic suspension woofer; 1" hemispherical dome tweeter

Response 35 Hz to 17 kHz, +1.5, 2 dB re 88 dB SPL at 1 meter

Crossover 1.5 kHz
Impedance 4.25 ohms, ±0.20 ohms from 100 Hz to 15 kHz with controls in "flat" position; with Q adjustment in 0.6 position; with Q in the 1 position, impedance is 7.25 ohms

Min. power 15 watts (11.75 dBW) continuous
Max. power 150 watts (21.75 dBW)
Controls Level; contour; Q adjustment

3

Price \$99
Dimensions 19H x 11¾W x 7½D
Weight 22 lbs.
Type Acoustic suspension
Drivers 8" woofer; 1" hemispherical dome tweeter

Response 42 Hz to 17 kHz, ±2 dB re 88 dB SPL at 1 meter at 1 watt

Crossover 1.5 kHz
Impedance 4.25 ohms, ±.5 ohms, from 100 Hz to 15 kHz with Q adjustment in .5 position; with Q in the .8 position, impedance is 7.25 ohms.

Min. power 15 watts (11.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls Tweeter level; Q adjustment

Models also available

2, \$149

A Note on Prices

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

CONCEPT

Concept
1601 W. Glenlake Ave.
Chicago, Ill. 60143

CEM

Price \$595
Dimensions 45H x 18W x 15½D
Weight 102 lbs.
Type Passive radiator
Drivers Heil air-motion transformer, midrange/tweeter
Response 25 Hz to 23 kHz, ±3 dB
Crossover 1.3 kHz at 18 dB
Impedance 6 ohms
Min. power 25 watts (14 dBW)
Controls Midrange; tweeter
Features Room-resonance compensation control

CE-2

Price \$345
Dimensions 25½H ½H 14W x 14¼D
Weight 54 lbs.
Type Passive radiator
Drivers 10" cast woofer; Heil air-motion transformer
Response 35 Hz to 23 kHz, ±3 dB
Crossover 1.5 kHz at 18 dB
Impedance 6 ohms
Min. power 20 watts (13 dBW)
Controls Midrange; tweeter
Features LED power indicator

Models also available

CE-1, \$445

CRITERION

Lafayette Radio Electronics
111 Jericho Turnpike
Syosset, N.Y. 11791

Criterion 2003A

Price \$199.99
Dimensions 29½H x 17¾W x 11½D
Weight 48 lbs.
Type Vented bass reflex
Drivers 15" woofer; horn midrange; two phenolic-ring tweeters
Response 20 Hz to 20 kHz, ±10 dB
Crossover 2 kHz; 4 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 120 watts (20.75 dBW) peak
Controls Midrange; treble
Features Circuit breaker

Criterion 2001A

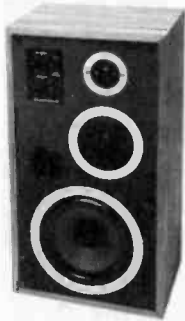
Price \$119.99
Dimensions 25H x 13½W x 12¼D
Weight 36 lbs.
Type Vented bass reflex
Drivers 10" woofer; 2" x 6" exponential horn; 2" phenolic ring tweeter
Response 30 Hz to 20 kHz, ±6 dB re 93 dB SPL
Crossover 2 kHz; 4 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 70 watts (18.5 dBW)
Controls Tweeter, midrange
Features Fused overload protection

DS-1

Price \$159.98/pr.
Dimensions 11¾H x 7½W x 6¾D



B & W 801



Celestion Ditton 551



Cizek KA-1



Concept CF-2



Design Acoustics D-8

Weight 12 lbs.
Type Acoustic suspension mini speaker system
Drivers 6½" woofer; 1" soft-dome tweeter
Response 55 Hz to 20 kHz, ±10 dB
Impedance 3 kHz
Min. power 8 ohms
Max. power 5 watts (7 dBW)
Controls 70 watts (18.5 dBW) peak
Features Genuine walnut veneer

Models also available
 Criterion 2002A, \$149.99

DAHLQUIST
Dahlquist, Inc.
27 Hanse Ave.
Freeport, N.Y. 11520

DQ-10
Price \$435
Dimensions 31½H x 30½W x 9D
Weight 50 lbs.
Type Phased array
Drivers 10" woofer; 5" midwoofer; dome midrange; dome tweeter; piezoelectric supertweeter
Response 37 Hz to 27 kHz
Crossover 400 Hz; 1 kHz; 6 kHz; 12.5 kHz
Impedance 8 ohms
Min. power 60 watts (18 dBW)
Max. power 200 watts (23 dBW) with protective fuses
Controls Tweeter
Features Low diffraction; time-delay compensated.

DQ-1W Low Bass Module
Price \$275
Dimensions 26H x 18½W x 14 4/5D
Weight 60 lbs.
Type Acoustic suspension
Drivers 13" woofer
Response 20 to 100 Hz
Crossover Depends upon main system to which it is crossed over (external crossover required)
Impedance 8 ohms
Min. power 60 watts (18 dBW)
Max. power 200 watts (23 dBW) with protective fuse
Controls None

DAYTON WRIGHT
Dayton Wright Associates, Ltd.
350 Weber St., N.
Waterloo, Ontario N2J 4E3,
Canada

XG-10
Price \$2,997/pr. (includes IM-10 matching energizer)
Dimensions 41½H x 39W x 9½D
Weight 325 lbs. (speakers plus energizer)
Type Electrostatic
Drivers 10 electrostatic cells; 1 piezoelectric tweeter
Response 40 Hz to 35 kHz, ±4 dB re 82 dB SPL at 1 meter at 1 watt
Crossover 10 kHz
Impedance 2.5 to 200 ohms
Min. power 75 watts (18.75 dBW)
Max. power 100 to 600 watts (20 to 27.75 dBW) (continuous; varies with frequency)
Controls Tweeter level; bias; cell upper cut-off
Features Three modes of use: normal, plus two external tweeter crossover points (3 kHz or 10 kHz)

DECCA
Rocelco, Inc.
1669 Flint Road
Downsview, Ont. M3J 2J7

London Ribbon Tweeter
Price \$199.50
Type Horn-coupled tweeter
Drivers Ribbon tweeter only (add-on to existing systems).
Response 1 kHz to 25 kHz
Crossover 1 kHz
Impedance 8 ohms
Max. power 30 watts (14.75 dBW)
Controls None
Features Driven element is ultra-light ribbon for fast transient response

Supertweeter
Price \$199.50
Type Ribbon tweeter in enclosure without horn
Drivers Ribbon tweeter only (add-on to existing systems)
Response 7 kHz to 30 kHz
Crossover 7 kHz
Impedance 8 ohms
Max. power 30 watts (14.75 dBW)
Controls None
Features Driven element is ultra-light ribbon for fast transient response

DENNESEN
Dennesen Electrostatic, Inc.
Box 51
Beverly, Mass. 01915

ESL-203
Price \$875
Dimensions 39½H x 10½W x 9D
Weight 60 lbs.
Type Dynamic/electrostatic
Drivers 8" Bextrene woofer; 2" dome midrange; 5 electrostatic elements in a vertical line source
Response 22 Hz to 35 kHz, ±2 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 800 Hz; 2 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 200 watts (23 dBW)

ESL-110
Price \$250
Dimensions 21½H x 8W x 7½D
Weight 20 lbs.
Type Electrostatic/dynamic acoustic suspension hybrid
Drivers Four electrostatic tweeters in vertical line source; 5" Bextrene woofer
Response 40 Hz to 35 kHz, ±2 dB re 89 dB SPL at 1 meter at 1 watt
Crossover 1.8 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)

ST
Price \$140
Dimensions 10H x 15W x 4D
Weight 20 lbs.
Type Tweeter array
Drivers 8 electrostatic tweeters.
Response 3.5 kHz to 35 kHz, ±½ dB
Crossover 3.5 kHz; 4.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power Unlimited
Controls Selection roll-in of 3.5 or 4.5 kHz
Features Open-air baffle; dipole

Models also available
 ESL-202, \$350; 180, \$220

DESIGN ACOUSTICS
Design Acoustics, Inc.
2426 Amsler St.
Torrance, Calif. 90505

D-12A
Price \$750 (walnut)
Dimensions 26H x 22W x 22D (spherical)
Weight 70 lbs.
Type Vented; acoustic suspension

Drivers Two 8" woofers; 1½" dome midrange; two 5" cone midrange; two 1" dome tweeters; three 1½" cone tweeters

Response 30 Hz to 18 kHz, ±2 dB

Crossover 650 Hz; 2 kHz

Impedance 4 ohms

Min. power 25 watts (14 dBW)

Max. power 200 watts (23 dBW)

Controls Woofer, midrange, tweeter; dispersion control for 180 degrees or 360 degrees

Features Omnidirectional speaker with choice of 180- or 360-degree radiation

D-8

Price \$590

Dimensions 44H x 16½W x 12¾D

Weight 70 lbs.

Type Acoustic suspension/passive radiator (depending on low-frequency attenuation control setting)

Drivers Two 10" long-throw woofers; 5" midrange driver; 5 high-frequency drivers (1 dome, 3 cones, 1 piezoelectric tweeter); passive radiator driven electrically as well as acoustically

Response 30 Hz to 17 kHz, ±2 dB

Crossover 600 Hz, 1.5 kHz

Impedance 4 ohms

Min. power 15 watts (11.75 dBW)

Max. power 150 watts (21.75 dBW)

Controls Woofers; midrange, tweeter

Features Wide dispersion; novel woofer level control; goes from acoustic suspension to passive radiator

D-4 A

Price \$345

Dimensions 38H x 16½W x 11D

Weight 55 lbs.

Type Acoustic suspension; vented

Drivers Two 8" long-throw woofers; 5" midrange driver; two 1½" cone tweeters; 1" dome tweeter

Response 40 Hz to 18 kHz, ±3 dB

Crossover 700 Hz; 2 kHz

Impedance 4 ohms

Min. power 20 watts (13 dBW)

Max. power 125 watts (21 dBW)

Controls Woofer; tweeter

Features Drivers arranged on trapezoid for wide dispersion; conventional appearance

D-2

Price \$220

Dimensions 34H x 12½W x 12¼D

Weight 35 lbs.

Type Vented; acoustic suspension

Drivers 10" long-throw woofer; 1" dome tweeter

Response 40 Hz to 18 kHz, ±3.5 dB

Crossover 1.5 kHz

Impedance 8 ohms

Min. power 20 watts (13 dBW)

Max. power 100 watts (20 dBW)

Controls Tweeter

Features Tilted tweeter to avoid "beaming" at high frequencies

D-1W

Price \$135

Dimensions 21¼H x 12W x 8D

Weight 19 lbs.

Type Vented; acoustic suspension

Drivers 8" long-throw woofer; 1½" cone tweeter

Response 50 Hz to 15 kHz, ±3.5 dB

Crossover 1.5 kHz

Impedance 6 ohms

Min. power 15 watts (11.75 dBW)

Max. power 30 watts (14.75 dBW)

Features Double reflection by "plug" and flared dish produces wide dispersion of high frequencies

Models also available

D-6, \$390 (base included); D-3, \$240; D-1A, \$125

DFS

DFS, Inc.
10255 S.W. Parkway
Portland, Ore. 97204

T-5

Price \$325

Dimensions 37¼H x 14¾W x 12¼D

Weight 60 lbs.

Drivers 10" woofer; 8" woofer; 5" midrange; two 2½" tweeters

Response 40 Hz to 18 kHz, ±5 dB re 98 dB SPL at 1 meter at 1 watt

J-3

Price \$215

Dimensions 27¾H x 14¾W x 12¼D

Weight 45 lbs.

Drivers Two 8" woofers; three 2½" tweeters

Response 45 Hz to 18 kHz, ±5 dB re 98 dB SPL at 1 meter at 1 watt

Max. power 100 watts (20 dBW)

Features One rear-firing, one forward-firing tweeter

J-1

Price \$125

Dimensions 20¾H x 12¾W x 10¾D

Weight 35 lbs.

Drivers 8" woofer; 2½" tweeter

Response 55 Hz to 18 kHz, ±5 dB re 96 dB SPL at 1 meter at 1 watt

Min. power 15 watts (11.75 dBW)

Max. power 40 watts (16 dBW)

Features Constructed of high density particle board and walnut veneer

Models also available

T-4, \$280; J-2, \$145

DICK WAGNER

Dick Wagner
5930 Penfield Ave.
Woodland Hills, Calif. 91367

DW-1

Price \$5,700/pr.

Dimensions 63H x 48W x 20D

Type Sealed woofer; dipolar midrange

Drivers Eight 12" woofers; sixteen 4" midrange drivers; four dome tweeters; one omni

Response 27 Hz to 19 kHz, ±5 dB

Crossover 450 Hz; 6.5 kHz (electronically variable triamp)

Impedance 8 ohms

Min. power 100 watts (20 dBW)

Max. power 1000 watts (30 dBW)

Features No pin-point listener positioning; dynamic range without distortion equal to live music; hand built and tested individually

DWD

DWD Audio Systems
3206 N. Marks St.
Fresno, Calif. 93705

ETR 12" Tower

Price \$429

Dimensions 42H x 14W x 11¾D

Type Passive radiator

Drivers 12" woofer; 5" midrange; 3" tweeter

Response 36 Hz to 20 kHz, ±4 dB re 96 dB SPL at 1 meter at 1 watt

Crossover 1.5 kHz; 7 kHz

Impedance 8 ohms

Min. power 20 watts (13 dBW)

Max. power 225 watts (23.5 dBW)

Controls Tweeter

Features Front-mounted passive radiator; ferrofluid-damped

ETR-412

Price \$279

Dimensions 26H x 14½W x 11¾D

Weight 40 lbs.

Type Passive radiator

Drivers 12" woofer; 5" midrange; 3" tweeter

Response 45 Hz to 20 kHz, ±4 dB re 94 dB SPL at 1 meter at 1 watt

Crossover 1.5 kHz; 7 kHz

Impedance 8 ohms

Min. power 15 watts (11.75 dBW)

Max. power 190 watts (22.75 dBW)

Controls Tweeter

Features Rear-mounted passive radiator; ferro fluid-damped

ETR-280

Price \$129

Dimensions 20H x 11½W x 9¾D

Weight 21 lbs.

Type Vented

Drivers 8" long-excursion woofer; 3" high-dispersion tweeter

Response 55 Hz to 20 kHz, ±4 dB re 92 dB SPL at 1 meter at 1 watt

Crossover 4.5 kHz

Impedance 8 ohms

Min. power 10 watts (10 dBW)

Max. power 90 watts (19.5 dBW)

Features Self-resetting circuit breaker

Power Panel Series

Power Panel Ten

Price \$650

Dimensions 38H x 22W x 9D

Weight 85 lbs.

Type Passive radiator

Drivers Two 10" woofers; 5" lower midrange; 2" dome midrange; 1" dome tweeter; 1" supertweeter

Response 32 Hz to 20 kHz, ±3 dB re 96 dB SPL at 1 meter at 1 watt

Crossover 750 Hz; 5 kHz

Impedance 8 ohms (nominal)

Min. power 25 watts (14 dBW)

Max. power 200 watts (23 dBW)

Controls Separate controls for three upper frequency drives

Features All ferrofluid components; 15" passive radiator (rear mounted); LED power input indicators

Models also available

ETR-410, \$249; ETR-310, \$169; Power Panel Eight, \$550

DYNACO

Dynaco, Inc.
P.O. Box 612
Needham, Mass. 02195

A-450

Price \$350

Dimensions 39H x 13W x 13D

Weight 65 lbs.
Type 4th order (passive radiator)
Drivers 10" woofer; 3" midrange; 1" dome tweeter
Response 35 Hz to 25 kHz, ± 3 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 500 Hz; 3.5 kHz 11.3 kHz
Min. power 15 watts (11.75 dBW)
Max. power 250 watts (24 dBW)
Features Time-aligned drivers

A-250

Price \$150
Dimensions 12H x 12W x 22D
Weight 36 lbs.
Type Acoustic suspension
Drivers 10" rubber edge woofer; 1" soft-dome tweeter
Response 50 Hz to 20 kHz, ± 3 dB re 89 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 65 watts (18.25 dBW)
Controls Tweeter level
Features Wide high Hz dispersion

Models also available

A-350, \$250

ELECTRO-VOICE

Electro-Voice, Inc.

656 Cecil St.

Buchanan, Mich. 49107

Sentry III, Series II

Price \$900 (optional SEQ equalizer, \$95.50)
Dimensions 28½H x 34½W x 20½D
Weight 156 lbs.
Type Vented
Drivers 15" cone low-frequency driver; 32" sectoral horn midrange; 8" sectoral horn tweeter
Response 40 Hz to 18 kHz, ± 3 dB re 99 dB SPL at 1 watt at 1 meter
Crossover 600 Hz; 3.5 kHz
Min. power 1.4 watts (0 dBW)
Max. power 50 watts (17 dBW)
Controls Tweeter
Features Tweeter protection

Interface: D, Series II

Price \$1,750/pr. (Includes equalizer)
Dimensions 32H x 21¾W x 15½D
Weight 114 lbs.
Type Vented; equalized
Drivers 12" downward-firing woofer; 6½" vented midrange; radial horn tweeter
Response 23 Hz to 20 kHz; 28 Hz to 18 kHz, ± 2.5 dB
Crossover 350 Hz; 3 kHz
Impedance 8 ohms
Min. power 1.5 watts (1.75 dBW) (90 dB SPL)
Max. power 500 watts (27 dBW) (115 dB SPL)
Controls High-frequency slope (four position) and environment (quarter space/half space)
Features Bi-amplification terminals; integral TS-1 time-variable turn-off circuit tweeter protection with indicator light; walnut veneer cabinet

Interface: B Series III

Price \$735/pr. (includes equalizer)
Dimensions 29¼H x 16W x 10½D
Weight 42 lbs.
Type Vent substitute; equalized
Drivers 12" low-frequency radiator; 8" midrange/woofer; 1½" Super-Dome tweeter with acoustic lens

Response 26 Hz to 20 kHz; 30 Hz to 18 kHz, ± 2.5 dB
Crossover 42 Hz (acoustic); 1.5 kHz (electrical)
Impedance 8 ohms
Min. power 3.6 watts (5.5 dBW) (90 dB SPL)
Max. power 250 watts (24 dBW) (108 dB SPL)
Controls High-frequency slope on equalizer
Features Walnut veneer cabinet

Interface: A Series III

Price \$550/pr.
Dimensions 24½H x 15¾W x 8¼D
Weight 30 lbs.
Type Vent substitute; equalized
Drivers 12" low-frequency radiator; 8" midrange/woofer; 1½" Super-Dome tweeter with acoustic lens
Response 29 Hz to 20 kHz; 35 Hz to 18 kHz, ± 2.5 dB
Crossover 49 Hz (acoustic); 1.5 kHz (electrical)
Impedance 8 ohms
Min. power 3.6 watt (5.50 dBW) (90 dB SPL)
Max. power 250 watts (24 dBW) (108 dB SPL)
Controls High-frequency slope on equalizer
Features Walnut veneer cabinet

Musicaster IIA

Price \$185.50
Dimensions 21H x 21½W x 8½D
Weight 31 lbs.
Type Vented
Drivers 12" dual-cone bass driver; horn tweeter
Response 80 Hz to 16 kHz, ± 4 dB re 108 dB SPL at 1 watt at 1 meter
Crossover 4 kHz; 5 kHz
Impedance 8 ohms
Min. power 1 watt (0 dBW)
Max. power 20 watts (13 dBW)
Features Weatherproof outdoor speaker

Interface: 1, Series II

Price \$120
Dimensions 21¼H x 11¾W x 9 11/16D
Weight 23 lbs.
Type Vented
Drivers 8" midrange/woofers; 1½" Super-Dome tweeter with acoustic lens
Response 47 Hz to 20 kHz; 56 Hz to 18 kHz, ± 3 dB
Crossover 76 Hz (acoustic); 1.5 kHz (electrical)
Impedance 8 ohms
Min. power 3.6 watts (5.5 dBW) (90 dB SPL)
Max. power 250 watts (24 dBW) (108 dB SPL)
Controls High-frequency slope control
Features Walnut-grained cabinet

Models also available

Interface: C, Series II, \$995/pr. (Includes equalizer); Sentry V, \$325 (optional SEQ equalizer, \$95.50); Interface: 3, Series II, \$199; Interface: 2, Series II, \$160

EPICURE

Epicure Products, Inc.

1 Charles St.

Newburyport, Mass. 01950

1000 (The Tower) Speaker

Price \$1,000
Dimensions 75H x 18W x 18D
Weight 180 lbs.
Type Acoustic suspension
Drivers Four 1" tweeters; four 8" woofers
Response 22 Hz to 20 kHz, ± 3 dB
Crossover 1.8 kHz
Impedance 8 ohms
Min. power 60 watts (17.75 dBW)

Max. power 250 watts (24 dBW)
Controls 3-position tweeter attenuator
Features System is fully omnidirectional; walnut-veneer cabinet

3.0 (Trilogy)

Price \$575
Dimensions 41¾H x 16½W x 16½D
Weight 61 lbs.
Type Acoustic suspension
Drivers One 10" bass driver; one 6" midrange; one 1" tweeter
Response 32 Hz to 20 kHz, ± 3 dB
Crossover 475 Hz; 2.6 kHz
Impedance 4 ohms
Min. power 30 watts (14.75 dBW)
Max. power 100 watts (20 dBW)
Controls Three-position L-pad tweeter attenuator
Features Truncated pyramid cabinet for minimal diffraction; low inductance amplifier load; total system resonance control

M-500

Price \$399
Dimensions 36H x 12W x 14D
Weight 50 lbs.
Type Passive radiator
Drivers One 10" bass driver; one 4" midrange; one 1" tweeter
Response 45 Hz to 20 kHz, ± 3 dB
Crossover 750 Hz; 3 kHz
Impedance 4 ohms
Min. power 15 watts (11.75 dBW)
Max. power 125 watts (21 dBW)
Features Twin "Passive Piston" bass radiators; "Focused Field" magnetic circuit in bass driver

Twenty + Speaker

Price \$275
Dimensions 29H x 18½W x 12D
Weight 64 lbs.
Type Acoustic suspension
Drivers Two 8" woofers; two 1" tweeters
Response 35 Hz to 20 kHz, ± 3 dB
Crossover 1.8 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW)
Controls Three-position tweeter attenuator switch
Features Hemispherical dispersion; walnut veneer cabinet

Fourteen

Price \$159
Dimensions 24H x 13½W x 9D
Weight 40 lbs.
Type Passive radiator
Drivers One 6" woofer; one 1" tweeter
Response 28 Hz to 20 kHz, ± 3 dB
Crossover 1.8 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 80 watts (19 dBW)
Controls Three-position tweeter control on front panel
Features 8" "Passive Piston" bass radiator with 4th order alignment; walnut veneer cabinet

Ten: W

Price \$135
Dimensions 22H x 12W x 9¾D
Weight 33 lbs.
Type Acoustic suspension
Drivers 1" tweeter; 8" woofer
Response 42 Hz to 20 kHz, ± 3 dB
Crossover 1.8 kHz
Impedance 8 ohms
Min. power 12 watts (10.75 dBW)
Max. power 75 watts (18.75 dBW)
Controls Tweeter
Features Individual frequency-response graph provided with each speaker; walnut finish (available in vinyl at \$125 as Model Ten-V)

EPI Series

M-200C

Price \$275
Dimensions 32¾H x 17W x 11D
Weight 60 lbs.
Type "Passive Piston" bass radiator
Drivers 8" woofer; 1" tweeter; 12" passive radiator
Response 36 Hz to 20 kHz, ±3 dB
Crossover 1.8 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW) continuous
Max. power 125 watts (21 dBW)
Controls Three-position tweeter attenuator switch on front panel
Features Walnut veneer cabinet

100-W

Price \$125
Dimensions 21H x 11W x 9D
Weight 25 lbs.
Type Acoustic suspension
Drivers 1" tweeter, 8" woofer
Response 45 Hz to 20 kHz, ±3 dB
Crossover 1.8 kHz
Impedance 8 ohms
Min. power 10 watts (20 dBW)
Max. power 75 watts (18.75 dBW)
Features Available in vinyl as Model 100-V for \$110

Models also available

400 Plus, \$450; Eleven, \$159; Five, \$80; 120C, \$159; 70C, \$79

ESS

ESS, Inc.

9613 Oates Drive
Sacramento, Calif. 95827

HEIL SERIES

AMT-Monitor

Price \$650
Dimensions 39¼H x 15¾W x 15¾D
Weight 103 lbs. 8 oz.
Type Passive radiator
Drivers 12" woofer; Heil air-motion transformer
Response 30 Hz to 23 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 1 kHz
Impedance 5 ohms
Min. power 20 watts (13 dBW)
Max. power 375 watts (25.75 dBW)
Controls Tweeter presence; brilliance
Features Equipped with direct inputs for biamp connection; oiled walnut cabinet

AMT-1B Bookshelf

Price \$456
Dimensions 24H x 14W x 14D
Weight 65 lbs.
Type Passive radiator
Drivers 12" woofer; Heil air-motion transformer
Response 40 Hz to 23 kHz, ±3 dB re 92 dB SPL at 1 meter at 1 watt
Crossover 1 kHz
Impedance 6 ohms
Min. power 20 watts (13 dBW)
Max. power 375 watts (25.75 dBW)
Controls Tweeter

TEMPEST SERIES

Tempest Classic

Price \$407
Dimensions 33¼H x 15½W x 15½D

Weight 55 lbs.
Type Passive radiator
Drivers 10" cone woofer; Heil air-motion transformer
Response 38 Hz to 24 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz
Impedance 5 ohms
Min. power 15 watts (11.75 dBW)
Max. power 250 watts (24 dBW)
Controls Midrange presence; brilliance
Features Oiled walnut veneer

Tempest Bookshelf-1

Price \$310
Dimensions 24H x 14W x 14D
Weight 50 lbs.
Type Passive radiator
Drivers 10" cone woofer (resin impregnated); Heil air-motion transformer
Response 42 Hz to 23 kHz, ±3 dB re 93 dB SPL at 1 meter at 1 watt
Crossover 2.4 kHz
Impedance 6 ohms
Min. power 15 watts (11.75 dBW)
Max. power 140 watts (21.5 dBW)
Controls Brilliance
Features Same as Classic

PERFORMANCE SERIES

Performance PS-4A

Price \$370
Dimensions 35H x 12½W x 12 1/10D
Weight 48 lbs.
Type Passive radiator
Drivers 10" cone woofer; Heil air-motion transformer
Response 35 Hz to 42 kHz, ±3 dB re 93 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 6 ohms
Min. power 15 watts (11.75 dBW)
Max. power 160 watts (22 dBW)
Controls Brilliance

Performance PS-9A

Price \$175
Dimensions 19¾H x 11¾W x 9¾D
Weight 23 lbs.
Drivers 8" cone woofer; Heil air-motion transformer
Response 55 Hz to 20 kHz, ±3 dB re 92 dB SPL at 1 meter at 1 watt
Crossover 2.4 kHz
Impedance 6 ohms
Min. power 10 watts (10 dBW)
Max. power 75 watts (18.75 dBW)

Models also available

AMT-1B, \$507; Tempest Bookshelf-2, \$246; Performance PS-5A, \$270; Performance PS-8A, \$205

ESTranslator
BTM Manufacturing Co.
2005 N. Lincoln Ave.
Pasadena, Calif. 91103

320

Price \$499
Dimensions 43½H x 21¾W x 4½D (top); 9½D (bottom)
Weight 47 lbs.
Type Electrostatic bi-polar
Drivers Two 10" cone woofers
Response 30 Hz to 22 kHz
Crossover 200 Hz; 1.2 kHz
Impedance 8 ohms
Min. power 35 watts (15.5 dBW)
Controls Double diaphragms; self-energizing bias

310

Price \$349
Dimensions 38H x 17¾W x 4½D (top); 9½D (bottom)
Weight 32 lbs.
Type Electrostatic bi-polar
Drivers 12" cone woofer
Response 40 Hz to 22 kHz
Crossover 200 Hz; 1.2 kHz
Impedance 8 ohms
Min. power 35 watts (15.5 dBW)
Features Same as 320

290

Price \$139
Dimensions 21¼H x 12¾W x 4½D (top); 7½D (bottom)
Weight 14 lbs.
Type Electrostatic bi-polar
Drivers 8" cone woofer
Response 70 Hz to 22 kHz
Crossover 200 Hz; 1.2 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Features Same as 320

Models also available

300, \$199

FISHER

Fisher Corp.
21314 Lassen St.
Chatsworth, Calif. 91311

ST-461

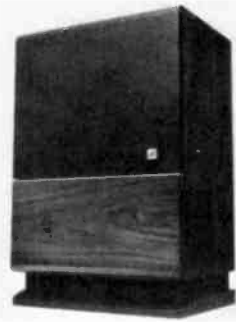
Price \$409.95
Dimensions 29¼H x 18¼W x 14½D
Weight 53 lbs.
Type Ported bass reflex
Drivers 15" woofer; two 5" midrange drivers; 3" tweeter
Response 40 Hz to 20 kHz, ±10 dB re 92 dB SPL at 1 meter at 1 watt
Crossover 1 Hz; 5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 130 watts (21.25 dBW)
Controls Treble; midrange
Features Circuit breaker

ST-450

Price \$330
Dimensions 27¾H x 17W x 13½D
Weight 44 lbs.
Type Ported bass reflex
Drivers 12" woofer; two 5" midrange drivers; 3" tweeter
Response 45 Hz to 20 kHz, ±10 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW)
Controls Treble; midrange
Features Circuit breaker

XP-95B

Price \$280
Dimensions 28H x 17½W x 12 7/8D
Weight 44 lbs.
Type Air suspension
Drivers 15" woofer; two 5" midranges; 3" flare-dome tweeter
Response 28 Hz to 20 kHz
Crossover 1 kHz; 5 kHz
Impedance 8 ohms
Min. power 8 watts (9 dBW) continuous
Max. power 75 watts (18.75 dBW) continuous
Controls Tweeter; midrange
Features Circuit breaker



Electro-Voice Interface:
D Series II



EPI 500



ESS Tempest Classic



ESTrator 320



Fisher ST-440

ST-441

Price \$280
Dimensions 25½H x 16W x 12¾D
Weight 36 lbs.
Type Ported bass reflex
Drivers 12" woofer; 5" midrange; 3" tweeter
Response 45 Hz to 18 kHz, ±10 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 5 kHz
Impedance 8 ohms
Min. power 12 watts (10.75 dBW)
Max. power 75 watts (18.75 dBW)
Controls Treble
Features Circuit breaker

ST-440

Price \$260
Dimensions 25½H x 16W x 12¾D
Weight 36 lbs.
Type Ported bass reflex
Drivers 12" woofer; 5" midrange; 3" tweeter
Response 45 Hz to 18 kHz, ±10 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 5 kHz
Impedance 8 ohms
Min. power 12 watts (10.75 dBW)
Max. power 75 watts (18.75 dBW)
Controls Treble
Features Circuit breaker

XP-335

Price \$180
Dimensions 25¼H x 16W x 11½D
Type Vented
Drivers 12" woofer; 5" midrange; 3" tweeter
Response 58 Hz to 20 kHz
Impedance 8 ohms
Max. power 70 watts (18.5 dBW)

MS-145

Price \$140
Dimensions 24½H x 14¾W x 11D
Weight 20 lbs.
Type Passive radiator
Drivers 10" woofer; 5" midrange; 3" tweeter
Response 55 Hz to 17 kHz
Crossover 1 kHz; 5 kHz
Impedance 8 ohms
Min. power 6.5 watts (8.25 dBW)
Max. power 45 watts (16.5 dBW)

ST-420

Price \$150
Dimensions 21¾H x 13¾W x 9¼D
Weight 19 lbs.
Type Passive radiator
Drivers 8" woofer; 3" tweeter
Response 50 Hz to 16 kHz, ±10 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 5 kHz
Impedance 8 ohms
Min. power 3.5 watts (5.5 dBW)
Max. power 35 watts (15.5 dBW)

MS-125A

Price \$90
Dimensions 21¾H x 13¾W x 9D
Weight 15 lbs.
Type Passive radiator
Drivers 8" woofer; 2" tweeter
Response 70 Hz to 14 kHz, ±10 dB
Crossover 6 kHz
Impedance 8 ohms
Min. power 4 watts (6 dBW)
Max. power 30 watts (14.75 dBW)

Models also available

ST-460, \$390; ST-451, \$350; ST-430, \$220; XP-330, \$160; XP-325, \$140; MS-135A, \$100; MS-115A, \$80

FMI

Fulton Electronics
 4204 Brunswick Ave. N.
 Minneapolis, Minn. 55422

100

Price \$279
Dimensions 22H x 12¼D x 9½D
Weight 31 lbs.
Type Infinite baffle
Drivers 10" long-throw woofer; four 2¼" tweeters
Response 40 Hz to 22 kHz, ±2 dB re 85 dB SPL at 1 meter at 1 watt
Crossover 950 Hz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 90 watts (19.5 dBW)
Controls Tweeter/midrange
Features American walnut veneer

80

Price \$199
Dimensions 17¾H x 9¾W x 8½D
Weight 20 lbs.
Type Infinite baffle
Drivers 8" woofer; two 2¼" tweeters
Response 50 Hz to 22 kHz, ±2 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 1.6 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 60 watts (17.75 dBW)
Features American walnut veneer

FRAZIER

Frazier, Inc.
 1930 Valley View Lane
 Dallas, Texas 75234

Eleven

Price \$1,440

Dimensions 55H x 30W x 18D
Weight 250 lbs.
Type Modified Helmholtz tuned slot
Drivers 15" woofer; 12" woofer; four 4" midranges; 2 piezoelectric tweeters
Response 16 Hz to 25 kHz, ±5 dB re 107 dB SPL at 1 meter at 1 watt
Crossover 400 Hz; 4 kHz
Impedance 4 ohms
Min. power 1 watt (0 dBW) continuous
Max. power 100 watts (20 dBW) continuous
Controls Tweeter; midrange
Features Reproduces the lowest organ notes

Frazier's "Thing"

Price \$1,074
Dimensions 50H x 24W x 16D
Weight 175 lbs.
Type Modified Helmholtz tuned slot
Drivers 12" woofer; 10" woofer; 13¾" x 4½" exponential midrange horn; 2 piezoelectric tweeters
Response 20 Hz to 25 kHz, ±5 dB re 99 dB SPL at 1 meter at 1 watt
Crossover 800 Hz; 4 kHz
Impedance 4 ohms
Min. power 1 watt (0 dBW)
Max. power 80 watts (19 dBW)
Controls Midrange; tweeter
Features High-frequency piezoelectrics stacked for column effect; large tower

Mark V-A

Price \$400
Dimensions 25¾H x 14W x 12D
Weight 55 lbs.
Type Modified Helmholtz tuned slot
Drivers 12" woofer; two 4" midranges; piezoelectric tweeters
Response 35 Hz to 25 kHz, ±5 dB re 96 dB SPL at 1 meter at 1 watt
Crossover 500 Hz; 4 kHz
Impedance 8 ohms
Min. power 1 watt (0 dBW) continuous
Max. power 50 watts (17 dBW) continuous
Controls Midrange; tweeter
Features Super bookshelf or floor-standing system

Concerto

Price \$315
Dimensions 21½H x 16W x 16D
Weight 56 lbs.
Type Modified Helmholtz tuned slot
Drivers 10" woofer; 3" x 7" compression horn; piezoelectric tweeter
Response 35 Hz to 25 kHz, ±5 dB re 96 dB SPL at 1 meter at 1 watt
Crossover 2 kHz; 4 kHz
Impedance 8 ohms
Min. power 1 watt (0 dBW) continuous
Max. power 30 watts (15 dBW) continuous

Controls Tweeter
Features Also available in black utility finish as "Capsule Monitor;" end-table height

Super Monte Carlo

Price \$132
Dimensions 19H x 10½W x 12D
Weight 31 lbs.
Type Modified Helmholtz tuned slot
Drivers 8" woofer; direct-coupled piezoelectric tweeter
Response 50 Hz to 25 kHz, ±5 dB re 93 dB SPL at 1 meter at 1 watt
Crossover 4 kHz
Impedance 8 ohms
Min. power 1 watt (0 dBW) continuous
Max. power 30 watts (15 dBW) continuous
Controls None
Features Two-way system with no crossover

Super Midget

Price \$60
Dimensions 15¾H x 6¾W x 9½D
Weight 13 lbs.
Type Modified Helmholtz tuned slot
Drivers One 4" driver
Response 50 Hz to 12 kHz, ±5 dB re 89 dB SPL at 1 meter at 1 watt
Crossover None
Impedance 8 ohms
Min. power 1 watt (0 dBW) continuous
Max. power 10 watts (10 dBW) continuous
Controls None
Features May be used with car tape players

Models also available

Seven-A, \$515; Mark IV-A, \$250; CAD-1, \$101

FRIED

Fried Products Co.
7616 City Line Ave.
Philadelphia, Pa. 19151

Super Monitor

Price \$5,000 (assembled); \$1,200 (kit)
Dimensions 56H x 35W x 12D
Weight 164 lbs.
Type Dynamic, transmission line
Drivers 12" high-flux plastic; 6" high-flux midrange; 1" high-flux Mellinex tweeter
Response 8 Hz to 27 kHz, ±2 dB
Crossover 125 Hz; 3 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 400 watts (27 dBW)
Features C satellite or woofer (specify SMW) available separately

H/2

Price \$2,100 (assembled); \$900 (kit)
Dimensions Woofer: 21H x 44W x 24D; Satellite: 11H x 8W x 6D
Weight Woofer: 175 lbs.; Satellite: 14 lbs.
Type Transmission line
Drivers 10" high-flux plastic bass driver; 5" high-flux plastic midbass; 1" Mellinex dome treble unit
Response 10 Hz to 60 kHz
Crossover 100 Hz; 3.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 200 watts (23 dBW)
Controls Impulse perspective control
Features Tilt-back stand recommended; available as an option

Model T subwoofer

Price \$1,400 (assembled); \$500 (kit)
Dimensions 21H x 44W x 24D

Weight 175 lbs.
Type Dual transmission lines
Drivers Two 10" high-flux plastic woofers
Response 10 Hz to 300 kHz, ±2 dB
Crossover Variable
Impedance 8 ohms
Min. power 15 watts (12 dBW)
Max. power 100 watts (20 dBW)
Features Three separate inputs: one for use with B/2 (first-order crossover); one for biampification; one for passive crossover from any other speaker (second-order crossover)

M/2

Price \$950
Dimensions 43H x 22W x 12D
Weight 95 lbs.
Type Transmission line
Drivers High-flux 8" plastic woofer; high flux 5" plastic midrange; 1" ultra-high-power dome tweeter
Response 10 Hz to 60 kHz
Crossover 110 Hz; 3.2 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 200 watts (23 dBW)
Controls None

R/III

Price \$500
Dimensions 28H x 16W x 15D
Weight 68 lbs.
Type Dynamic; line-tunnel enclosure
Drivers 10" high-force plasticized woofer; 5" high-force midrange; ¾" high-force dome tweeter

Response 19 Hz to 30 kHz, ±2 dB re 90 dB SPL at 1 meter at 1 watt

Crossover 125 Hz; 3.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)
Controls Impulse-perspective control
Features Stand recommended; available as an option

Model W

Price \$320
Dimensions 25H x 14W x 13D
Weight 49 lbs.
Type 8" high-force plasticized woofer; 5" high-force plasticized midrange; ¾" high-force plasticized tweeter

Drivers Dynamic; line-tunnel enclosure
Response 30 Hz to 21 kHz, ±2 dB re 90 dB SPL at 1 meter at 1 watt

Crossover 175 Hz; 3.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 200 watts (23 dBW)
Controls Impulse-perspective control
Features Tilt-back stand recommended; available as an option

B/2

Price \$300
Dimensions 12H x 8W x 7D
Weight 15 lbs.
Type Dynamic
Drivers 5" woofer; ¾" tweeter
Response 60 Hz to 30 kHz, ±2 dB
Crossover 3.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 100 watts (20 dBW)
Features Tilt-back stand recommended; available as an option

Q Speaker

Price \$140
Dimensions 19¾H x 11¾W x 9¼D
Weight 23 lbs.
Type Dynamic
Drivers 8" woofer; ¾" tweeter
Response 40 Hz to 20 kHz, ±2.5 dB

Crossover 2.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 200 watts (23 dBW)
Controls Impulse perspective control
Features Tilt-back stand recommended; available as an option

Models also available

O Subwoofer, \$600 (assembled); \$500 (kit); C, \$475 (assembled); \$300 (kit); R/II Speaker, \$400; Model A, \$190

FULTON

Fulton Electronics
4204 Brunswick Ave. N.
Minneapolis, Minn. 55422

Premiere

Price \$4,495
Dimensions 60H x 25W x 22D
Weight 300 lbs.
Type Special dynamic
Drivers 12" subwoofer; 12" midwoofer; 10" upper woofer; 8" midrange; 3 special tweeters
Response 13 Hz to 80 kHz, ±1 dB re 82 dB SPL at 1 meter at 1 watt
Crossover 39 Hz; 122 Hz; 425 Hz, 2.4 kHz; 8 kHz; 26 kHz
Impedance 8 ohms
Min. power 50 watts (17 dBW)
Max. power 400 watts (26 dBW)
Controls Woofer 1; woofer 2; midrange 1; tweeter 1; tweeter 2; supertweeter

Nuance

Price \$495
Dimensions 34H x 14W x 13D
Weight 80 lbs.
Type Infinite baffle
Drivers 10" woofer; 5" midrange; 2 special tweeters
Response 34 Hz to 42 kHz, ±1½ dB re 85 dB SPL at 1 meter at 1 watt
Crossover 760 Hz; 65 kHz; 15 kHz
Impedance 8 ohms
Min. power 35 watts (15.5 dBW)
Max. power 200 watts (23 dBW)
Controls Tweeter; midrange; woofer
Features Solid walnut veneer; smoked glass-top; can be biamped and biwired

FUNDAMENTAL RESEARCH

Fundamental Research
Success St.
Pittsburgh, Penn. 15212

"The Punch" Woofer

Price \$750
Dimensions 24H x 60W x 18D
Weight 225 lbs.
Type Bass reflex
Drivers Four 12" woofers
Response 25 Hz to 150 Hz
Impedance 4 or 8 ohms
Min. power 60 watts (17.75 dBW)
Max. power 400 watts (26 dBW)
Features Fuse; system designed purely by ear

The Infrasonix Woofer

Price \$450
Dimensions 38H x 15W x 16D
Weight 85 lbs.

Type Acoustic suspension
Drivers Two 10" woofers
Response 20 Hz to 200 Hz
Impedance 4 ohms
Min. power 60 watts (17.75 dBW)
Max. power 400 watts (26 dBW)
Features Fuse; system designed purely by ear

The Smaller Infrasonix Woofer

Price \$299
Dimensions 28H x 13W x 13D
Weight 55 lbs.
Type Acoustic suspension
Drivers 10" woofer
Response 20 Hz to 200 Hz
Impedance 8 ohms
Min. power 60 watts (17.75 dBW)
Max. power 200 watts (23 dBW)
Features Fuse; system designed purely by ear

GENESIS

Genesis Physics Corp.
Newington Park
Newington, N.H. 03801

Model 3+

Price \$389
Dimensions 37½H x 14½W x 11½D
Weight 53 lbs.
Type Passive radiator
Drivers 8" woofer, 4" midrange; 1" tweeter
Response 28 Hz to 20 kHz, ±4 dB
Crossover 800 Hz; 3 kHz
Impedance 6 ohms
Min. power 25 watts (14 dBW)
Max. power 500 watts (27 dBW)
Controls Midrange, tweeter
Features Mounting bases included; magnetic ferrofluid tweeter and midrange; walnut or oak finish

Genesis 2+

Price \$253
Dimensions 33H x 14½W x 10½D
Weight 44 lbs.
Type Passive radiator
Drivers 8" woofer with 10" passive radiator; 1" tweeter
Response 32 Hz to 20 kHz, ±4 dB
Crossover 18 Hz electrical; 45 Hz acoustic
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 150 watts (21.75)
Controls Tweeter
Features Mounting bases included; ferrofluid tweeter; walnut or oak veneer finish

Genesis Model 2

Price \$185 (walnut); \$207 (oak)
Dimensions 26½H x 14½W x 11½D
Weight 37 lbs.
Type Passive radiator
Drivers 1" tweeter; 8" woofer
Response 28 Hz to 20 kHz, ±4 dB
Crossover 45 Hz; 1.8 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls Tweeter
Features Magnetic fluid in tweeter

Genesis V-6

Price \$105
Dimensions 18H x 10¼W x 7D
Weight 19 lbs.
Type Vented
Drivers 6½" woofer; 1" tweeter
Response 52 Hz to 20 kHz, ±4 dB
Crossover 1.8 kHz

Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 75 watts (18.75 dBW)
Features Magnetic fluid in tweeter

Models also available

Genesis Model 1+, \$133 (walnut); \$147 (oak)

GLI

GLI Division of VSC Corp.
29-50 Northern Blvd.
Long Island City, N.Y. 11101

4+

Price \$1,900
Dimensions 50H x 36W x 29D
Weight 385 lbs.
Type Horn bass cabinet with separate mid/high array
Drivers Two 15" woofers with two 15" passive radiators; two 12" x 22" midrange horns; 6" x 18" horn tweeter
Response 35 Hz to 20 kHz
Crossover 750 Hz; 5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 500 watts (27 dBW)
Features Coil Guard speaker-protection circuit; heavy-duty professional construction

3+

Price \$995
Dimensions 49½H x 36W x 28¾D
Weight 240 lbs.
Type Exponential horn
Drivers Two 15" woofers; 12" x 22" midrange horn; seven 3½" solid-state tweeters
Response 35 Hz to 20 kHz
Crossover 850 Hz; 7 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 250 watts (24 dBW)
Features Coil Guard protection circuit; heavy-duty professional construction

1+

Price \$625
Dimensions 37½H x 21½W x 22½D
Weight 110 lbs.
Type Bass reflex
Drivers Two 15" woofers; 4½" x 15" midrange horn; three 3½" solid-state tweeters
Response 40 Hz to 20 kHz, ±4 dB
Crossover 975 Hz; 7 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 150 watts (21.75 dBW)
Features Coil Guard speaker protector circuit; heavy-duty professional construction

The Dwarf

Price \$775/pr.
Dimensions 20¼H x 19W x 9½D
Type Bass reflex/passive radiator
Drivers Eight 5½" mid/low drivers with 15" passive radiator; four 3½" solid-state tweeters
Response 48 Hz to 20 kHz, ±3.5 dB
Impedance 4/16 ohms
Min. power 1 watt (0 dBW)
Max. power 250 watts (24 dBW)
Features Coil Guard protection circuit; heavy-duty professional construction

Models also available

2+, \$725; The Dwarf FRA-2, \$250

GOODMANS

Goodmans Loudspeakers, Ltd.
Plessey Consumer Products (Distributor)
100 Commercial St.
New York, N.Y. 11802

Achromat Sigma

Price \$480
Dimensions 27H x 13W x 11D
Weight 44 lbs.
Type Acoustic suspension with auxiliary bass radiator
Drivers 8" bass unit; 10½" auxiliary bass radiator; 1" high frequency unit
Response 35 Hz to 23 kHz, ±5 dB re 86 dB SPL at 1 meter at 1 watt
Crossover 2.4 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 95 watts (19.75 dBW)
Features "Long throw" bass unit; pleated surround woofer; soft dome tweeter; 12-element crossover using ferrite-cored chokes; fused for protection

HE-1

Price \$480
Dimensions 34½H x 13½W x 14D
Weight 66 lbs.
Type Vented
Drivers 10" bass unit; two 5" midrange drivers; 1" ferrofluid soft-dome tweeter
Response 50 Hz to 20 kHz, ±5 dB re 93.5 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 5 kHz
Impedance 8 ohms
Min. power 3.5 watts (5.5 dBW)
Max. power 85 watts (19.25 dBW)
Features High-power voice coils; 9-element ferrite-cored crossovers; high-flux magnet systems; fused for protection

Achromat Kappa

Price \$335
Dimensions 21¼H x 10¾W x 10½D
Weight 30 lbs.
Type Acoustic suspension
Drivers 8" long-throw, pleated surround woofer; 1" soft-dome tweeter
Response 45 Hz to 23 kHz, ±5 dB re 85 dB SPL at 1 meter at 1 watt
Crossover 2.4 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 95 watts (19.75 dBW)
Features Twelve-element crossover using ferrite-cored chokes; fused for protection

Models also available

HE-2, \$420; Achromat Beta, \$250

GRAFYX-SP

Grafyx Audio Products, Inc.
310 Kirk Road
St. Charles, Ill. 60174

SP-Ten

Price \$169
Dimensions 26½H x 15W x 13½D
Weight 48 lbs.
Type Tuned port
Drivers 10" rubber surround woofer; 1" modified hard-dome tweeter
Response 35 Hz to 20 kHz, ±3 dB re 87 dB SPL

Crossover 2 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 75 watts (18½ dBW)
Features Impedance remains between 6.5 ohms and 8.5 ohms from 100 Hz to 100 kHz; tweeter gap filled with ferrofluid

SP-Eight

Price \$139
Dimensions 25H x 14W x 10D
Weight 39 lbs.
Type Tuned port
Drivers 8" rubber surround woofer; 1" modified hard-dome tweeter
Response 40 Hz to 20 kHz, ±3 dB re 86 dB SPL

Crossover 2 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 75 watts (18.75 dBW)
Features Impedance remains between 6.5 ohms and 8.5 ohms from 100 Hz to 100 kHz; tweeter gap filled with ferrofluid

SP-Six-Cone

Price \$75
Dimensions 16H x 10W x 7½D
Weight 15 lbs.
Type Tuned port
Drivers 6" rubber surround woofer; 2" cone tweeter
Response 50 Hz to 20 kHz, ±3 dB re 85 dB SPL

Crossover 2 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 35 watts (15.5 dBW)
Features Impedance remains between 6.5 ohms and 12 ohms from 100 Hz to 20 kHz

Models also available

SP-Six, \$109

GREAT WHITE WHALE

Great White Whale Dist., Inc.
 348 E. 84th St.
 New York, N.Y. 10028

Point 4

Price \$900/pr.
Dimensions 42H x 19W x 11D
Weight 90 lbs.
Type Acoustic suspension and open air
Drivers Two 10" woofers; two 8" midbass; two 5" midranges; two 1½" dome tweeters; two 1" open-baffled supertweeters
Response 20 Hz to 20 kHz, ±2.5 dB re 89 dB SPL at 1 meter at 1 watt

Crossover 80 Hz; 300 Hz; 2.5 kHz; 8 kHz
Impedance 4 ohms
Min. power 50 watts (17 dBW)
Max. power 200 watts (23 dBW)
Controls Midrange; tweeter (continuously variable from -3 to +3 dB)

Point 3

Price \$395
Dimensions 15H x 24W x 12D; 11¾H x 6¾W x 6¾D
Weight 80 lbs.
Type Acoustic suspension
Drivers 10" woofer; 5" midrange; 1" Mylar-dome tweeter
Response 20 Hz to 20 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt

Crossover 125 Hz; 4 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 200 watts (23 dBW)

Features System fusing; 2 satellites with woofer commode

HARTLEY

Hartley Products Corp.
 620 Island Road
 Ramsey, N.J. 07446

Reference

Price \$1,725
Dimensions 50¼H x 36W x 24D
Weight 300 lbs.
Type Magnetic suspension
Drivers 24" woofer; 10" midrange; 7" midrange/tweeter, 1" supertweeter

Response 16 Hz to 25 kHz
Crossover 250 Hz; 3 kHz; 7 kHz
Impedance 5 to ohms
Min. power 25 watts (14 dBW)
Max. power 300 watts (24.75 dBW)
Controls None
Features Matched pairs

Holton Tower

Price \$495
Dimensions 49½H x 20W x 14D
Weight 105 lbs.
Type Magnetic suspension
Drivers Two 10" woofers; 1" tweeter
Response 20 Hz to 25 kHz

Crossover 3 kHz
Impedance 4 ohms
Min. power 15 watts (11.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls None
Features Matched pairs

Concert Jr.

Price \$375
Dimensions 38½H x 15W x 11¾D
Weight 65 lbs.
Type Magnetic suspension
Drivers 10" woofer; 1" tweeter
Response 25 Hz to 25 kHz

Crossover 5 kHz
Impedance 5 to 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)
Controls None
Features Matched pairs

Zodiac '78

Price \$180
Dimensions 30H x 15W x 11¾D
Weight 50 lbs.
Type Mechanical suspension
Drivers 10" woofer; 1" tweeter

Response 35 Hz to 25 kHz
Crossover 35 Hz to 25 kHz
Impedance 2 kHz
Min. power 8 ohms
Max. power 5 watts (7 dBW)
Controls 100 watts (20 dBW)
Features None
Features Matched pairs

Zodiac Jr.

Price \$96
Dimensions 19H x 11½W x 7½D
Weight 45 lbs./pr.
Type Mechanical suspension
Drivers 8" woofer; 2" tweeter

Response 50 Hz to 18 kHz
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 50 watts (17 dBW)
Controls None
Features Matched pairs

Models also available

Concertmaster, \$1,380; Zodiac 300B, \$275; Zodiac 1B, \$135

HEATHKIT

Heath Co.
 Benton Harbor, Mich. 49022

AS-1348

Price \$300 (kit)
Dimensions 38H x 24W x 15D
Weight 100 lbs.
Type Acoustic suspension
Drivers 15" rear-facing woofer; two 4½" front-facing midranges; three 1" dome tweeters angle right, left, and ahead

Response 22 Hz to 22 kHz, -10 dB
Crossover 500 Hz; 3 kHz
Impedance 8 ohms
Min. power 8 watts (9 dBW)
Max. power 250 watts (24 dBW)
Controls "Room" switch to compensate for acoustic variances of listening areas and relationship of speaker to wall; two attenuation controls adjust for acoustics and source material

AS-1373

Price \$170 (kit)
Dimensions 26H x 14½W x 11½D
Weight 47 lbs.
Type Acoustic suspension
Drivers 10" woofer; 4½" midrange; 1" dome tweeter

Response 30 Hz to 22 kHz, +0, -10 dB; 40 Hz to 20 kHz, ±3 dB
Crossover 3 kHz
Min. power 10 watts (10 dBW)
Max. power 400 watts (26 dBW)
Controls Midrange; tweeter

Features Tweeter can be installed for optimum imaging with system positioned vertically or horizontally; separate midrange subenclosure; individually fused drivers

AS-1363

Price \$130 (kit)
Dimensions 23¾H x 14¼W x 11½D
Weight 40 lbs.
Type Acoustic suspension
Drivers 10" woofer; 4½" midrange; 1" dome tweeter

Response 30 Hz to 20 kHz, -10 dB
Crossover 750 Hz; 4 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 130 watts (21.25 dBW)
Controls Midrange; tweeter

AS-1332

Price \$58 (kit)
Dimensions 19½H x 10½W x 8D
Weight 15 lbs.
Type Infinite baffle
Drivers 8" woofer; 1¾" tweeter
Response 40 Hz to 20 kHz, +0, -10 dB; 50 Hz to 18 kHz, ±3 dB

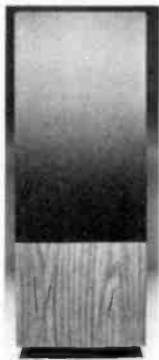
Crossover 3.4 kHz
Min. power 10 watts (10 dBW)
Max. power 400 watts (26 dBW)
Controls Tweeter
Features Individually fused drivers

Models also available

AS-1344, \$150 (kit); AS-1342, \$75 (kit)

HECO

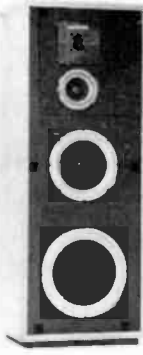
Hammond Industries, Inc.
 155 Michael Drive
 Syosset, N.Y. 11791



Fundamental Research
Large Infrasonic Woofer



Hartley Concert Jr.



Genesis 3



Hitachi HS-430



Heath AS-1348

D-100

Price \$499
Dimensions 31½"H x 15¾"W x 10¼"D
Weight 75 lbs.
Type Dynamic
Drivers 14" woofer; four 4½" midrange; 2½" x 1¾" tweeter
Crossover 800 Hz; 2 kHz
Impedance 4 ohms
Max. power 200 watts (23 dBW)
Controls Bi-amplification

HED
Cerwin Vega, Inc.
12250 Montague St.
Arleta, Calif. 91331

U-351

Price N/A
Type Vented
Drivers 15" woofer; 6" cone midrange; 1" voice coil horn tweeter
Response 32 Hz to 17 kHz, ±4 dB re 103 dB SPL at 1 meter at 1 watt
Crossover 700 Hz; 4 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter

U-321

Price N/A
Type Vented
Drivers 12" woofer; 6" cone midrange; 1" voice coil horn tweeter
Response 38 Hz to 17 kHz, ±4 dB re 98 dB SPL at 1 meter at 1 watt
Crossover 700 Hz; 4 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 60 watts (17.75 dBW)
Controls Midrange; tweeter

UT-12R

Price \$390
Type Vented
Drivers 12" woofer; 6" cone midrange; 1" voice coil horn tweeter; 6" rear reflecting cone midrange
Response 32 Hz to 17 kHz, ±4 dB re 98 dB SPL at 1 meter at 1 watt
Crossover 700 Hz; 4 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 80 watts (19 dBW)
Controls Midrange; tweeter; rear midrange
Features Tower style speaker

SW-12

Price \$280

Type Vented
Drivers 12" woofer
Response 38 Hz to 150 Hz, 90 dB SPL at 1 meter at 1 watt
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 100 watts (20 dBW)
Features Floor-facing subwoofer system

U-123

Price \$215
Type Vented
Drivers 12" woofer; 5" cone midrange; 1" voice coil horn
Response 45 Hz to 17 kHz, ±4 dB re 96 dB SPL at 1 meter at 1 watt
Crossover 700 Hz; 4 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 60 watts (17.75 dBW)
Controls Tweeter; midrange

U-10

Price \$170
Type Vented
Drivers 10" woofer; 1" voice coil Dhorn
Response 42 Hz to 20 kHz, ±4 dB re 94 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 40 watts (16 dBW)
Controls Tweeter

Models also available

U-15, \$325; U-12, \$195; U-6, \$85

HITACHI
Hitachi Sales Corp. of America
401 W. Artesia Blvd.
Compton, Calif. 90220

HS-430

Price \$400
Dimensions 26¼"H x 14½"W x 14 15/16"D
Weight 46 lbs. 3 oz.
Type Bass reflex
Response 35 Hz to 20 kHz, -15 dB
Crossover 700 Hz; 4 kHz
Impedance 8 ohms
Max. power 120 watts (20.75 dBW)
Controls Dual
Features Metal cone; gathered edge

HS-330

Price \$250
Dimensions 22½"H x 12¾"W x 12¾"D
Weight 32 lbs.
Type Acoustic suspension

Drivers 3-way, 10" gathered-edge woofer; 2½" metal-cone midrange; 1½" metal-cone tweeter
Response 40 Hz to 18 kHz, ±4 dB re 92 dB SPL at 1 meter at 1 watt
Crossover 900 Hz; 4 kHz
Impedance 6 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter

IMPACT
Unitronex Corp.
1171 Landmeier Rd.
Elk Grove, Ill. 60007

Impact 8

Price \$399
Dimensions 26 4/5"H x 17 3/10"W x 12 3/5"D
Weight 64 lbs.
Type Balanced; ducted-port speaker system with time-aligned transducers
Drivers 12" woofer; 7" midrange; 2" x 5" horn tweeter
Response 30 Hz to 23 kHz, 105 dB SPL at 1 meter at 1 watt
Crossover 300 Hz; 7 kHz
Impedance 8 ohms (nominal)
Min. power 10 watts (10 dBW)
Max. power 150 watts (21.75 dBW)
Controls Tweeter, midrange (±3 dB)

Impact 2

Price \$149
Dimensions 21 3/10"H x 11 3/5"W x 9 1/10"D
Weight 21 lbs.
Type Balanced; ducted-port speaker system with time-aligned transducers
Drivers 8" woofer/midrange; 2½" toncil horn tweeter
Response 60 Hz to 20 kHz, 98 dB SPL at 1 meter at 1 watt
Crossover 3.5 kHz
Impedance 8 ohms (nominal)
Min. power 5 watts (7 dBW)
Max. power 50 watts (17 dBW)

Models also available

Impact 4, \$199

INFINITY
Infinity Systems, Inc.
7930 Deering Ave.
Canoga Park, Calif. 91304

Reference Standard 4.5

Price \$3,300
Dimensions 64½"H x 26½"W x 14½"D

Weight 390 lbs.
Drivers Four EMIT[®] tweeters; four EMIN[®] midranges; two 12" Infinity/Watkins dual voice coil polypropylene cone woofers
Response 24 Hz to 32 kHz, ± 3 dB
Crossover 150 Hz; 5 kHz
Impedance 4 ohms
Min. power 100 watts (20 dBW)
Max. power 500 watts (27 dBW)
Features Passive crossover controls midrange and tweeter levels; electronic crossover controls bass and midrange crossover frequencies and levels; separate biamp switch on back of speaker

Reference Standard 1.5

Price \$470
Dimensions 26½H x 15W x 11D
Weight 66 lbs.
Drivers 12" Infinity/Watkins polypropylene woofer; 5" polypropylene midrange; EMIT[®] tweeter
Response 38 Hz to 32 kHz, ± 3 dB
Crossover 350 Hz; 5 kHz
Impedance 4 ohms
Min. power 66 watts (18.25 dBW)
Max. power 250 watts (24 dBW)
Features Solid oak veneer

Column II

Price \$384
Dimensions 39¾H x 14W x 12½D
Weight 85 lbs.
Type Dynamic
Drivers Two 10" woofers; 4½" cone midrange; 2 specially modified hand-treated piezoelectric tweeters
Response 35 Hz to 20 kHz, $\pm 3½$ dB
Crossover 750 Hz; 5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW) continuous
Max. power 250 watts (24 dBW) continuous
Controls Midrange; tweeters
Features Slot-loaded woofer; high-efficiency design

Quantum Jr.

Price \$299
Dimensions 25H x 14½W x 12D
Weight 50 lbs.
Type Dynamic
Drivers 12" woofer; ½" dome midrange; Infinity EMIT[®] tweeter
Response 40 Hz to 32 kHz, ± 3 dB
Crossover 600 Hz; 4 kHz
Impedance 4 ohms
Min. power 25 watts (14 dBW)
Max. power 200 watts (23 dBW)
Controls Midrange; tweeters
Features Optional metal pedestals

Qb

Price \$198
Dimensions 25H x 14½W x 12D
Weight 43 lbs.
Type Dynamic
Drivers 10" woofer; 4" midrange; Infinity EMIT[®] tweeter
Response 42 Hz to 32 kHz, ± 3 dB
Crossover 600 Hz; 4 kHz
Impedance 4 ohms
Min. power 15 watts (11.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls Midrange
Features Optional metal pedestals

Qe

Price \$119
Dimensions 18H x 12W x 10D

Weight 22 lbs.
Type Dynamic
Drivers 8" Q woofer (butyl surround); EMIT[®] tweeter
Response 47 Hz to 32 kHz, ± 3 dB
Crossover 2.5 kHz
Impedance 4 to 8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Features Rotatable tweeter; automatic mirror-imaging

Models also available

Reference Standard 2.5, \$784; 3000B, \$235; Qa, \$165

INNOTECH

Innotech Audio Systems

182 Henry St.
 Brooklyn, N.Y. 11201

D-24

Price \$427
Dimensions 36½H x 10½W x 15¾D
Weight 55 lbs.
Type Asymmetric transmission line
Drivers Two 5" Bextrene woofers; one 1½" Mylar dome midrange; 1" Mylar dome tweeter
Response 35 Hz to 20 kHz, ± 3 dB
Crossover 3.5 kHz; 7.5 kHz
Impedance 5 ohms
Min. power 35 watts (15.5 dBW)
Max. power 200 watts (23 dBW)
Controls Fuse protection
Features Asymmetrical geometry to eliminate creation of standing waves inside and outside of enclosure; narrow enclosure to allow full radiation of sound waves resulting in wide dispersion

D-14 Speaker

Price \$250
Dimensions 26½H x 9½W x 15D
Weight N/A
Type Asymmetric transmission line

JANIS

Janis Audio Associates, Inc.
 2889 Roebing Ave.
 Bronx, N.Y. 10461

W-1 Subwoofer

Price \$695
Dimensions 17½H x 22W x 22D (floor standing)
Weight 90 lbs.
Type Slot-loaded
Drivers 15" dynamic
Response 30 to 100 Hz, ± 1 dB re 85 dB SPL into hemispherical space
Crossover External electronic crossover: 18 dB/octave at 100 Hz
Impedance 8 ohms
Min. power 60 watts (18 dBW) continuous
Max. power 200 watts (23 dBW) continuous; system is fused to protect against amplifier instability
Controls Level (When used with Interphase crossover amp)
Features Designed to extend bass response of high-quality wide-range speakers; harmonic distortion components of 1% or less; individual calibration report supplied with each speaker; to be used in biamplified mode (crossovers available from Janis Audio Associates, Inc.)

W-2 Subwoofer

Price \$495
Dimensions 17½H x 22W x 22D (floor-standing)

Weight 82 lbs.
Type Slot-loaded
Drivers 15" dynamic
Response 33 to 100 Hz, ± 2 dB re 85 dB SPL into hemispherical space
Crossover External electronic crossover; 18 dB/octave at 100 Hz
Impedance 8 ohms
Min. power 60 watts (18 dBW) continuous
Max. power 200 watts (23 dBW) continuous; system is fused to protect against amplifier instability

Controls

Level (when used with Interphase crossover amp)

Features Designed to extend bass response of high-quality wide-range speakers; harmonic distortion components of 1.5% or less; to be used in biamplified mode (crossovers available from Janis Audio Associates, Inc.)

JANSZEN

Janszen Electrostatic by
 Soundmates
 796 29th Ave., S.E.
 Minneapolis, Minn. 55414

Z-40

Price \$530
Dimensions 49½H x 13¼W x 13¼D
Weight 64 lbs.
Type Dynamic/electrostatic
Drivers 10" woofer; passive radiator; 2 mid-frequency electrostatic tweeters; 2 high-frequency electrostatic tweeters
Response 33 Hz to 2 kHz, ± 3 dB re 86 dB SPL at 2 volts at 1 meter; 26 Hz to 30 kHz, ± 6 dB
Crossover 800 Hz; 4 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter; midrange
Features Low frequencies extended by 4-pole passive radiator system; bipolar radiation of mids and highs

Z-20

Price \$375
Dimensions 27½H x 14¼W x 11¼D
Weight 48 lbs.
Type Dynamic/electrostatic
Drivers 12" woofer; 2 electrostatic tweeters
Response 30 Hz to 20 kHz, ± 3 dB re 82 dB SPL at 2 volts at 1 meter; 23 Hz to 30 kHz, ± 6 dB
Crossover 800 Hz
Impedance 4 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter

Z-10

Price \$315
Dimensions 24H x 13¼W x 11D
Weight 41 lbs.
Type Dynamic/electrostatic
Drivers 10" woofer; 2 electrostatic tweeters
Response 28 Hz to 30 kHz, ± 3 dB re 82 dB SPL at 2 volts at 1 meter; 28 Hz to 30 kHz, ± 6 dB
Crossover 800 Hz
Impedance 4 ohms
Min. power 20 watts (13 dBW)
Max. power 75 watts (18.75 dBW)
Controls Tweeter

Models also available

Z-30, \$430

JBL
James B. Lansing Sound, Inc.
8500 Balboa Blvd.
Northridge, Calif. 91329

L-212

Price \$2,000
Dimensions 38 $\frac{3}{4}$ "H x 17W x 13D
Weight 225 lbs.
Type Dynamic
Drivers 12" cone woofer; 8" cone midrange; 5" cone midrange; 1" dome tweeter

Crossover 70 Hz; 800 Hz; 3 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 300 watts (24.75 dBW)
Controls Continuously variable tweeter and midrange; ultra-bass and phase controls

Features 12" self-powered common bass loudspeaker in a third enclosure (dim.: 19 $\frac{1}{4}$ "H x 18 $\frac{1}{2}$ "W x 18 $\frac{1}{4}$ "D); system sensitivity: 91 dB SPL at 1 meter at 1 watt

L-220

Price \$875
Dimensions 48 $\frac{1}{4}$ "H x 20 3/16W x 15 $\frac{3}{8}$ "D
Weight 121 lbs.
Type Passive radiator
Drivers 14" direct bass radiator with 15" passive radiator; 5" direct midrange radiator; ultra-high-frequency ring radiator

Crossover 800 Hz; 5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 400 watts (26 dBW)
Controls Tweeter; midrange
Features Sensitivity: 90 dB SPL at 1 meter at 1 watt

L-65

Price \$625
Dimensions 24 $\frac{1}{2}$ "H x 17 $\frac{1}{2}$ "W x 13 $\frac{1}{8}$ "D
Weight 67 lbs.
Type Ducted port
Drivers 12" direct bass radiator; 5" direct midrange radiator; ultra-high-frequency ring radiator

Crossover 1 kHz; 6.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 250 watts (24 dBW) continuous
Controls Tweeter; midrange
Features Sensitivity: 89 dB SPL at 1 meter at 1 watt

L-150

Price \$595
Dimensions 41 $\frac{1}{2}$ "H x 17W x 13D
Weight 80 lbs.
Type Passive radiator
Drivers 12" direct bass radiator with 12" passive radiator; 5" direct midrange radiator; 1" dome tweeter

Crossover 1 kHz; 4 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 300 watts (24.75 dBW)
Controls Continuously variable tweeter and midrange
Features Sensitivity: 88 dB SPL at 1 meter at 1 watt

L-50

Price \$325
Dimensions 24 $\frac{1}{2}$ "H x 14 $\frac{1}{4}$ "W x 12 $\frac{3}{8}$ "D
Weight 47 lbs.
Type Bass reflex
Drivers 10" direct radiator woofer; 5" direct radiator midrange; 1 $\frac{1}{2}$ " direct

radiator tweeter
Crossover 800 Hz; 3 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Controls Tweeter; midrange
Features Sensitivity: 88 dB SPL at 1 meter at 1 watt

L-19

Price \$175
Dimensions 21H x 13W x 10D
Weight 29 lbs.
Type Bass reflex
Drivers 8" direct radiator woofer; 1 $\frac{1}{2}$ " direct radiator tweeter

Crossover 2.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter
Features Sensitivity: 87 dB SPL at 1 meter at 1 watt

RADIANCE SERIES

Radiance 902

Price \$219.95
Dimensions 27 $\frac{1}{2}$ "H x 17 $\frac{1}{2}$ "W x 12 $\frac{3}{8}$ "D
Weight 44 lbs. 8 oz.
Type Bass reflex
Drivers 12" cone woofer; 5" midrange; 3" tweeter
Crossover 600 Hz; 3 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Controls Three-position high frequency

Radiance 502

Price \$139.95
Dimensions 21 $\frac{1}{2}$ "H x 13 $\frac{1}{2}$ "W x 11 3/16D
Weight 27 $\frac{1}{2}$ lbs.
Type Bass reflex
Drivers 8" cone woofer; 3" tweeter
Crossover 2 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 80 watts (19 dBW)

Models also available

L-300, \$1,250; L-222, \$895; L-166, \$510; L-110, \$410; L-40, \$250; Radiance 702, \$179.95

JENNINGS RESEARCH
Contrara Research, Inc.
5719 South Avalon Blvd.
Los Angeles, Calif. 90011

Contrara-Triangle

Price \$330
Dimensions 29 $\frac{1}{2}$ "H x 18W x 14D
Weight 60 lbs.
Type Ported-enclosure
Drivers 12" woofer; 1 $\frac{1}{2}$ " dome midrange; 1" dome tweeter
Crossover 1.2 kHz; 5 kHz
Impedance 6 ohms
Min. power 15 watts (11.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls 2 (variable)
Features Solid walnut hand finished cabinet; angled siders

Piccola Bass Cube

Price \$275

Dimensions 21 $\frac{1}{2}$ "H x 18W x 18D
Weight 40 lbs.
Type Sealed box
Drivers 12" woofer
Response 92 dB SPL at 1 meter at 1 watt
Crossover 80 Hz
Impedance 8 ohms
Min. power 30 watts (14.75 dBW)
Max. power 200 watts (23 dBW)
Features Common bass subwoofer

Vector Two

Price \$270
Dimensions 24 $\frac{3}{4}$ "H x 14 $\frac{3}{4}$ "W x 11 $\frac{3}{4}$ "D
Weight 40 lbs.
Type Passive radiator
Drivers 10" woofer with 10" passive radiator; 1 $\frac{1}{2}$ " midrange; 1" tweeter
Response 18 dB SPL at 1 meter at 1 watt
Crossover 1.2 kHz; 5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls Midrange; tweeter
Features Linear phase coherency

Contrara Tower

Price \$210
Dimensions 28 $\frac{1}{2}$ "H x 11 $\frac{1}{2}$ "W x 11 $\frac{1}{2}$ "D
Weight 35 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1" tweeter
Response 89 dB SPL at 1 meter at 1 watt
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter

Piccola Two

Price \$110
Dimensions 14 $\frac{3}{4}$ "H x 9W x 6 $\frac{3}{8}$ "D
Weight 12 lbs.
Type Vented
Drivers 6 $\frac{1}{2}$ " woofer; 1" tweeter
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 75 watts (18.75 dBW)

Models also available

Contrara Pedestal, \$280; Vector One, \$190; Contrara Rectangle, \$145

JENSEN

Jensen Sound Labs
4136 N. United Parkway
Schiller Park, Ill. 60176

System B

Price \$550
Dimensions 33 $\frac{3}{4}$ "H x 16 $\frac{1}{2}$ "W x 11 $\frac{3}{4}$ "D (including base)
Weight 78 lbs.
Type Vented
Drivers 12" woofer; 6" lower midrange; 1 $\frac{1}{4}$ " upper midrange dome; 2" rear-firing direct-radiating tweeter
Response 37 Hz to 21 kHz, +2, -4 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 300 Hz; 2 kHz; 8 kHz
Impedance 8 ohms
Min. power 9 watts (9.5 dBW)
Max. power 150 watts (21.75 dBW)
Controls Upper midrange; high frequency (continuously variable)
Features Power protection circuit; full 5-year transferable warranty; variable tilt base; impedance-compensated crossover network

LS-66

Price \$370
Dimensions 30¾H (including base) x 18¾W x 16¼D
Weight 70 lbs.
Type Acoustic suspension
Drivers 15" woofer; two 3½" cone midrange drivers; 1½" Mylar dome tweeter
Response 45 Hz to 20 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 4 kHz
Impedance 8 ohms nominal
Min. power 10 watts (10 dBW) continuous
Max. power 100 watts (20 dBW) continuous
Controls Tweeter; midrange
Features Full 5-year transferable warranty

LS-46

Price \$220
Dimensions 24½H x 13½W x 12½D
Weight 40 lbs.
Type Acoustic suspension
Drivers 10" woofer; 3½" cone midrange; 2" cone tweeter
Response 55 Hz to 18 kHz, ±3 dB re 89 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 4 kHz
Impedance 8 ohms nominal
Min. power 10 watts (10 dBW) continuous
Max. power 75 watts (18.75 dBW) continuous
Controls Tweeter/midrange
Features Full 5-year transferable warranty

30

Price \$170
Dimensions 24½H x 15W x 10D
Weight 28 lbs.
Type Acoustic suspension
Drivers 10" woofer; 3½" midrange; 2" direct-radiating tweeter
Response 60 Hz to 18 kHz, ±3 dB re 89 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz; 4 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 50 watts (17 dBW)
Features Full 5-year transferable warranty

LS-26

Price \$100
Dimensions 18¾H x 11W x 9¾D
Weight 18 lbs.
Type Acoustic suspension
Drivers 8" woofer; 2" cone tweeter
Response 65 Hz to 18 kHz, ±3 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 4 kHz
Impedance 8 ohms nominal
Min. power 10 watts (10 dBW) continuous
Max. power 50 watts (17 dBW) continuous
Features Full 5-year transferable warranty

Models also available

LS-56, \$280; LS-36, \$155; 20, \$190

JONSON SPEAKERS
Speakers and Associated
Sound, Inc.
420 Austin Place
Bronx, N.Y. 10455

3-DM-2000/WDR-2H, "The President"

Price \$799
Dimensions 42¾H x 21¾W x 20D
Weight 120 lbs.
Type Acoustic suspension
Drivers Top unit, "Pentagon": 5 midrange domes, 3 dome tweeters; bass unit: two 10" woofers

Response 20 Hz to 20 kHz, ±5 dB re 80 dB SPL at 1 meter at 1 watt
 2.1 kHz; 4 kHz
Crossover 15 ohms
Impedance 50 watts (17 dBW)
Min. power 140 watts (21.5 dBW)
Max. power None
Controls None
Features Pentagon: 540 degree radiation pattern (360 horizontal, 180 vertical)

3-DM-2/WDR-4M, "The Statesman"

Price \$640
Dimensions 42¾H x 19¾W x 20D
Weight 100 lbs.
Type Vented
Drivers Top unit, "Pentagon": 5 midrange drivers; 5 tweeters; bass unit; four 8" woofers
Response 30 Hz to 20 kHz
Crossover 2.4 kHz
Impedance 4 ohms
Min. power 100 watts (20 dBW)
Max. power Pentagon: 540-degree radiation pattern (360 horizontal, 180 vertical)

3DM-1/WHS-2, "The Diplomat"

Price \$450
Dimensions 27H x 24W x 18D
Weight 80 lbs.
Type Acoustic suspension
Drivers Top unit, "Pentagon Junior": 4 full-range drivers, 1 tweeter; bass unit: two 10" woofers facing downwards
Response 30 Hz to 20 kHz
Crossover 350 Hz; 5 kHz
Impedance 4 ohms
Max. power 70 watts (18.5 dBW)

Models also available

3-DM-2000/WDR-1M, "The Ambassador", \$605

JR LOUDSPEAKERS
H & H International
3047 W. Henrietta Rd.
Rochester, N.Y. 14623

JR-150

Price \$825/pr.
Dimensions 21H x 11W x 11D
Weight 24¾ lbs.
Type Sealed cabinet
Drivers Two Bextrene cone woofers; 1 doped soft-dome tweeter
Response 40 Hz to 40 kHz, ±2 dB re 87 dB SPL at 1 meter at 1 watt
Crossover 2.2 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter
Features Aluminum cylinder; 24 dB/octave slope

JR Super Woofer

Price \$395
Dimensions 20H x 13½W x 13½D
Weight 50 lbs.
Drivers Special 8" driver
Response 30 Hz to 150 kHz
Impedance 8 ohms
Min. power 60 watts (17.75 dBW)
Max. power None
Controls None
Features Highly damped reflex electromagnetic damping

Models also available

JR-149, \$495/pr.

JVC

U.S. JVC Corp.
Hi Fi Division
58-75 Queens Midtown
Expressway
Maspeth, N.Y. 11378

Zero 9

Price \$700
Dimensions 41¼H x 16 1/16W x 16¼D
Weight 92 lbs. 6.4 oz.
Type Bass reflex
Drivers Two 12" cone woofers; 3 15/16" dome cone midrange; 2 1/16" x 5/16" ribbon tweeter
Response 25 Hz to 50 kHz, 92 dB SPL at 1 meter at 1 watt
Crossover 450 Hz; 5.5 kHz
Impedance 6 ohms
Max. power 150 watts (21.75 dBW)
Controls Midrange; tweeter

Zero 5

Price \$400
Dimensions 25¾H x 14¾W x 13¾D
Weight 46 lbs. 3.2 oz.
Type Bass reflex
Drivers 12" cone woofer; 3 15/16" dome cone midrange; 2 1/16" x 5/16" ribbon tweeter
Response 35 Hz to 50 kHz, 91.5 dB SPL at 1 meter at 1 watt
Crossover 500 Hz; 5 kHz
Impedance 6 ohms
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter

SK-1000 II

Price \$280
Dimensions 25¾H x 15¾W x 13¾D
Weight 48 lbs. 8 oz.
Type Bass reflex
Drivers 12" cone woofer; 5" cone midrange; 1" dome tweeter
Response 30 Hz to 40 kHz, 94 dB SPL at one meter at one watt
Crossover 900 Hz; 9 kHz
Impedance 8 ohms
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter

SK-500 II

Price \$200/pr.
Dimensions 19¾H x 12½W x 12½D
Weight 23 lbs. 3.2 oz.
Type Bass reflex
Drivers 10" cone woofer; 2¾" cone tweeter
Response 40 Hz to 20 kHz, 92 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 8 ohms
Max. power 50 watts (17 dBW)

SK-400 II

Price \$150/pr.
Dimensions 17¾H x 10¾W x 10¼D
Weight 17 lbs. 9 oz.
Type Bass reflex
Drivers 8" cone woofer; 2¾" cone tweeter
Response 45 Hz to 20 kHz, 91 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 8 ohms
Max. power 40 watts (16 dBW)

S-M5

Price \$299/pr.
Dimensions 9 3/16H x 5 13/16W x 5 29/32D
Weight 9 lbs. 3 oz.
Type Acoustic suspension
Drivers 5½" cone woofer; 1" dome tweeter



**Infinity Reference
Standard 4.5**



Jensen B



Jonson "The President"



KA/Kinetic Audio Titan Labyrinth



JVC Zero 9

Response 45 Hz to 20 kHz, 88 dB SPL at 1 meter at 1 watt
Crossover 2.5 kHz
Impedance 8 ohms
Max. power 80 watts (19 dBW)

Models also available

Zero 3, \$320; SK-700 II, \$180; SK-600 II, \$240/pr.; S-M3, \$170/pr

KA/KINETIC AUDIO

KA/Kinetic Audio International, Ltd.

**6624 W. Irving Park Road
Chicago, Ill. 60634**

Titan Labyrinth

Price \$1,995
Dimensions 48H x 31W x 18D
Weight 375 lbs.
Type Dual, 8' trapezoidal double helical transmission lines and tapered acoustical line
Drivers Two 12" rubber composition cone woofers; two 5" Bextrene cone midranges; two 1 1/4" magnet-liquid tweeters; two 1" dome supertweeters
Response 14 Hz to 22 kHz, $\pm 2\frac{1}{2}$ dB
Crossover 90 Hz; 2 kHz; 7.5 kHz
Impedance 4 ohms (3.2 ohms min; 9 ohms max)
Min. power 15 watts (11.75 dBW) per channel into 4 ohms
Max. power 300 watts (24.75 dBW) per channel into 4 ohms
Controls 4 level controls
Features Complete with base and casters; may be bi- or triamped; fuse protection; phase-corrected

Amp Eater One

Price \$1,499
Dimensions 48H x 31W x 18D
Weight 315 lbs.
Type Four 4' tapered trapezoidal 1/8 wavelength transmission lines and tapered acoustical line
Drivers Four 12" cone woofers; two 5" Bextrene cone midranges; two 1 1/4" dome midtweeters; two 1" dome supertweeters
Response 12 Hz to 22 kHz, ± 2.5 dB
Crossover 300 Hz; 2.5 kHz; 7.5 kHz
Impedance 2 to 8 ohms (2 recommended)
Min. power 15 watts (11.75 dBW) per channel into 8 ohms
Max. power 600 watts (27.75 dBW) per channel into 2 ohms

Controls 4 level controls
Features KA Var-I-Vent (adjusts system resonance); may be bi- or triamped; fuse protection; phase-corrected; liquid-cooled midtweeters and supertweeters

The Labyrinth

Price \$1,169
Dimensions 52H x 16W x 16D (with base)
Weight 165 lbs.
Type Tapered acoustical trapezoidal/labyrinth line
Drivers 12" cone woofer; 5" Bextrene cone midrange; 1 1/4" dome midtweeter; 1" dome supertweeter
Response 16 Hz to 22 kHz, ± 2.5 dB
Crossover 90 Hz; 2 kHz; 7.5 kHz
Impedance 8 ohms (5 ohms min; 11 ohms max)
Min. power 15 watts (11.75 dBW) per channel into 8 ohms
Max. power 200 watts (23 dBW) per channel into 8 ohms
Controls 3 level controls
Features May be bi- or triamped; fuse protection; phase-corrected; magnetic-liquid tweeter

Labyrinth Subwoofer

Price \$699
Dimensions 48H x 16W x 18D
Weight 125 lbs.
Type Tapered acoustical trapezoidal line/labyrinth
Drivers 12" long excursion woofer with synthetic composition deep cone
Response 20 Hz to 2 kHz, $\pm 2\frac{1}{2}$ dB
Crossover 40 Hz; 90 Hz; 175 Hz or no internal crossover
Impedance 8 ohms
Features Four built-in sets of terminals in back; biamp with or without electronic crossover

Impulse

Price \$469
Dimensions 26H x 14 1/2W x 14D
Weight 85 lbs.
Type Tapered acoustical line and semilabyrinth time-patterned and phase-corrected
Drivers 12" cone woofer; 5" Bextrene cone midrange; 1 1/4" magnet-liquid-cooled dome tweeter
Response 20 Hz to 22 kHz, ± 2.5 dB
Crossover 175 Hz; 2 kHz
Impedance 8 ohms (5 ohms min; 14 ohms max)
Min. power 15 watts (11.75 dBW) per channel into 8 ohms
Max. power 200 watts (23 dBW) per channel into 8 ohms
Controls 2 level controls
Features KA Var-I-Vent (adjusts system resonance); may be biamped; fuse protection; phase-corrected

Impulse Subwoofer

Price \$299
Dimensions 26H x 14 1/2W x 14D
Weight 58 lbs.
Type Tapered acoustical trapezoidal line/labyrinth
Drivers 12" long excursion woofer with synthetic composition deep cone
Response 20 Hz to 2 kHz, $\pm 2\frac{1}{2}$ dB
Crossover 40 Hz; 90 Hz; 175 Hz or no internal crossover
Impedance 8 ohms
Features Four built-in sets of terminals in back; biamp with or without electronic crossover

IMP

Price \$269
Dimensions 24H x 14 1/2W x 9D
Weight 48 lbs.
Type Tapered acoustical line
Drivers 12" woofer, 5" Bextrene cone midrange; 1 1/4" dome tweeter
Response 34 Hz to 22 kHz, ± 2.5 dB re 93 dB SPL at 1 meter at 1 watt
Crossover 300 Hz; 2 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Controls 2 level controls
Features Stacked series, parallel crossover for phase continuity; fused

Models also available

TAS Challenger, \$999; Trapezoid, \$669; Trapezoid subwoofer, \$399; STAT, \$369; Zoid, \$189

KEF

Intratec

**P.O. Box 17414
Dulles International Airport
Washington, D.C. 20041**

105

Price \$950
Dimensions 38H x 17 9/10W x 16 3/10D
Weight 80 lbs.
Type Coherent phase
Drivers 12" woofer; 5" cone midrange; 1 1/2" dome tweeter
Response 30 Hz to 25 kHz, ± 2 dB
Impedance 8 ohms
Min. power 40 watts (16 dBW)
Max. power 200 watts (23 dBW)
Controls Midrange; tweeter level
Features LED "Listening Window" power indicator; midrange/tweeter assembly can be rotated for best stereo placement

Cantata

Price \$625 (assembled); \$395 (kit)
Dimensions 32 1/10H x 15 2/5W x 13 2/5D
Weight 70 lbs.
Type Infinite baffle
Drivers 13" x 9" woofer; 5" cone midrange; 1 1/2" dome tweeter
Response 35 Hz to 20 kHz, ± 3 dB
Crossover 250 Hz; 3 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls Midrange; tweeter level
Features Walnut or teak wood cabinet

104aB

Price \$425 (assembled); \$250 (kit)
Dimensions 24 4/5H x 13W x 10 1/5D
Weight 36 lbs.
Type Reflex
Drivers 8" woofer; 9" x 13" drone; 3/4" dome tweeter
Response 50 Hz to 20 kHz, ± 2 dB
Crossover 45 Hz; 3 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange level
Features Walnut or teak wood cabinet

304

Price \$295
Dimensions 26 7/10H x 11W x 12 2/5D
Weight 30 lbs.
Type Infinite baffle
Drivers Two: 8" woofers; 1" dome tweeter
Response 60 Hz to 20 kHz, ± 3 dB re 87 dB SPL at 1 meter at 1 watt
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Features Satin black finish; optional floor stand

Corelli

Price \$215
Dimensions 18H x 8 3/5W x 11D
Weight 20 lbs.
Type Infinite baffle
Drivers 8" woofer; 3/4" dome tweeter
Response 50 Hz to 30 kHz, ± 3 dB
Crossover 3.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 50 watts (17 dBW)
Features Walnut or teak wood cabinet

Models also available

Calinda, \$350; 101, \$250; 303, \$175

KENWOOD

Kenwood Electronics, Inc.
75 Seaview Drive
Secaucus, N.J. 07094

LS-1900

Price \$1,165
Dimensions 41 17/32H x 22 2/32W x 17 23/32D
Weight 127 lbs. 14 oz.
Type Vented
Drivers 13" woofer; 5 1/2" midrange; high-frequency driver
Response 30 Hz to 21 kHz, 92 dB SPL at 1 meter at 1 watt
Crossover 600 Hz; 5 kHz
Impedance 8 ohms
Min. power 50 watts (17 dBW)
Max. power 170 watts (22.25 dBW)
Controls Mid/high frequency
Features Linear response; phase coherent mid- and high-frequency drivers

LS-1200

Price \$365
Dimensions 25 19/32H x 13 25/32W x 12 3/4D
Weight 47 lbs. 5 oz.
Type Vented
Drivers 10" woofer; 4" midrange; 9/16" high-frequency driver
Response 35 Hz to 20 kHz, 90 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 6 kHz
Impedance 8 ohms
Min. power 40 watts (16 dBW)
Max. power 100 watts (20 dBW)
Features Linear response

Seven

Price \$1,250
Dimensions 37H x 18 1/2W x 15D
Weight 121 lbs.
Type Acoustic suspension
Drivers 14" woofer; 4 1/2" midrange; 1 1/2" tweeter; 3/4" supertweeter
Response 20 Hz to 35 kHz (94 dB SPL at 1 watt at 1 meter)
Crossover 400 Hz; 4 kHz; 8 kHz
Impedance 8 ohms
Min. power 50 watts (21.75 dBW)
Max. power Midrange; tweeter; supertweeter

LS-407B

Price \$245
Dimensions 25 3/4H x 15W x 13 3/4D
Weight 40 lbs.
Type Vented
Drivers 10" woofer; 4 3/8" midrange; 1 3/4" tweeter
Response 40 Hz to 20 kHz (93 dB SPL at 1 watt at 1 meter)
Crossover 2 kHz; 5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 120 watts (20.75 dBW)
Controls Mid/high frequency

LS-404B

Price \$285/pr.
Dimensions 21H x 12 1/2W x 10D
Weight 26 lbs. 3 oz.
Type Vented
Drivers 8" woofer; 1 3/4" tweeter
Response 50 Hz to 20 kHz, 90 dB SPL at 1 meter at 1 watt
Crossover 4 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 80 watts (19 dBW)

Models also available

LS-1600, \$550; LS-408B, \$310; LS-405B, \$175

KIRKSAETER

Kirksaeter-Saga Hi-Fi, Inc.
398 South Pickett St.
Alexandria, Va. 22304

MONITOR 400

Price \$1,400
Dimensions 26 3/4H x 18 7/8W x 13 3/4D
Weight 59 lbs. 8 oz.
Type Acoustic suspension
Drivers Four 8" long excursion woofer; four 1 1/2" dome midranges; four 1" dome tweeters
Response 16 Hz to 25 kHz (DIN)
Crossover 650 Hz; 4.5 kHz
Impedance 4/8 ohms
Min. power 30 watts (14.75 dBW)
Max. power 400 watts (26 dBW)
Controls Two tweeter, 2 midrange controls adjustable from 0 to 6 dB

Features All drivers fused; designed for disco operation; speaker radiates sound from the top, both sides and front for panoramic dispersion; walnut finish

MONITOR 250

Price \$850
Dimensions 26 3/4H x 18 7/8W x 9 3/4D
Weight 46 lbs. 5 oz.
Type Acoustic suspension
Drivers Two 10" long excursion woofers; two 1 1/2" dome midranges; two 1" dome tweeters
Response 18 Hz to 25 kHz (DIN)
Crossover 650 Hz; 4.5 kHz
Impedance 4/8 ohms
Min. power 20 watts (13 dBW)
Max. power 250 watts (24 dBW)
Controls Two tweeter, 2 midrange controls adjustable from 0 to 6 dB
Features Same as Monitor 400

MONITOR 100

Price \$300 (walnut); \$325 (oak or black oak)
Dimensions 16 1/4H x 10 1/2W x 8D
Weight 18 lbs.
Type Acoustic suspension
Drivers 8" woofer; 1 1/2" dome midrange; 1" dome tweeter
Response 28 Hz to 25 kHz (DIN)
Crossover 650 Hz; 4.5 kHz
Impedance 4/8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter (adjustable 0 to 6 dB); midrange (adjustable from 0 to 6 dB)

Models also available

MONITOR 150, \$600 (walnut); \$650 (oak or black oak); MONITOR 120, \$375 (walnut); \$400 (oak or black oak)

KLEIN & HUMMEL

Gotham Audio Corp.
741 Washington St.
New York, N.Y. 10014

0-92

Price \$3,360
Dimensions 31 1/2H x 17 1/4W x 11 3/4D
Weight 66 lbs.
Type Acoustic suspension
Drivers 4 cone
Response 50 Hz to 16 kHz, ± 1.5 dB (80 dB SPL)
Crossover 500 Hz; 3 kHz
Min. power Low frequency; 120 watts (20.75 dBW); mid-frequency: 60 watts (17.75 dBW); high-frequency: 60 watts (17.75 dBW)
Controls Woofer; tweeter
Features Plug-in compensators for room placement; 0, 1, 2, or 3 surfaces

OY

Price \$1,140
Dimensions 12H x 19W x 9D
Weight 44 lbs.
Type Acoustic suspension
Drivers Cone woofer and midrange; horn tweeter
Response 40 Hz to 16 kHz, ± 2 dB
Crossover 500 Hz; 8 kHz
Min. power 30 watts (14.75 dBW)
Controls Woofer; tweeter
Features System includes two 30-watt amplifiers and crossover

KLH
KLH Research & Development Corp.
145 University Ave.
Westwood, Mass. 02090

KLH-1

Price \$1,100/pr. (including Analog Bass Computer[®])
Dimensions 30H x 10½W x 11D
Weight 55 lbs. ea.
Type Computer controlled vented sixth-order Butterworth alignment
Drivers Two 8" die-cast frame dynamic bass units, with natural polypropylene formed cones; one 4½" midrange with formed cone of natural polypropylene; one 1" dome tweeter with butyl loaded synthetic soft dome
Response 30 Hz to 20 kHz, ±3 dB re 86 dB SPL at 1 meter at 1 watt
Crossover 750 Hz; 3 kHz
Impedance 4 ohms
Min. power 40 watts (16 dBW)
Max. power 250 watts (24 dBW)
Controls Position, power indicator, tape, in/out
Features (on computer) Utilizes Analog Bass Computer[®] for extended bass response in conjunction with hi-flux motor system; proprietary drivers with natural polypropylene cones; includes speaker stand

KLH-3

Price \$450 (including Analog Bass Computer[®])
Dimensions 12½H x 8½W x 6D
Weight 25 lbs.
Type Computer controlled vented sixth-order Butterworth alignment
Drivers 6" die-cast frame dynamic bass unit with natural polypropylene cone; one 1" dome tweeter with butyl loaded synthetic soft dome
Response 40 Hz to 20 kHz, ±3 dB re 84 dB SPL at 1 meter at 1 watt
Crossover 2.75 kHz
Impedance 4 ohms
Min. power 40 watts (16 dBW)
Max. power 200 watts (23 dBW)
Controls Position tape, in/out (on computer)
Features Utilizes Analog Bass Computer[®] for extended bass response in conjunction with hi-flux motor system; proprietary drivers with natural polypropylene cones

KLH-4

Price \$290/pr.
Dimensions 12½H x 8½W x 6D
Weight 25 lbs.
Type Vented sixth-order Butterworth alignment
Drivers 6" die-cast frame dynamic bass unit with natural polypropylene cone; one 1" dome tweeter with butyl loaded synthetic soft dome
Response 63 Hz to 20 kHz, ±3 dB re 84 dB SPL at 1 meter at 1 watt
Crossover 2.75 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW)
Max. power 60 watts (17.75 dBW)
Features Proprietary drivers with natural polypropylene cones

KLH DEDICATED SERIES

319B

Price \$230
Dimensions 24½H x 14½W x 11¼D

Weight 40 lbs.
Type Tuned phase inverter
Drivers 12" woofer; 5¼" cone midrange; 1" soft-dome tweeter; 2½" cone tweeter on rear
Response 52.5 Hz to 22 kHz
Crossover 1.1 kHz; 3 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter

331B

Price \$100
Dimensions 21H x 12W x 8¼D
Weight 20 lbs. 8 oz.
Type Acoustic suspension
Drivers 8" woofer; 2½" cone tweeter
Response 64 Hz to 18 kHz
Crossover 3 kHz
Impedance 8 ohms
Min. power 8 watts (9 dBW)
Max. power 50 watts (17 dBW)

Models also available

KLH-2, \$660/pr. (including Analog Bass Computer[®]); 337, \$199; 327, \$179; 317B, \$130

KLIPSCH
Klipsch & Associates
P.O. Box 688
Hope, Ark. 71801

Klipschorn

Price \$1,192 (walnut oil, walnut lacquer); \$1,651 (rosewood, teak, oak, cherry); \$872 (birch, raw, black); \$774 (decorator model in birch, raw, black)
Dimensions 52H x 31¼W x 28½D (walnut, rosewood, teak, oak, cherry); 50½H (birch, raw, black); 49¾H (decorator model)
Weight 180 to 240 lbs., depending on style
Type Dynamic
Drivers 15" bass; compression midrange; compression high frequency
Response 35 Hz to 17 kHz, ±5 dB
Crossover 400 Hz; 6 kHz
Impedance 8 ohms
Min. power 1 watt (0 dBW)
Max. power 105 watts (20.25 dBW)

Belle Klipsch

Price \$959 (walnut oil, walnut lacquer); \$1,374 (rosewood, teak, oak, cherry)
Dimensions 35½H x 30¾W x 18¼D
Weight 125 lbs.
Type Dynamic
Drivers 15" bass; compression midrange; compression high frequency
Response 45 Hz to 17 kHz, ±5 dB
Crossover 400 Hz; 6 kHz
Impedance 8 ohms
Min. power 1 watt (0 dBW)
Max. power 105 watts (20.25 dBW)

La Scala

Price \$618 (birch, raw, black); \$646 (birch lacquer); \$671 (birch lacquer-stained)
Dimensions 35¼H x 23¾W x 24½D
Weight 110 lbs.
Type Dynamic
Drivers 15" bass; compression midrange; compression high frequency
Response 45 Hz to 17 kHz, ±5 dB
Crossover 400 Hz; 6 kHz
Impedance 8 ohms
Min. power 1 watt (0 dBW)
Max. power 105 watts (20.25 dBW)

Heresy

Price \$339 (walnut oil, walnut lacquer); \$332 (walnut without base); \$436 (rosewood, teak, oak, cherry); \$285 (birch, raw, black)
Dimensions 21¾H x 15½W x 13¼D
Weight 55 lbs.
Type Dynamic
Drivers 12" bass; compression midrange; compression high frequency
Response 50 Hz to 17 kHz, ±5 dB
Crossover 700 Hz; 6 kHz
Min. power 1 watt (0 dBW)
Max. power 105 watts (20.25 dBW)

Models also available

Cornwall, \$597 (walnut oil, walnut lacquer); \$585 (walnut without base); \$746 (rosewood, teak, oak, cherry); \$459 (birch, raw, black)

KOSS
Koss Corp.
4129 North Port Washington Ave.
Milwaukee, Wis. 53212

CM/1030

Price \$549.95
Dimensions 39H x 16½W x 14½D
Weight 74 lbs.
Type Vented
Drivers 10" woofer; two 4½" midrange drivers; 1" tweeter; 1" supertweeter
Response 29 Hz to 19 kHz, -3 dB
Crossover 400 Hz; 2.5 kHz; 6 kHz
Impedance 7 ohms
Min. power 15 watts (11.75 dBW)
Max. power 200 watts (23 dBW)
Controls Midrange; tweeter; supertweeter

CM/1020

Price \$449.95
Dimensions 33H x 15½W x 14D
Weight 60 lbs.
Type Vented
Drivers 10" woofer; 4½" midrange driver; 1" tweeter
Response 31 Hz to 18.5 kHz, -3 dB
Crossover 450 Hz; 3 kHz
Impedance 7 ohms
Min. power 15 watts (11.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls Midrange; tweeter

CM/530

Price \$229.95
Dimensions 24H x 13¾W x 11¼D
Weight 35 lbs.
Type Passive radiator
Drivers 8" woofer; 1" tweeter
Response 36 Hz to 17 kHz, -3 dB
Crossover 3 kHz
Impedance 7/4 ohms
Min. power 15 watts (11.75 dBW)
Max. power 75 watts (18.75 dBW)
Controls Tweeter
Features Mirror-Imaged pairs

Models also available
 CM/1010, \$349.95

LAFAYETTE
Lafayette Radio Electronics
111 Jericho Turnpike
Syosset, N.Y. 11791

1009

Price \$99.99
Dimensions 24H x 14½W x 10½D
Weight 40 lbs.
Type Acoustic suspension
Drivers 12" woofer; 5" midrange; 3" tweeter
Response 40 Hz to 18 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 55 watts (17.25 dBW) peak
Controls Midrange; tweeter
Features Simulated birch finish

1005

Price \$59.99
Dimensions 20H x 12½W x 8½D
Weight 21 lbs.
Type Acoustic suspension
Drivers 10" woofer; 2½" tweeter
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 50 watts (17 dBW) peak
Features Simulated birch finish

Pip Speak

Price \$99.98/pr.
Dimensions 7½H x 4½W x 4D
Weight 6 lbs.
Type Acoustic suspension mini speaker system
Drivers 4" woofer; 1" soft-dome tweeter
Response 80 Hz to 20 kHz
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 12 watts (10.75 dBW)
Max. power 50 watts (17 dBW)
Features Die-cast aluminum cabinet; perforated metal grille; includes adjustable mounting brackets

1001

Price \$29.99
Dimensions 16H x 10W x 6½D
Weight 10 lbs.
Type Acoustic suspension
Drivers 6" woofer; 3" tweeter
Response 75 Hz to 16 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 20 watts (13 dBW) peak
Features Simulated birch finish

Models also available

1007, \$79.99; 1003, \$44.99

LANCER

Lancer Electronics
10530 Lawson River Ave.
Fountain Valley, Calif. 92708

SC-8

Price \$359.50
Dimensions 28H x 18W x 13¼D
Weight 65 lbs.
Type Vented
Drivers Two 12" woofers; 5¼" dome midrange; 3½" dome tweeter
Response 20 Hz to 22 kHz, 92 dB SPL at 1 meter at 1 watt
Crossover 500 Hz; 4.5 kHz
Impedance 8 ohms
Min. power 8 watts (9 dBW)
Max. power 120 watts (20.75 dBW)
Controls Midrange; tweeter
Features Genuine walnut solid and veneer cabinets; black double-knit grilles; 5-year warranty

SC-9T

Price \$249.50
Dimensions 38H x 12W x 12D
Weight 57 lbs.
Type Acoustic suspension

Drivers 10" woofer; 5" midrange; two dome tweeters
Response 20 Hz to 20 kHz, 89 dB SPL at 1 meter at 1 watt
Crossover 500 Hz; 4.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 90 watts (19.5 dBW)
Controls Midrange; tweeter
Features Tower design; front and rear radiating; genuine walnut solid and veneer cabinets; black double-knit grilles; 5-year warranty

SC-4A

Price \$229.50
Dimensions 23½H x 15W x 12¼D
Weight 53 lbs.
Type Acoustic suspension
Drivers 12" woofer; 5" midrange; 2½" tweeter
Response 20 Hz to 20 kHz, 91 dB SPL at 1 meter at 1 watt
Crossover 750 Hz; 6 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter
Features Genuine oak veneer and solid; brown double-knit grille; 5-year warranty

SC-10A

Price \$139.50
Dimensions 20¼H x 12½W x 10D
Weight 33 lbs.
Type Acoustic suspension
Drivers 10" woofer; 2¼" tweeter
Response 20 Hz to 20 kHz, 90 dB SPL at 1 meter at 1 watt
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter
Features Genuine walnut solid and veneer brown double-knit grille; 5-year warranty

9335-2

Price \$99.50
Dimensions 25H x 14¼W x 11¼D
Weight 33 lbs.
Type Tubular; vented
Drivers 12" woofer; 2¼" tweeter
Response 30 Hz to 20 kHz, 93 dB SPL at 1 meter at 1 watt
Crossover 3 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 50 watts (17 dBW)
Features Genuine walnut solid and veneer cabinets; white, gold, or brown grilles; 5-year warranty

SC-1

Price \$34.50
Dimensions 11½H x 8W x 7¼D
Weight 17 lbs.
Type Acoustic suspension
Drivers 6" woofer; tweeter
Response 40 Hz to 18 kHz, 88 dB SPL at 1 meter at 1 watt
Crossover 3 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 40 watts (16 dBW)
Features Minispeaker; genuine walnut solid and veneer cabinets; white, gold or brown grilles; 5-year warranty

Models also available

SC-7A, \$269.50; SC-11, \$199.50; 9534X, \$69.50; 9711, \$54.50

LINN PRODUCTS LTD.
Audiophile Systems
5750 Rymark Court
Indianapolis, Ind. 46250

DMS Isobarik

Price \$3,100/pr.
Dimensions 30H x 15W x 16½D
Weight 100 lbs.
Type Isobarik loading
Drivers Two 5" midrange drivers; two 1" dome tweeters
Response 16 Hz to 20 kHz, ±1.5 dB
Crossover 375 Hz; 3 kHz
Impedance 4 ohms
Min. power 50 watts (17 dBW)
Max. power 500 watts (27 dBW)

S.A.R.A. Isobarik

Price \$1,470/pr.
Dimensions 17H x 13W x 10D
Weight 33 lbs.
Type Isobarik loading
Drivers Two 8" woofers; 1" dome tweeter
Response 40 Hz to 20 kHz, ±2 dB
Impedance 4 ohms
Features Laminated PVC enclosure

MAGNEPLANAR

Magneplan, Inc.
1645 9th St.
White Bear Lake, Minn. 55110

MG-IIA

Price \$825/pr.
Dimensions 72H x 22W x 1¼D
Weight 45 lbs.
Type Magneplanar
Drivers Woofer; tweeter
Response 45 Hz to 16 kHz, ±4 dB
Crossover 2.1 kHz
Impedance 6 ohms
Min. power 30 watts (14.75 dBW)
Max. power 200 watts (23 dBW) continuous
Features Mirror-imaged matched pair; purely resistive load

MG-I

Price \$495/pr.
Dimensions 59H x 22W x 1¼D
Weight 30 lbs.
Type Magneplanar
Drivers Woofer; tweeter
Response 50 Hz to 16 kHz, ±4 dB
Crossover 2.4 kHz
Impedance 5 ohms
Min. power 30 watts (14.75 dBW)
Max. power 200 watts (23 dBW)
Features Mirror-imaged matched pair; purely resistive load

MARANTZ

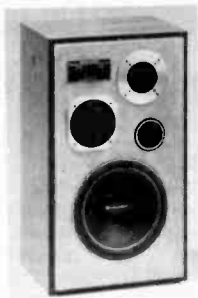
Superscope, Inc.
20525 Nordhoff St.
Chatsworth, Calif. 91311

HD-880

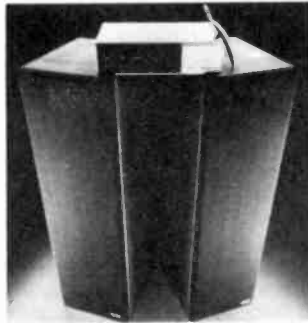
Price \$420/pr.
Dimensions 26½H x 15W x 11¼D
Weight 56 lbs. 10 oz.
Type VARI Q® (Infinite baffle/porting)
Drivers 12 woofer; 5 midrange; 1½" LPF dome tweeter; 1" LPF dome supertweeter
Response 30 Hz to 22 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 750 Hz; 2.3 kHz; 5 kHz



KEF 105



Kenwood LS-407B



KLH-1



Klipsch LaScala



Lafayette Criterion 2003A

Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 250 watts (24 dBW)
Controls Midrange, tweeter, and supertweeter L-pad controls
Features Low stored energy loudspeakers

HD-770

Price \$330/pr.
Dimensions 40¼H x 16W x 12D
Weight 74 lbs. 5 oz.
Type VARI-Q® (Infinite baffle/ported)
Drivers 12" woofer; 5" midrange; 1½" LPF dome tweeter; 1" LPF dome supertweeter
Response 33 Hz to 22 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 750 Hz; 2.3 kHz; 5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Controls Midrange, tweeter, and supertweeter L-pad controls
Features Low stored energy loudspeakers

HD-440

Price \$110/pr.
Dimensions 19½H x 11¼W x 8½D
Weight 25 lbs. 5 oz.
Type Acoustic suspension
Drivers 8" woofer; 3½" midrange; 3½" tweeter
Response 45 Hz to 18 kHz, ±3 dB
Crossover 2 Hz; 8 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 50 watts (17 dBW)

Mk II SERIES

8-MkII

Price \$260/pr.
Dimensions 34H x 18W x 13D
Weight 70 lbs.
Type Acoustic suspension
Drivers 15" woofer; 5" midrange; 1¾" tweeter
Response 30 Hz to 20 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 800 Hz; 3 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 250 watts (24 dBW)
Controls Midrange and tweeter L-pads

7 Mk II

Price \$180/pr.
Dimensions 25½H x 14¾W x 11½D
Weight 49 lbs. 5 oz.
Type Acoustic suspension
Drivers 12" woofer; 5" midrange; 1¾" tweeter
Response 35 Hz to 20 kHz, ±3 dB re 88 dB

Crossover 800 Hz; 2.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Controls Midrange and tweeter L-pad controls
Features Low stored energy loudspeakers

4 Mk II

Price \$80/pr.
Dimensions 19½H x 11¼W x 8½D
Weight 21 lbs. 10 oz.
Type Acoustic suspension
Drivers 8" woofer; 1¾" tweeter
Response 60 Hz to 15 kHz, ±5 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 3.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 50 watts (17 dBW)

DESIGN SERIES

940

Price \$440/pr.
Dimensions 45¾H x 15W x 12D
Weight 82 lbs. 2 oz.
Type VARI-Q® (Infinite baffle/ported)
Drivers 12" woofer; 5" midrange; 1½" LPF dome tweeter; 1" LPF dome supertweeter
Response 30 Hz to 22 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 750 Hz; 2.3 kHz; 5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 250 watts (24 dBW)
Controls Midrange, tweeter, and supertweeter; L-pad controls
Features Low stored energy loudspeakers

930

Price \$380/pr.
Dimensions 28¼H x 15W x 12D
Weight 58 lbs. 6 oz.
Type VARI-Q® (Infinite baffle/ported)
Drivers 12" woofer; 5" midrange; 1½" LPF dome tweeter; 1" LPF dome supertweeter
Response 33 Hz to 22 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 750 Hz; 2.3 kHz; 5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Controls Midrange, tweeter, and supertweeter; L-pad controls
Features Low stored energy loudspeakers

900

Price \$320/pr.

Dimensions 28¼H x 15W x 12D
Weight 55 lbs.
Type VARI-Q® (Infinite baffle/ported)
Drivers 10" woofer; 5" midrange; 1½" LPF dome tweeter
Response 35 Hz to 20 kHz, ±3 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 750 Hz; 2.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 125 watts (21 dBW)
Controls Midrange and tweeter L-pad controls
Features Low stored energy loudspeakers

Models also available

HD-660, \$270/pr.; HD-550, \$200/pr.; 6 MkII, \$140/pr.; 5 MkII, \$115/pr.; 920, \$380/pr.

MARTIN

Eastman Sound Mfg. Co., Inc.
 Rt. #295 & Harmony Road
 Mickleton, N.J. 08056

TL-4050

Price \$650
Dimensions 52½H x 12½W x 11¼D
Weight 84 lbs.
Type Dual transmission line
Drivers Two 11" woofers; 5" cloth curvilinear midrange; 1" dome tweeter
Response 28 Hz to 22 kHz, ±4 dB re 92 dB SPL at 1 meter at 1 watt
Crossover 100 Hz; 900 kHz; 4 kHz
Impedance 8 ohms
Min. power 100 watts (20 dBW)
Max. power 300 watts (24.75 dBW)
Controls Midrange; tweeter
Features Newly designed enclosures, using direct-coupled highly-computed line of constant width, trimmed with port tube to better maintain basic relationship between mass of woofer cone and trimming tube

Magnificat

Price \$449
Dimensions 37½H x 18W x 14D
Weight 86 lbs.
Type Acoustic suspension
Drivers Two 12" woofers; 5" convex midrange; two 2" polyaxial tweeters
Response 28 Hz to 20 kHz re 92 dB SPL at 1 meter at 1 watt
Crossover 500 Hz; 4 kHz
Impedance 4 ohms
Min. power 35 watts (15.5 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter
Features Drivers of varied design and band-

width cover entire audible range and beyond; each includes a large and efficient voice coil and magnet structure

TL-2050

Price \$350
Dimensions 29½H x 9½W x 10D
Weight 45 lbs.
Type Transmission line
Drivers 8" woofer; 1" dome tweeter
Response 36 Hz to 22 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 1.2 kHz
Impedance 8 ohms
Min. power 35 watts (15.5 dBW)
Max. power 100 watts (20 dBW)
Controls None
Features Same as model TL-4050

Gamma Gold 3000M

Price \$329
Dimensions 25¼H x 14W x 11¼D
Weight 55 lbs.
Type Bias port
Drivers 10" heavy-duty butyl woofer; soft-dome midrange; soft-dome tweeter
Response 34 Hz to 20 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 900 Hz; 4.4 kHz
Impedance 8 ohms
Min. power 35 watts (15.5 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange/tweeter

Gamma 315X

Price \$289
Dimensions 27H x 15½W x 11¼D
Weight 50 lbs.
Type Acoustic suspension
Drivers 15" woofer; 5" midrange; 2" polyaxial tweeter
Response 30 Hz to 20 kHz re 90 dB SPL at 1 meter at 1 watt
Crossover 600 Hz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 75 watts (18.75 dBW)
Controls Midrange/tweeter

Gamma 310X

Price \$219
Dimensions 21¾H x 12¼W x 10D
Weight 37 lbs.
Type Acoustic suspension
Drivers 10" woofer; 5" convex midrange; 2" polyaxial tweeter
Response 36 Hz to 18 kHz re 91 dB SPL at 1 meter at 1 watt
Crossover 900 Hz; 4.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 60 watts (11.75 dBW)
Controls Midrange/tweeter
Features Handcrafted

Gamma Gold 2006M

Price \$129
Dimensions 13H x 18½W x 9D
Weight 17 lbs. 8 oz.
Type Bias port
Drivers 6½" woofer; dome tweeter
Response 40 Hz to 20 kHz, ±4 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 75 watts (18.75 dBW)
Controls Tweeter

Gamma 204X

Price \$99

Dimensions 11H x 6½W x 7D
Weight 9 lbs.
Type Acoustic suspension
Drivers 5" long-throw woofer; 3" phenolic tweeter
Response 50 Hz to 18 kHz re 87 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 40 watts (16 dBW)
Controls Tweeter

Models also available

TL-3050, \$550; Gamma 412X, \$269; TL-1650, \$250; Gamma Gold 2008M, \$159; Gamma 308X, \$139; Gamma 208X, \$119

MATRECS

Matrecs Industries
805 Woodman Ave.
Winslow, Ill. 61089

MA-130

Price \$179.50
Dimensions 24H x 15W x 9½D
Weight 37 lbs.
Type Acoustic suspension
Drivers 12" woofer; 1" tweeter; 6" midrange
Response 35 Hz to 22 kHz
Crossover 1 kHz; 5 kHz
Impedance 8 ohms
Min. power 8 watts (9 dBW)
Max. power 75 watts (18.75 dBW)
Controls 6" isolated midrange/tweeter level control

MA-211

Price \$173.50
Dimensions 32¾H x 14¼W x 10½D
Weight 40 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1¾" tweeter; 4½" midrange
Response 40 Hz to 22 kHz
Crossover 2.5 kHz; 5 kHz
Impedance 8 ohms
Min. power 8 watts (9 dBW)
Max. power 50 watts (17 dBW)
Controls Midrange; tweeter
Features Passive radiator; ferrofluid in voice coil gap dissipates heat

MA-103

Price \$65.50
Dimensions 20H x 12W x 9½D
Weight 18 lbs. 8 oz.
Type Acoustic suspension
Drivers 10" woofer; 3" tweeter
Response 35 Hz to 22 kHz
Crossover 5 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 35 watts (15.5 dBW)

MA-83

Price \$48.50
Dimensions 18½H x 7½W x 11¼D
Weight 14 lbs.
Type Acoustic suspension
Drivers 8" woofer; 3" tweeter
Response 35 Hz to 20 kHz
Crossover 5 kHz
Impedance 8 ohms
Min. power 2 watts (3 dBW)
Max. power 25 watts (14 dBW)

Models also available

MA-105, \$165.50; MA-124, \$131.50

McINTOSH

McIntosh Loudspeaker Division
2 Chambers St.
Binghamton, N.Y. 13903

XR-7

Price \$1,099
Dimensions 40¼H x 19½W x 14¾D
Weight 118 lbs.
Type Acoustic suspension
Drivers Two 12" woofers; 8" lower midrange; two 1½" dome upper midranges; four 2½" coaxial supertweeters
Response 20 Hz to 20 kHz
Crossover 250 Hz; 1.4 kHz; 7 kHz
Impedance 8 ohms
Min. power 30 watts (14.75 dBW)
Max. power 300 watts (24¾ dBW) peak
Features McIntosh environmental equalizer may be used

XR-6

Price \$749
Dimensions 35 13/16H x 17½W x 13D
Weight 81 lbs.
Type Acoustic suspension
Drivers 12" woofer; 8" lower midrange; 1½" dome upper midrange; 1" dome tweeter
Response 20 Hz to 20 kHz
Crossover 250 Hz; 1.4 kHz; 7 kHz
Impedance 8 ohms
Min. power 30 watts (14.75 dBW)
Max. power 200 watts (23 dBW) Peak
Features McIntosh environmental equalizer may be used

ML-10C

Price \$319
Dimensions 25H x 12 13/16W x 12¾D
Weight 47 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1½" dome midrange; coaxial super tweeter
Response 20 Hz to 20 kHz, 89 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 7 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW)
Features McIntosh environmental equalizer may be used

Models also available

XR-5, \$599; XR-3, \$425

MCS® SERIES

J.C. Penney
1301 Ave. of the Americas
New York, N.Y. 10019

8228

Price \$400
Dimensions 36½H x 16W x 10½D
Weight 100 lbs.
Type 12" woofer; two 2" soft-dome midranges; 1" soft-dome tweeter
Drivers Air suspension
Crossover 600 Hz; 2 kHz
Impedance 8 ohms
Min. power 50 watts (17 dBW)
Max. power 150 watts (21.75 dBW)
Controls Mid/tweeter controls
Features Ferrofluid cooled elements; built-in stand; removable grille

8226

Price \$200

Dimensions 26H x 14½W x 10½D
Weight 46 lbs.
Type Bass reflex
Drivers 12" bass woofer; 1½" soft-dome midrange; 2" cone tweeter
Crossover 600 Hz; 6 kHz (-12 dB/octave)
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 60 watts (17.75 dBW)
Controls Tweeter; midrange
Features Removable grille

Models also available
 8227, \$300

MICRO-ACOUSTICS
Micro-Acoustics Corp.
8 Westchester Plaza
Elmsford, N.Y. 10523

FRM-1AX

Price \$225
Dimensions 25¾H x 15¾W x 12¾D
Weight 40 lbs.
Type Acoustic suspension
Drivers Five 1¼" drivers mounted in a Pen-ta-Axis array; one 10" woofer with heavy-duty dynamic assembly
Response 32 Hz to 18 kHz, ±4 dB
Crossover 1.7 kHz
Impedance 8 ohms
Min. power 18 watts (12.5 dBW) (at 8 ohms) continuous
Max. power 70 watts (18.5 dBW) (at 8 ohms) continuous
Controls Tweeter (adjusts center on-axis tweeters); dispersion control (ad-justs four surrounding off-axis tweeters simultaneously)
Features Full 10-year warranty; tweeter pro-tection circuit

FRM-3AX

Price \$139.50
Dimensions 22W x 12¾H x 9½D
Weight 24¼ lbs.
Type Vented
Drivers One 2" tweeter pivoted on vari-axis dispersion assembly; one 8" woofer operating into a twin-ducted port
Response 45 Hz to 15 kHz, ±4 dB
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 7 watts (8.5 dBW) (at 8 ohms) con-tinuous
Max. power 50 watts (17 dBW) (at 8 ohms) con-tinuous
Controls High-frequency driver rotates for optimum dispersion
Features Full 10-year warranty; tweeter pro-tection circuit

MS-1

Price \$135/pr.
Dimensions 4H x 9¾W x 5¼D
Weight 21 lbs. 5 oz.
Drivers Four 1¼" drivers
Crossover 3.5 kHz; 7 kHz
Impedance 16 ohms
Min. power 5 watts (7 dBW)
Max. power 60 watts (17.75 dBW)
Features Full 5-year warranty

Models also available
 FRM-2AX, \$180

MITSUBISHI
Melco Sales, Inc.
3030 E. Victoria St.
Compton, Calif. 90221

MS-40

Price \$550
Dimensions 34¾H x 15¾W x 14¼D
Weight 77 lbs.
Type Acoustic suspension
Drivers 12" honeycomb woofer; 4" cone midrange; 1½" semi-dome tweeter
Response 25 Hz to 20 kHz, 87 dB SPL at 1 meter at 1 watt
Crossover 600 Hz; 5 kHz
Impedance 6 ohms
Min. power 30 watts (14.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls Midrange; tweeter
Features Edgeless cabinet and grille; mesh screen protection for midrange and tweeter; over-load protection circuit with LED indicator and mute function; mirror-image pairs

MS-30

Price \$395
Dimensions 26¾H x 15¾W x 13½D
Weight 55 lbs.
Type Acoustic suspension
Drivers 12" honeycomb-cone woofer; 4" cone midrange; 1¼" tweeter
Response 30 Hz to 20 kHz
Crossover 800 Hz; 5 kHz
Impedance 6 ohms
Min. power 30 watts (14.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls Midrange; tweeter
Features Overload-protection circuit; edge-less cabinet and grille

MS-10

Price \$165
Dimensions 22½H x 12¾W x 11½D
Weight 32 lbs.
Type Acoustic suspension
Drivers 10" honeycomb-cone woofer; 2" cone tweeter
Response 35 Hz to 20 kHz
Crossover 1.5 kHz
Impedance 6 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter
Features Overload-protection circuit; edge-less cabinet and grill

Models also available
 MS-20, \$275

MONITOR
General Audio Corp.
3504 Hillcroft
Houston, Tex, 77027

Monitor M-1000

Price \$500
Dimensions 57¾H x 16W x 13¾D
Weight 65 lbs.
Type Vented
Drivers Two 10" bass drivers; two 4" frame cone drivers; four 3½" phenolic ring tweeters
Response 20 Hz to 20 kHz
Crossover 900 Hz; 1.5 kHz; 5 kHz; 6 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 80 watts (19 dBW)

Monitor Mark IV

Price \$279.95
Dimensions 26H x 15½W x 12¾D
Weight 40 lbs.
Type Vented
Drivers 12" bass driver; two 4½" frame cone drivers; 3½" phenolic ring tweeter
Response 20 Hz to 20 kHz
Crossover 850 Hz; 3 kHz; 6 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 65 watts (18 dBW)

Monitor Mark II

Price \$209.95
Dimensions 23H x 14W x 10D
Weight 29 lbs.
Type Vented
Drivers 10" bass driver; 4½" frame cone driver; 3½" phenolic ring tweeter
Response 26 Hz to 20 kHz
Crossover 1 kHz; 3.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 35 watts (15.5 dBW)

Models also available

Monitor Mark III, \$239.95

MORDAUNT-SHORT
Mordaunt-Short, Inc.
1919 Middle Country Rd.
Centereach, N.Y. 11720

Signifer

Price \$1,480/pr. including matching stand
Dimensions 31¾H x 15¾W x 13¾D
Weight 64 lbs.
Type Three-way reflex
Drivers 20" woofer; 5 2/5" midrange; 1" wide-dispersion synthetic-dome tweeter
Response 38 Hz to 25 kHz, ±2 dB
Crossover 500 Hz; 4 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 250 watts (24 dBW)
Controls Bass; treble

Pageant Series 2

Price \$495/pr.
Dimensions 21H x 13W x 9D
Weight 21 lbs.
Type Bass reflex
Drivers Woofer-midrange; synthetic-dome tweeter
Response 25 Hz; 25 kHz
Crossover 3.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter
Features Walnut or teak wood finish; availa-ble with matching stands

Carnival Series 2

Price \$275/pr.
Dimensions 15¾H x 9½W x 5¾D
Weight 11 lbs. 9 oz.
Type Dynamic
Drivers 8" midrange; 2¾" paper-cone tweeter
Response 85 Hz to 17 kHz, ±3 dB
Crossover 3.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 80 watts (19 dBW)
Features Walnut or teak wood finish

Models also available

Festival Series 2, \$385/pr.

NAGRA

Nagra Magnetic Recorders, Inc.

19 W. 44th St.
New York, N.Y. 10036

DSM

Price \$1,297
Dimensions 9 $\frac{3}{4}$ "H x 10 $\frac{3}{4}$ "W x 5 $\frac{1}{4}$ "D
Weight 13 lbs. 14 oz.
Type Acoustic suspension
Drivers Two cone
Response 60 Hz to 15 kHz, ± 3 dB
Crossover 2.2 kHz
Impedance 8 ohms
Features Built-in amp

NEAL-FERROGRAPH

Neal-Ferrograph
652 Glenbrook Road
Glenbrook, Conn. 06906

S-23

Price \$416
Dimensions 17 $\frac{3}{8}$ "H x 7 $\frac{1}{2}$ "W x 11"D
Weight 19 lbs. 8 oz.
Type Acoustic suspension with internal labyrinth
Drivers Two 4" long-throw roll surround; 1" soft dome
Response 65 Hz to 20 kHz, ± 4 dB re 90 dB SPL at 1 meter at 1 watt
Impedance 6 ohms (nominal)
Min. power 10 watts (10 dBW)
Max. power 35 watts (15.5 dBW)
Features Walnut or teak veneer; crossover allows one woofer to switch over to midrange

NORDMENDE

Sterling Hi-Fidelity, Inc.
22-20 40th Ave.
Long Island City, N.Y. 11101

LB-26

Price \$100/pr.
Dimensions 9H x 6W x 5D
Weight 4 lbs.
Type Dynamic
Drivers 5"; 1 $\frac{3}{4}$ "
Response 50 Hz to 20 kHz
Impedance 4/8 ohms
Min. power 3 watts (4.75 dBW)
Max. power 15 watts (11.75 dBW)

LB-25

Price \$80/pr.
Dimensions 9H x 6W x 5D
Weight 3 lbs. 12 oz.
Type Dynamic
Drivers One 5"
Response 50 Hz to 15 kHz
Crossover 7.5 kHz
Impedance 4/8 ohms
Min. power 3 watts (4.75 dBW)
Max. power 15 watts (11.75 dBW)

NORMAN LABORATORIES

Norman Laboratories, Inc.
2278 Industrial Blvd.
Norman, Okla. 73069

Nine

Price \$470
Dimensions 45 $\frac{1}{2}$ "H x 15 $\frac{1}{2}$ "W x 15"D
Weight 75 lbs.
Type Acoustic suspension
Drivers Three 10" woofers; three 1" tweeters
Response 35 Hz to 20 kHz, ± 3 dB (1.5 kHz to 20 kHz, ± 2 dB)
Crossover 1.5 kHz
Impedance 4 ohms
Min. power 30 watts (14.75 dBW)
Max. power 70 watts (18.5 dBW) continuous
Controls Tweeter; woofer
Features Rear-firing third woofer operates in either acoustic or passive radiator mode for differing bass outputs; tweeter-protection circuit breaker; magnetic damping fluid in tweeters

Ten

Price \$310
Dimensions 37 $\frac{1}{2}$ "H x 15W x 13D
Weight 60 lbs.
Type Acoustic suspension
Drivers Two 10" woofers; two 1" tweeters
Response 40 Hz to 20 kHz, ± 3 dB (1.5 kHz to 20 kHz, ± 2 dB)
Crossover 1.5 kHz
Impedance 4 ohms
Min. power 30 watts (14.75 dBW)
Max. power 70 watts (18.5 dBW) continuous
Controls Tweeter
Features Tweeter-protection circuit breaker; magnetic damping fluid in tweeters

Eight

Price \$140
Dimensions 23H x 12W x 10D
Weight 28 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1" tweeter
Response 45 Hz to 20 kHz, ± 4 dB (1.5 kHz to 20 kHz, ± 2 dB)
Crossover 1.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 35 watts (15.5 dBW) continuous
Controls Tweeter 3-position
Features Magnetic damping fluid in tweeter

Models also available

Seven, \$220

OHM ACOUSTICS

OHM Acoustics Corp.

241 Taaffe Place
Brooklyn, N.Y. 11205

F

Price \$950
Dimensions 44H x 17 $\frac{3}{4}$ "W x 17 $\frac{3}{4}$ "D (bottom); 13W x 13D (top)
Weight 80 lbs.
Type Walsh; sealed system
Drivers 12" Walsh driver
Response 35 Hz to 19 kHz, ± 4 dB re 90 dB SPL
Impedance 4 ohms
Min. power 56 watts (17.5 dBW)
Max. power 150 watts (21.75 dBW) continuous above 1 kHz
Features Protective fused; 10 lbs. 4 oz. magnetic structures; 3" voice coil

I

Price \$675
Dimensions 31H x 15 $\frac{1}{2}$ "W x 16D
Weight 76 lbs.
Type Vented with subwoofer
Drivers 12" subwoofer; 8" woofer; 2" low tweeter; two 1" dome tweeters

Response 35 Hz to 19 kHz, $\pm 3\frac{1}{2}$ dB
Crossover 100 Hz; 2 kHz; 10 kHz
Impedance 8 or 4 ohms
Min. power 10 watts (10 dBW)
Max. power 1,000 watts (30 dBW)
Controls Four (1 for each tweeter and for 8" woofer)
Features Walnut, oak, teak, and black cabinets; omnidirectional response

N Subwoofer

Price \$340
Dimensions 15H x 16W x 15D
Type Dual subwoofer with passive radiators
Drivers Two 8" woofers; two 12" passive radiators
Response 32 Hz to 140 kHz, ± 4 dB re 89 dB SPL at 1 meter at 1 watt
Crossover 140 Hz
Impedance 8/4 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls Level-matching
Features Built-in passive crossover for both channels in one walnut veneer enclosure

L

Price \$185
Dimensions 20H x 12W x 10D
Weight 33 lbs. 8 oz.
Type Vented
Drivers 8" woofer; 2" low tweeter; 2" high tweeter
Response 42 Hz to 20 Hz, ± 4 dB
Crossover 1.7 kHz; 10 kHz
Impedance 8 or 4 ohms
Min. power 8 watts (9 dBW) for approx. 100 dB SPL at 3'
Max. power 100 watts (10 dBW)
Controls Two (one for each tweeter)
Features Quasi third-order Butterworth filter; optimally vented enclosure; oiled walnut veneer

M

Price \$140
Dimensions 7 $\frac{1}{8}$ "H x 4 $\frac{1}{2}$ "W x 4 $\frac{1}{2}$ "D
Type Vented
Drivers 4" woofer; 1" dome tweeter
Response 120 Hz to 20 kHz, ± 4 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 3.5 kHz
Impedance 4 ohms
Min. power 5 watts (7 dBW)
Max. power 100 watts (20 dBW)
Controls None
Features Black metal cabinet with bracket

Models also available

H, \$360; C-2, \$275; E, \$120

R.W. OLIVER

R.W. Oliver Electronics, Ltd.
580 E. Dobbie Ave.
Winnipeg, Manitoba R3K 1G4

Thor-II Center-Channel Subwoofer

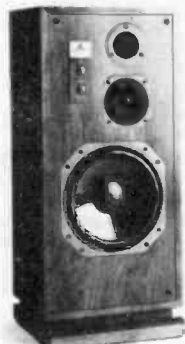
Price \$895 (dependent on finish)
Dimensions 18H x 24W x 24D
Weight 112 lbs.
Type Self-powered motional feedback subwoofer
Drivers Two 12" high-power long-throw
Response 15 Hz to 100 Hz, ± 3 dB
Crossover 50 to 100 Hz (variable)
Impedance 10K ohms
Max. power 120 dB SPL (acoustic power)
Controls Continuously variable bandwidth (low frequency, 15 to 50 Hz; high frequency, 50 to 100 Hz) sensitivity control; limiter on/off



Linn DMS Isobarik



Mordaunt-Short Signifier



Mitsubishi MS-40



Ohm F



Phase Research R

Features Integral amplification with motional feedback and limiting; summing amplifier combines left and right channels; selection of inlaid stone tops

Model 3

Price \$400
Dimensions 30H x 13W x 10D
Weight 42 lbs.
Type Tuned ducted port
Drivers Two high-power 10" woofers; one 2" x 6" horn tweeter
Crossover 3.5 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 150 watts (22 dBW)
Features Tailored response for disco and PA application; protective metal mesh under foam grille; compact

Models also available

Model 7 Speaker, \$280

OLSON

Olson Electronics
260 S. Forge
Akron, Ohio 44327

FR-3

Price \$400
Dimensions 27H x 18W x 12D
Weight 55 lbs.
Type Vented
Drivers 12" woofer; 3" upper midrange; 5" midrange; 1" extended tweeter
Response 32 Hz to 22.5 kHz, ±2½ dB
Crossover 600 Hz; 4 kHz; 7.8 kHz
Impedance 6.1 ohms
Min. power 20 watts (13 dBW)
Max. power 80 watts (19 dBW)
Controls Midrange; high range; direct/reflecting adjusts
Features Velocity labrinth

SP-580 Pedestal Tower II

Price \$349.98
Dimensions 38H x 13½W x 13½D
Weight 60 lbs.
Type Acoustic suspension
Drivers Two 8" woofers; two 5" midranges; two 2¼" tweeters
Response 50 Hz to 22 kHz
Crossover 1.5 kHz; 5 kHz
Impedance 8 ohms
Min. power 6 watts (7.75 dBW)
Max. power 50 watts (17 dBW)
Controls L-pad midrange and tweeter
Features Both tweeters have silicone-cooled voice coils

SP-579 "Acoust Aire IV"

Price \$169.98
Dimensions 22½H x 13½W x 10½D
Weight 38 lbs.
Type Acoustic suspension
Drivers 10" woofer; 5" midrange; 2¼" tweeter
Response 40 Hz to 22 kHz
Crossover 2.2 kHz; 6 kHz
Impedance 8 ohms
Min. power 4 watts
Max. power 25 watts
Controls L-pad midrange and tweeter
Features LC crossover

Models also available

SP-585 "Acoust Aire IV", \$219.98

ONKYO

Onkyo U.S.A. Corp.
42-07 20th Ave.
Long Island City, N.Y. 11105

240

Price \$250
Dimensions 27H x 16½W x 13D
Weight 45 lbs.
Type Acoustic suspension
Drivers 15" woofer; 4" carbon-fiber midrange driver; 1" titanium dome tweeter
Response 45 Hz to 20 kHz, ±5 dB re 93 dB SPL at 1 meter at 1 watt
Crossover 700 Hz; 4.5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW) continuous
Controls Midrange; tweeter

160

Price \$165
Dimensions 22H x 13½W x 12¾D
Weight 30 lbs.
Type Acoustic suspension
Drivers 12" woofer; 2¾" cone tweeter with duralumin center cap
Response 50 Hz to 20 kHz, ±5 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 80 watts (19 dBW) continuous
Controls Tweeter

OPTONICA

Sharp Electronics Corp.
10 Keystone Place
Paramus, N.J. 07652

CP-5151

Price \$400
Dimensions 28H x 16W x 13¾D
Weight 61 lbs. 8 oz.
Type Acoustic suspension
Drivers 12" woofer; 2" dome midrange; horn-loaded ribbon tweeter
Response 30 Hz to 50 kHz
Crossover 500 Hz; 6 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 90 watts (19.5 dBW)
Controls Midrange; tweeter
Features Crossover has switchable 30 kHz filter; speaker may be triamplified

CP-2121

Price \$210
Dimensions 28¾H x 14½W x 12¾D
Weight 33 lbs.
Type Passive radiator
Drivers 10" woofer; 3" cone tweeter
Response 40 Hz to 20 kHz
Crossover 1.2 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 50 watts (17 dBW)

PEDERSON ACOUSTICS

Pederson Acoustics
Box 47
Chestnut Hill, Mass. 02167

HF-2

Price \$7,500/pr.
Dimensions 48H x 32W x 26D
Weight 400 lbs.
Type Direct radiator/folded horn
Drivers Three dynamic (optional ribbon tweeter)
Response 20 Hz to 20 kHz
Crossover 200 Hz; 3 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 250 watts (24 dBW)

PETROFF LABS

Petroff Labs
11436 Victoria Ave.
Los Angeles, Calif. 90066

PL-6D Dipole Panel

Price \$500/pr.
Dimensions 42H x 12W x 4½D
Weight 30 lbs.
Type Dipole radiating line-source in box-less configuration

Drivers Four 4½" midranges; one 2" tweeter
Response 100 Hz to 20 kHz, ±2 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 100 Hz; 5 kHz
Impedance 8 ohms
Min. power 40 watts (16 dBW)
Max. power 200 watts (23 dBW)
Controls High-frequency contour
Features Must be used with PL-GW subwoofer; crossovers included; Biamping not required; total system price \$598 with subwoofer

PL-6W Subwoofer

Price \$198
Dimensions 14H x 25½W x 15½D
Weight 50 lbs.
Type Acoustic suspension
Drivers Two 10" mass-loaded woofers
Response 30 Hz to 100 Hz, ±4 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 100 Hz
Impedance 8 ohms
Min. power 50 watts (16 dBW)
Max. power 200 watts (23 dBW)
Features Includes two internal 100 Hz passive crossovers; smoked glass top inlay

PHASE RESEARCH Phase Research Corp. 3207 Oradell Dallas, Tex. 75220

"R"

Price N/A
Dimensions 26H x 13W x 14D
Weight 48 lbs.
Type Modified transmission line
Drivers 8" woofer; 1½" dome midrange tweeter
Response 38 Hz to 20 kHz, ±3.5 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 1.8 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 250 watts (24 dBW)
Features Time-phased; mirror imaged; low diffraction; fiberwood construction; multiple internal bracing; high power resistors; hickory vinyl finish; 2½% tolerance level crossovers

"RT"

Price N/A
Dimensions 42H x 13W x 12D
Weight 70 lbs.
Type Modified transmission line
Drivers 8" woofer; 1½" dome midrange-tweeter
Response 32 Hz to 20 kHz, ±3.5 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 250 watts (24 dBW)
Features Time-phased; mirror-imaged; low diffraction; fiberwood construction; multiple internal bracing; high power resistors 2% tolerance level crossovers; walnut veneer finish

PHILIPS Philips High Fidelity Laboratories, Ltd. P.O. Box 2208 Fort Wayne, Ind. 46801

RH-545

Price \$1,500
Dimensions 25½H x 17W x 12½D

Weight 67 lbs.
Type Acoustic suspension with triamplification
Drivers 12" high compliance woofer; 2" dome midrange; 1" dome tweeter
Response 20 Hz to 20 kHz
Crossover 500 Hz; 3 kHz
Min. power Can be driven from preamp
Max. power Internal amplifiers
Controls Bass cut/boost; treble rolloff; treble-frequency-selection switch; 3 room-correction filter switches; channel-selector switch; automatic on/off switch; input-sensitivity control
Features Motional feedback system

RH-544

Price \$400
Dimensions 15¾H x 11¼W x 8½D
Weight 26 lbs.
Type Acoustic suspension with biamplification
Drivers 8" high-compliance woofer; 2" dome midrange; 1" dome tweeter
Response 35 Hz to 20 kHz
Crossover 500 Hz; 400 Hz
Min. power Can be driven from preamp
Max. power Internal amplifiers
Controls High-frequency rolloff; input sensitivity; automatic on/off switch; channel-selector switch
Features Motional feedback system

AH-476

Price \$240
Dimensions 26H x 13¾W x 11½D
Weight 42 lbs.
Type Acoustic suspension
Drivers 10" high-compliance woofer; 2" dome midrange; 1" dome tweeter
Response 35 Hz to 20 kHz
Crossover 1.5 kHz; 5.5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 60 watts (17.75 dBW)
Controls Midrange

SJ-2932

Price \$130
Dimensions 27H x 14½W x 12½D
Weight 42 lbs.
Type Tuned port
Drivers 10" high-compliance woofer; two 5" cone midrange drivers; 1" dome tweeter
Response 46 Hz to 20 kHz
Crossover 2 kHz; 6 kHz
Impedance 8 ohms
Max. power 60 watts (17.75 dBW)

SJ-2931

Price \$100
Dimensions 24H x 13¾W x 11½D
Weight 31 lbs. 8 oz.
Type Tuned port
Drivers 10" high-compliance woofer; 1" dome tweeter
Response 47 Hz to 20 kHz
Crossover 4 kHz
Impedance 8 ohms
Max. power 45 watts (16.5 dBW)

Models also available

RH-567, \$450; AH-477, \$300; RH-541, \$250; AH-475, \$150; SJ-2930, \$150/pr.

PIONEER U.S. Pioneer Electronics Corp. 85 Oxford Drive Moonachie, N.J. 07074

HPM-150

Price \$550
Dimensions 38 25/32H x 17¾W x 17¾D
Weight 74 lbs. 14 oz.
Type Bass reflex
Drivers 15¾" carbon fiber cone woofer; 4" cone-type midrange; 1¾" cone tweeter; omnidirectional, horn-loaded, high polymer film supertweeter
Response 25 Hz to 25 kHz
Crossover 75 Hz; 2.6 kHz; 8.5 kHz
Impedance 8 ohms
Min. power 50 watts (17 dBW)
Max. power 300 watts (24.75 dBW)
Controls Midrange; tweeter

CS-99A

Price \$350
Dimensions 24¾H x 16½W x 11¾D
Weight 51 lbs. 11 oz.
Type Infinite baffle
Drivers 15" cone woofer; 5" cone midrange; 4" cone midrange; multicellular horn tweeter; 2 dome supertweeters
Response 25 Hz to 22 kHz
Crossover 800 Hz; 2 kHz; 5 kHz; 10 kHz
Impedance 8 ohms
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter

HPM-60

Price \$260
Dimensions 24H x 13¾W x 12½D
Weight 38 lbs. 8 oz.
Type Bass reflex
Drivers 10" carbon fiber cone woofer; 4" cone midrange; 1¾" cone tweeter; high polymer supertweeter
Response 35 Hz to 25 kHz
Crossover 1.2 kHz; 4 kHz; 12 kHz
Impedance 8 ohms
Min. power 30 watts (14.75 dBW)
Max. power 120 watts (20.75 dBW)
Controls Midrange; tweeter

Project 120

Price \$145
Dimensions 23H x 13W x 9¾D
Weight 26 lbs.
Type Bass reflex/ducted port
Drivers 10" cone woofer; 5" cone midrange; 1¾" cone tweeter
Response 30 Hz to 20 kHz
Crossover 1 kHz; 4 kHz
Impedance 8 ohms
Max. power 60 watts (17.75 dBW)

Project 60A

Price \$80
Dimensions 18½H x 10¾W x 8½D
Weight 12 lbs.
Type Bass reflex
Drivers 8" cone woofer; cone tweeter
Response 50 Hz to 20 kHz
Crossover 5 kHz
Impedance 8 ohms
Max. power 20 watts (13 dBW)

Models also available

HPM-100, \$350; HPM-40, \$180; Project 80, \$99

PLASMATRONIC Plasmatronic, Inc. 2460 Alamo, S.E., Suite 101 Albuquerque, N.M. 87106

Hill Type 1 Plasma System
Price \$7,000

Dimensions 57½H x 24½W x 20D
Weight 580 lbs./pr.
Type Plasma
Drivers Plasma; cone midrange; cone bass
Response 18 Hz to 30 kHz, ±3 dB re 107 dB SPL at 1 meter from one plasma driver
Crossover 120 Hz; 700 Hz
Impedance 8 ohms
Controls Plasma level; crossover point
Features Biamped with high amp crossover; VU meters; hi-lo balancing network

POLK
Polk Audio
1205 South Carey St.
Baltimore, Md. 21230

Real Time Array Model 12

Price \$359.95
Dimensions 46H x 15W x 12D (stand, 12H)
Weight 75 lbs.
Type Passive radiator
Drivers Two 6½" bass/midranges; 12" molded foam passive radiator; 1" vented HF radiator
Response 28 Hz to 21 kHz, ±2 dB re 96 dB SPL at 1 meter at 1 watt
Crossover 45 Hz; 3 kHz
Impedance 6 ohms
Min. power 10 watts (10 dBW)
Max. power 300 watts (24.75 dBW)
Controls Factory calibrated
Features Phase coherent design; open mounted HF radiator; plasticized drivers; optional stand

10A Monitor System

Price \$229.95
Dimensions 28H x 16W x 11½D
Weight 50 lbs.
Type Passive radiator
Drivers Two 6½" midrange drivers with 10" passive radiator; 1" vented dome tweeter
Response 30 Hz to 20.5 kHz, ±2 dB re 96 dB SPL at 1 meter at 1 watt
Crossover 60 Hz; 3 kHz
Impedance 6 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Controls Factory calibrated
Features Fused tweeter; optional stand; plasticized drivers

5A Bookshelf Monitor

Price \$124.95
Dimensions 21½H x 10½W x 8½D
Weight 29 lbs.
Type Passive radiator
Drivers 6½" midrange with 8" passive radiator; 1" dome tweeter
Response 40 Hz to 21 kHz, ±3 dB re 92 dB at 1 watt at 1 meter
Crossover 60 Hz; 3 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 60 watts (17.75 dBW)
Controls Factory calibrated
Features Same as Model 10A

Mini Monitor

Price \$109.95
Dimensions 13H x 6¼W x 4½D
Weight 10 lbs.
Type Passive radiator
Drivers 4½" bass/midrange driver with 4½" bass radiator; 1" dome tweeter
Response 60 Hz to 20.5 kHz, +2 dB re 92 dB SPL at 1 watt at 1 meter
Crossover 100 Hz; 3 kHz

Impedance 6 ohms
Min. power 5 watts (7 dBW)
Max. power 40 watts (16 dBW)
Features Optional mounting kit

Models also available

7B Monitor System, \$169.95

PRECEDENT

Precedent Audio Products, Inc.
306 E. Oliver St.
Baltimore, Md. 21202

PRECEDENT SERIES

MZ-Mod III

Price \$1,495/pr. (teak laminate); \$1,695/pr. (walnut veneer)
Dimensions 39H x 29W x 16D
Weight 125 lbs. ea.
Type Transmission line
Drivers 8" woofer; 5" midrange; ¾" tweeter
Response 40Hz to 20 kHz, ±2½ dB re 88 dB SPL at one 1 meter at 1
Crossover 600 Hz; 3.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter
Features Phase and time aligned; minimized diffraction areas

CYLINDER SERIES

Panorama

Price \$795/pr.
Dimensions 50H x 13½W x 13½D
Weight 40 lbs. ea.
Type Dynamic
Drivers One 8" woofer; one 2½" midrange; one 1" tweeter
Response 40 Hz to 20 kHz, ±2½ dB re 92 dB SPL at 1 meter at 1 watt
Crossover 800 Hz; 2.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Features Extremely efficient and superb polar response due to unique cylinder design; high-power handling

Vista

Price \$380/pr.
Dimensions 26H x 15¼W x 15¼D
Weight 30 lbs. ea.
Type Dynamic
Drivers One 8" woofer; one 1" tweeter
Response 50 Hz to 20 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 150 watts (21.75 dBW)
Features High-power handling; extremely efficient; superb polar response due to unique cylinder design; optional floor stands

Models also available

MZ-Mod II, \$747.50/pr.

PRESAGE

Presage Corp.
Dumaine Ave.
Nashua, N.H. 03060

Presage 4

Price \$600
Dimensions 42H x 15W x 15½D

Weight 65 lbs.
Type Passive radiator
Drivers 10" woofer; 4¼ cone midrange; 1" dome tweeter
Response 25 Hz to 20 kHz, ±3 dB
Crossover 470 Hz; 3.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 200 watts (23 dBW) continuous
Controls Tweeter; midrange

S-9

Price \$200
Dimensions 25H x 14W x 11D
Weight 38 lbs.
Type Bass reflex
Drivers 10" woofer; 1" dome tweeter
Response 35 Hz to 20 kHz, ±3 dB
Crossover 1.45 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 75 watts (18.75 dBW) continuous
Controls Tweeter; "bass-boost" switch to increase upper bass-midrange output by 4.5 dB

Presage 17

Price \$100
Dimensions 25¼H x 12½W x 12½D
Weight 23 lbs.
Type Bass reflex
Drivers 8" foam-edge woofer; 2" phenolic cone tweeter
Response 65 Hz to 18 kHz, ±4 dB re 92 dB SPL at 1 meter at 1 watt
Crossover 1.3 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 60 watts (17.75 dBW)

Models also available

Presage 5, \$350; Presage 15, \$120 (walnut grained vinyl); \$130 (oak or walnut veneer)

PSB

PSB Speakers

Box 144

St. Jacobs, Ont. NOB/2NO

BETA IIa

Price \$595
Dimensions 23H x 12W x 10½D
Weight 35 lbs.
Type Acoustic suspension
Drivers 1" soft cloth dome tweeter; 8" motional feedback woofer
Response 25 Hz to 20 kHz, ±2 dB
Impedance 4 ohms
Min. power 80 watts (19 dBW)
Controls Listening level (5-position); amp-matching C (11-position)
Features Motional feedback system using existing system amplifier; built-in infrasonic filter; fused

Passif IIa

Price \$295
Dimensions 29¼H x 13½W x 12¼D
Weight 35 lbs.
Type Passive radiator
Drivers 1" textile dome tweeter; 8" woofer; 10" passive radiator
Response 42 Hz to 20 kHz, ±2 dB
Crossover 2 kHz
Impedance 8 ohms
Min. power 40 watts (16 dBW)
Max. power 75 watts (18.75 dBW)
Features Real walnut veneer

Avanté IIa Walnut

Price \$170 (walnut); \$145 (vinyl)
Dimensions 19 1/2" H x 11" W x 10" D
Weight 25 lbs.
Type Bass reflex
Drivers 1" textile dome tweeter; 8" woofer
Response 60 Hz to 20 kHz, ± 2 dB
Crossover 1.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 50 watts (17 dBW)
Features Real walnut veneer

Models also available

Passif I, \$230 (walnut); \$195 (vinyl); Avantif II, \$100

PYRAMID

Pyramid Loudspeaker Corp.
131-15 Fowler Ave.
Flushing, N.Y. 11355

Metronome 3

Price \$1,700
Dimensions 34" H x 21 3/4" W x 15 3/4" D
Weight 100 lbs.
Type Acoustic suspension
Drivers Two 8" woofers; 4 1/2" midrange; 3" by 0.5" ribbon tweeter
Response 35 Hz to 35 kHz, ± 3 dB re 90 dB SPL at 1 meter at 1 watt
Impedance 6 ohms
Min. power 75 watts (18.75 dBW)
Max. power 300 watts (24.75 dBW)
Controls Switched high-range contour: +2 dB, flat, and "Far Field Curve"
Features Biampable with switch; requires no external crossover

Metronome 2W Subwoofer

Price \$1,600/pr.
Dimensions 25" H x 27 1/2" W x 16 1/2" D (truncated)
Weight 115 lbs.
Type Acoustic suspension
Drivers 14"
Response 29 Hz to 90 Hz, ± 3 dB re 87 dB SPL at 1 meter at 1 watt
Crossover 90 Hz
Impedance 8 ohms
Min. power 200 watts (23 dBW)
Max. power 800 watts (29 dBW)
Controls None
Features 2W available only with Metronome 2.

T-1 Ribbon Tweeter

Price \$1,175/pr.
Dimensions 4 3/4" H x 4 5/8" W x 7 3/4" D
Weight 8 1/2 lbs.
Type Ribbon
Drivers 3 3/4" x 3/4" ribbon
Response 3 kHz to 40 kHz, ± 3 dB re 93 dB SPL at 1 meter at 1 watt
Crossover 3 kHz
Impedance 12 ohms at 20 kHz
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Controls Five-position step attenuator, 2 dB/step, 8 dB total

Models also available

Metronome 2 Speaker, \$1,400/pr.

QYSONIC

Qysonic Research Corp.
920 S. Placentia Ave.
Placentia, Calif. 92670

Array

Price \$479
Dimensions 47 1/2" H x 12 1/2" W x 8 1/2" D
Weight 55 lbs.
Type Critical Alignment; Laminar flow vent
Drivers Two 8" woofers; 4 1/2" midrange; 2" tweeter; 1" (polar) dome supertweeter
Response 28 Hz to 22 kHz, ± 3 dB re 92 dB SPL at 1 meter at 1 watt
Crossover 800 Hz; 3 kHz; 8 kHz
Impedance 6 ohms
Min. power 30 watts (14.75 dBW)
Max. power 500 watts (27 dBW)
Controls Midrange; tweeter; polar supertweeter
Features Hardwood stand included

TAD II

Price \$225
Dimensions 29" H x 9" W x 6 1/2" D
Weight 25 lbs.
Type Critical Alignment Laminar flow vent
Drivers Two 6" woofers; 2" tweeter; 2" polar tweeter
Response 40 Hz to 25 kHz, ± 3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 2 Hz; 8 kHz
Impedance 6 ohms
Min. power 15 watts (11.75 dBW)
Max. power 120 watts (20.75 dBW)
Controls Tweeter

Micro

Price \$99
Dimensions 11" H x 4 1/2" W x 3 1/2" D
Weight 6 lbs.
Type Critical Alignment; terminated line
Drivers Two 3" woofers; 2" tweeter
Response 80 Hz to 18 kHz, ± 3 dB re 79 dB SPL at 1 meter at 1 watt
Crossover 3 kHz
Impedance 6 ohms
Min. power 8 watts (9 dBW)
Max. power 60 watts (17.75 dBW)

Models also available

Laug, \$229; Spree, \$140

REALISTIC

Radio Shack
2617 W. 7th St.
Ft. Worth, Texas 76107

Optimus T-200

Price \$259.95
Dimensions 34" H x 12 1/2" W x 12 1/2" D
Drivers Two 10" woofers; 6 1/2" midrange; two cone tweeters with horn assembly
Response 50 Hz to 20 kHz
Impedance 8 ohms
Max. power 150 watts
Controls 2 L-pads for treble and midrange
Features Tower design

Mach One

Price \$239.95
Dimensions 28 3/8" H x 17 5/8" W x 12" D
Weight 65 lbs.
Type Acoustic suspension
Drivers 15" woofer; midrange; horn tweeter
Response 20 Hz to 25 kHz
Crossover 1 kHz; 5 kHz
Min. power 25 watts (14 dBW)
Max. power 100 watts (20 dBW) peak
Controls Midrange; tweeter

Optimus 23

Price \$99.95
Dimensions 22 1/4" H x 12 3/8" W x 1 1/2" D
Weight 30 lbs. 3 oz.
Type Ported suspension
Drivers 10" woofer; one 3" tweeter
Response 20 Hz to 20 kHz, ± 4.5 dB
Crossover 1.2 kHz
Impedance 8 ohms
Min. power 7 watts (8.5 dBW)
Max. power 70 watts (18.5 dBW)
Controls Tweeter

Minimus 7

Price \$50
Dimensions 7" H x 4 1/2" W x 4 1/4" D
Weight 4 lbs. 8 oz.
Type Acoustic suspension
Drivers 4" high-compliance woofer; 1" extended range high-compliance dome tweeter
Response 50 Hz to 20 kHz, ± 5 dB
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 7 watts (8.5 dBW)
Max. power 40 watts (16 dBW) continuous

Models also available

Optimus T-100, \$179.95; Optimus 27, \$149.95; Optimus 10, \$140

REFERENCE

CBS Retail Stores
1301 65th St.
Emeryville, Calif. 94608

312L

Price \$269.95
Dimensions 31 3/4" H x 18" W x 13" D
Weight 48 lbs.
Type Acoustic suspension
Drivers 12" woofer; 6 1/2" cone midrange; 1" soft-dome tweeter
Response 32 Hz to 22 1/2 kHz, ± 4 dB
Crossover 600 Hz; 4 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Features Same as Model 208L

310L

Price \$179.95
Dimensions 28 3/4" H x 16" W x 11 1/2" D
Weight 42 lbs.
Type Acoustic suspension
Drivers 10" woofer; 6 1/2" cone midrange; 1" Mylar dome tweeter
Response 38 Hz to 20 kHz, ± 4 dB
Crossover 600 Hz; 4 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Features Same as Model 208L

208L

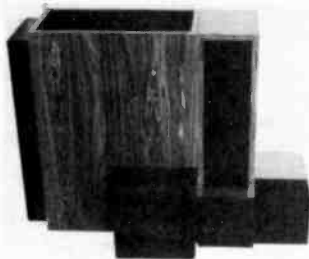
Price \$89.95
Dimensions 19 3/8" H x 14" W x 9" D
Weight 17 lbs.
Type Acoustic suspension
Drivers 8" woofer; 2 1/2" cone tweeter
Response 55 Hz to 20 kHz, ± 4 dB at 1 meter at 1 watt
Crossover 3 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Controls Preset
Features Fused tweeters

Models also available

228L, \$129.95



Polk Audio Real Time Array Model 12



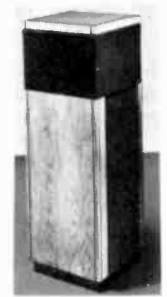
Precedent Mz-Mod III



PSB Beta IIa



Realistic Optimus T-200



RTR DR-1

ROGERS
Reference Monitor
International, Inc.
 2380 C Camino Vida Roble
 Carlsbad, Calif. 92008

XA-100/L-35B Reference Monitor System

Price \$2,300
Dimensions 32½H x 16½W x 18D
Weight 78 lbs.
Type Acoustic suspension
Drivers 12" woofer in each cabinet
Response 20 Hz to 150 Hz, ±3 dB re 96 dB SPL at 1 meter at 1 watt (sub-woofer); 45 Hz to 20 kHz, ±2 dB for L-35B
Impedance 8 ohms
Min. power 50 watts (17 dBW)
Max. power 100 watts (20 dBW)

Compact Monitor

Price \$630/pr.
Dimensions 20H x 11W x 10¾D
Weight 25 lbs.
Type Acoustic suspension
Drivers 8" Bextrene woofer; 1" fabric dome tweeter
Response 50 Hz to 20 kHz, ±3 dB re 96 dB SPL at 1 watt
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 80 watts (19 dBW)

LS 3/5a BBC Monitor

Price \$540/pr.
Dimensions 12H x 7½W x 6¾D
Weight 11 lbs. 8 oz.
Type Acoustic suspension
Drivers 4½" Bextrene bass/midrange; 1" dome tweeter
Response 70 Hz to 20 kHz, ±3 dB re 96 dB SPL at 1 meter at 1 watt
Crossover 3 kHz
Impedance 15 ohms
Min. power 25 watts (14 dBW)
Max. power 25 watts (14 dBW)
Features Designed by BBC

Models also available

Monitor 2, \$840

RTR
RTR Industries, Inc.
 8116 Deering Ave.
 Canoga Park, Calif. 91304

DR-1

Price \$1,495
Dimensions 49H x 16½W x 16½D
Weight 165 lbs.
Type Electrostatic/dynamic
Drivers One 12"; two 10" woofers; 14" diameter cylindrical electrostatic radiator

Response 30 Hz to 30 kHz, ±2 dB
Crossover 325 Hz
Impedance 8 ohms
Min. power 75 watts (18.75 dBW) for woofer section
Max. power 150 watts (21.75 dBW) for woofer section

Controls Electrostatic volume; treble
Features Internally contained power amp and electronic crossover control; direct-drive electrostatic radiator (325 Hz to 30 kHz range)

DAC/1

Price \$600
Dimensions 21¼H x 29½W x 28D
Weight 135 lbs.
Type Differential area coupler sub-woofer
Drivers 12" active woofer; two 15" passive couplers
Response 16 Hz to 150 Hz, ±1.5 dB
Crossover 120 Hz when used with PS/1; defeatable
Impedance 6 ohms
Min. power 40 watts (16 dBW)
Max. power 125 watts (21 dBW)
Controls Low-pass defeat switch

600D

Price \$600
Dimensions 48H x 16½W x 16½D
Weight 112 lbs.
Type Acoustic suspension
Drivers Two 12" woofers; two 1½" soft-dome midranges; two 1" soft-dome tweeters
Response 32 Hz to 20 kHz, ±2 dB re 91.5 dB SPL at 1 meter at 1 watt
Crossover 950 Hz; 10 kHz
Impedance 4 ohms
Min. power 25 watts (14 dBW)
Max. power 200 watts (23 dBW)
Controls Midrange; tweeter
Features Circuit breaker

ESR-15

Price \$400
Dimensions 19½H x 16½W x 16½D
Weight 48 lbs.
Type Electrostatic tweeter array
Drivers Fifteen 3" x 6" HF-50 electrostatic panels
Response 1.25 kHz to 20 kHz, ±2 dB
Crossover 1.25 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)

Max. power 100 watts (20 dBW)
Controls Tweeter; woofer
Features Circuit breaker

PS/1

Price \$325
Dimensions 21¾H x 5W (top) x 12¾W (bottom) x 8D
Weight 35 lbs.
Type Acoustic suspension
Drivers 8" woofer; 1½" soft-dome midrange; 1" soft-dome tweeter
Response 65 Hz to 20 kHz, ±2 dB re 90.5 dB SPL at 1 meter at 1 watt
Crossover 1.5 kHz; 9 kHz
Impedance 6 ohms
Min. power 25 watts (14 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter; high-pass filter defeat
Features Satellite speaker system; use independently or with DAC/1 subwoofer; pyramid shape

ESR-6

Price \$250
Dimensions 14½H x 14½W x 12D
Weight 23 lbs.
Type Electrostatic tweeter array
Drivers Six 3" x 6" HF-50 electrostatic panels
Response 1.5 kHz to 20 kHz, ±2 dB
Crossover 1.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 60 watts (17.75 dBW)
Controls Tweeter; woofer
Features Circuit breaker

G-10

Price \$190
Dimensions 25½H x 14¼W x 11D
Weight 44 lbs.
Type Vented
Drivers 10" woofer; 1" dome tweeter
Response 48 Hz to 20 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 6 ohms
Min. power 10 watts (10 dBW)
Max. power 80 watts (19 dBW)
Controls Tweeter level (continuously variable)
Features Same as G-200

Models also available

800D, \$600; 300D, \$400; G-200, \$270; 75D, \$250; EXP 8-V, \$100

SANSUI
Sansui Electronics Corp.
1250 Valley Brook Ave.
Lyndhurst, N.J. 07071

SP-L800

Price \$950
Dimensions 37 15/16H with caster rollers x 18 1/2W x 15 7/16D
Weight 94 lbs. 6 oz.
Type Bass reflex
Drivers Two 12" cone woofers; 2 3/4" horn tweeter
Response 30 Hz to 20 kHz
Crossover 1.5 kHz
Impedance 8 ohms
Max. power 300 watts (24.75 dBW)
Controls Tweeter
Features Sensitivity: 95 dB at 1 meter at 1 watt; biamp connections; genuine walnut veneer finish; dual-woofer linear-response system

SP-X9700

Price \$390
Dimensions 27 1/16H x 18 1/2W x 10 5/8D
Weight 44 lbs. 13 oz.
Type Bass reflex
Drivers 17" cone woofer; 8 3/16" cone midrange; two 6 11/16" x 2 5/16" horn tweeters; three 1 15/16" cone supertweeter
Response 22 Hz to 23 kHz, re 100 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 7 kHz; 15 kHz
Impedance 8 ohms
Max. power 280 watts (24.5 dBW)
Controls Midrange; tweeter; supertweeter (three-step level controller)
Features Genuine carved wood grille; walnut grain vinyl finish; particle board enclosure

SP-X7700

Price \$290
Dimensions 26 1/4H x 17 11/16W x 11 1/2D
Weight 37 lbs. 10 oz.
Type Bass reflex
Drivers 16" woofer; 4" cone midrange; 6 1/16 x 2" horn tweeter; two 2" cone supertweeters
Response 35 Hz to 22 kHz, re 97 dB SPL at 1 meter at 1 watt
Impedance 8 ohms
Max. power 160 watts (22 dBW)
Controls Tweeter
Features Genuine carved wood grille; walnut grain vinyl finish

SPA-3100

Price \$200
Dimensions 24 13/16H x 15 13/16W x 12D
Weight 38 lbs. 8 oz.
Type Acoustic suspension
Drivers 12" cone woofer; 5 1/2" cone midrange; 2" x 5" oval piezoelectric tweeter
Response 35 Hz to 22 kHz
Crossover 800 Hz; 2.5 kHz
Impedance 8 ohms
Max. power 85 watts (19.25 dBW)
Controls Midrange; tweeter
Features Circuit breaker; walnut grain vinyl finish; acoustically transparent black double knit grille

SPA-1100

Price \$100
Dimensions 22 13/16H x 13 3/16W x 11 1/4D
Weight 24 lbs. 12 oz.
Type Acoustic suspension
Drivers 10" cone woofer; 2" x 5" oval piezoelectric tweeter
Response 45 Hz to 22 kHz
Crossover 2.5 kHz

Impedance 8 ohms
Max. power 30 watts (14.75 dBW)
Features Same as SPA-3100

J-11

Price \$290/pr.
Dimensions 11 13/16H x 4 13/16W x 5 3/16D
Weight 6 lbs. 6 oz.
Type Bass reflex
Drivers 4" cone woofer; 1" dome tweeter; 4" concave passive radiator
Response 45 Hz to 20 kHz, 85 dB SPL at one meter at one watt
Crossover 2.5 kHz
Impedance 5 ohms
Max. power 60 watts (17.75 dBW)
Features Brushed aluminum finish

Models also available

SP-L700, \$680; Sp-X8700, \$335;
 SP-X6700, \$235; SPA-2100, \$150;
 J-33, \$450/pr

SARAS

Saras of America
4150 Glencoe Ave.
Venice, Calif. 90291

ST-200

Price \$550
Dimensions 42 1/2H x 14 1/2W x 13D
Weight 90 lbs.
Type Acoustic suspension
Drivers Two 10" woofers; 5" midrange; 1" convex tweeter
Response 30 Hz to 18 kHz, ± 2.5 dB
Crossover 500 Hz; 5 kHz
Impedance 8 ohms
Max. power 150 watts (21.75 dBW)
Controls None
Features Time alignment enclosure; third order Butterworth filters; LED power indicator; suspended grille-cloth panel

11

Price \$210
Dimensions 24H x 13 3/4W x 11 1/4D
Weight 48 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1" convex tweeter
Response 35 Hz to 18 kHz, ± 3.5 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 1.8 ohms
Controls None

Models also available

30A, \$350; 22, \$250

SCOTT

H. H. Scott, Inc.
20 Commerce Way
Woburn, Mass. 01801

Pro 100B

Price \$550
Dimensions 29 1/4H x 19W x 14 1/2D
Weight 67 lbs.
Type Air suspension
Drivers 15" woofer; two 4 1/2" cone midranges; two 1" dome tweeters
Response 36 Hz to 20 kHz, ± 4 dB re 94 dB SPL at 1 meter at 1 watt
Crossover 700 Hz; 3.5 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW)
Max. power 300 watts (24.75 dBW)
Controls Midrange; tweeter; dispersion
Features Bidirectional radiation

S196W

Price \$280
Dimensions 25 1/2H x 15W x 10 1/4D
Weight 42 lbs.
Type Air suspension
Drivers 12" woofer; 4 1/2" midrange; 1" dome tweeter
Response 38 Hz to 20 kHz, ± 4 dB re 96 dB SPL at 1 meter at 1 watt
Crossover 800 Hz; 3.5 kHz
Impedance 6 to 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 120 watts (20.75 dBW)
Controls Midrange; tweeter
Features Walnut veneer with flat lacquer; alcohol resistant finish; extra long voice coil

S188T

Price \$230
Dimensions 33 1/2H x 13W x 10 1/2D
Weight 57 lbs.
Type Air suspension
Drivers 10" woofer; 4 1/2" midrange; 1" dome tweeter
Response 38 Hz to 20 kHz, ± 4 dB re 95.4 dB SPL at 1 meter at 1 watt
Crossover 900 Hz; 3.5 kHz
Impedance 6 to 8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter
Features Tower design; extra long voice coil

S177B

Price \$120
Dimensions 19H x 11W x 9D
Weight 45 lbs.
Type Air suspension
Drivers 8" woofer; 5" midrange; 1 3/4" tweeter
Response 50 Hz to 18 kHz, ± 4 dB re 94 dB SPL at 1 meter at 1 watt
Crossover 1200 Hz; 3.5 kHz
Impedance 6 to 8 ohms
Min. power 7 watts (8.5 dBW)
Max. power 70 watts (18.5 dBW)
Features High compliance woofer with butyl rubber annulus; phenolic ring tweeter

S176B

Price \$90
Dimensions 18H x 10 1/2W x 8 1/2D
Weight 41 lbs.
Type Bass reflex with tuned port
Drivers 8" woofer; 1 3/4" tweeter
Response 60 Hz to 18 kHz, ± 4 dB re 93.5 dB SPL at one meter at one watt
Crossover 3.5 kHz
Impedance 6 to 8 ohms
Min. power 5 watts (7 dBW)
Max. power 60 watts (17.75 dBW)
Features High compliance woofer with butyl rubber annulus; phenolic ring tweeter

Models also available

S197B, \$280; S196B, \$250;
 S186B, \$200; 166B, \$120

SHAHINIAN

Shahinian Acoustics, Ltd.
4 Selden Court
Selden, N.Y. 11784

Obelisk

Price \$400 walnut; oak (teak, \$450; rosewood, \$500)
Dimensions 26 3/4H x 14W x 12D
Weight 50 lbs.
Type Hybrid transmission line with passive radiator

Drivers 8" woofer; 4" x 1" Mylar dome
Response 35 Hz to 18.5 kHz, +2, -3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 6 ohms
Min. power 25 watts (14 dBW)
Max. power 350 watts (25.5 dBW)
Controls None
Features Forty-eight-in. hybrid transmission line with 10" passive radiator

SHOWCO

Showco Manufacturing Corp.
1225 Round Table Drive
Dallas, Texas 75247

1718-S

Price \$1,005
Dimensions 88H x 49½W x 22¼D
Weight 300 lbs.
Type Pyramid loaded bass horn
Drivers One 18" woofer
Response 20 Hz to 100 Hz, ±4 dB re 101.5 dB SPL at 1 meter at 1 watt
Crossover 100 Hz (bi-amplified)
Impedance 8 ohms
Min. power 50 watts (17 dBW)
Max. power 500 watts (27 dBW)
Features Tower subwoofer

Pyramid S-200

Price \$399
Dimensions 42½H x 14½W x 14D
Weight 95 lbs.
Type Four-sided folded-horn midbass; acoustic suspension low bass
Drivers 8" and 12" woofers; 5" midrange; 2 dome tweeters
Response 28 Hz to 18 kHz, ±3 dB re 91.5 dB SPL at 1 meter at 1 watt
Crossover 200 Hz; 800 Hz; 5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter
Features Tower design

Models also available

Pyramid 1800, \$780; Pyramid 1500, \$630

SNELL ACOUSTICS

Snell Acoustics
10 Prince Place
Newburyport, Mass. 01950

Type A

Price \$840
Dimensions 46½H x 23¼W x 13D
Weight 97 lbs.
Type Acoustic suspension
Drivers 10" woofer; 4" midrange; 1" dome tweeter
Response 36 Hz to 18 kHz, ±1½ dB
Crossover 300 Hz; 2.5 kHz
Impedance 4 ohms
Min. power 80 watts (19 dBW)
Features Mirror-Imaged pairs; bi-amplification possible

SONIC SYSTEMS

Sonic Systems
6165 N. Rosemead Blvd.
Temple City, Calif. 91780

Tower

Price \$1,100

Dimensions 39¼H x 21½W x 19D
Weight 135 lbs.
Type Radial-slot port bass reflex
Drivers 12" woofer; two compression drivers
Response 30 Hz to 20 kHz, ±3 dB re 94 dB SPL at 1 meter at 1 watt
Crossover 1.2 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 350 watts (25.5 dBW)
Controls High-frequency section
Features Biplanar dispersion system; set up for biamping

Studio B-1

Price \$150
Dimensions 23½H x 12½W x 11¼D
Weight 30 lbs.
Type Acoustic suspension
Drivers 8" cone woofer; 4" cone midrange; 1" soft-dome tweeter
Response 45 Hz to 20 kHz, ±3 dB
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange (variable)
Features Walnut veneer finish

Models also available

Studio B-3, \$225; Studio B-2, \$185

SONIKIT

1173 65th St.
Oakland, Calif. 94608

DALESFORD EXPORT SERIES

312

Price \$575 (assembled); \$350 (kit)
Dimensions 36H x 15¼W x 15¼D
Weight 90 lbs.
Type Acoustic suspension
Drivers 12" Bextrene woofer; 6" Bextrene midrange; 1" low-mass soft-dome Audax tweeter
Response 30 Hz to 20 kHz, ±3 dB
Crossover 250 Hz; 3.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 100 watts (20 dBW)
Features Bituminous felt and long fiber wool damping; diffraction-free enclosure

208

Price \$195 (assembled); \$125 (kit)
Dimensions 19H x 12W x 9½D
Weight 24 lbs.
Type Acoustic suspension
Drivers 8" Bextrene woofer/midrange; 1" low-mass Audax tweeter
Response 55 Hz to 20 kHz, ±3 dB
Crossover 3.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 50 watts (17 dBW)
Features Bituminous felt and long fiber wool damping; diffraction-free enclosure

FRIED SERIES

Fried Super Monitor System

Price \$2,000 (assembled); \$800 (kit)
Dimensions 50H x 30W x 15D
Weight 140 lbs.
Type Transmission line and pressure release
Drivers 12" Bextrene woofer; 6" Bextrene midrange; 1" low-mass soft dome
Response 15 Hz to 20 kHz, ±3 dB re 92 dB SPL at 1 meter at 1 watt

Crossover 75 Hz; 3.5 kHz
Impedance 8 ohms
Min. power 50 watts (17 dBW)
Max. power 200 watts (23 dBW)
Features Truncated pyramid satellite with pressure release; transmission-line subwoofers; passive crossover; biamp inputs provided

Fried T Subwoofer

Price \$700 (assembled); \$360 (kit)
Dimensions 21¼H x 12¼W x 44¼D
Weight 88 lbs.
Type Transmission line
Drivers 10" high power Bextrene
Response 20 Hz to 200 Hz, ±0 dB re 87 dB SPL at one meter at one watt
Crossover 100 Hz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 100 watts (20 dBW)
Features Separate transmission lines for each channel; may be used with B/2, C, or other full-range speakers; passive crossover; biamp inputs provided

Fried "C" Mini Monitors

Price \$475 (assembled); \$275 (kit)
Dimensions 13½H x 10½W x 9D
Weight 20 lbs.
Type Pressure release
Drivers 6" Bextrene bass/midrange; 1" low-mass soft dome tweeter
Response 50 Hz to 20 kHz, ±3 dB re 92 dB SPL at one meter at one watt
Crossover 3.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 100 watts (20 dBW)
Features Truncated pyramid with pressure release; may be used alone or with T, D, or Super subwoofers

S.E.A.S. SERIES

Disco 47 Monster

Price \$354 (kit)
Dimensions 39½H x 19½W x 13½D
Type Dual ducted port
Drivers Two 12" woofers; two 6" midranges; two 4" cone tweeters; horn supertweeter
Response 40 Hz to 20 kHz, ±3 dB re 100 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 3 kHz; 8 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW)
Features Overload protection warning; lacquered ash enclosure; preassembled

603

Price \$220 (kit)
Dimensions 26H x 15¼W x 12½D
Weight 46 lbs.
Type Ducted port
Drivers 13" plastic doped woofer; 4½" plastic doped midrange; 1" soft plastic dome tweeter
Response 30 Hz to 25 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 600 Hz; 3 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 80 watts (19 dBW)

223

Price \$85 (kit)
Dimensions 19½H x 11½W x 10¾D
Weight 18 lbs.
Type Acoustic suspension
Drivers 8" woofer; 4" midrange; 2" cone tweeter
Response 50 Hz to 20 kHz, ±3 dB re 92 dB SPL at 1 meter at 1 watt

Crossover 1.5 kHz; 5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 30 watts (14.75 dBW)
Features Ferrromagnetic fluid in tweeter; lacquered ash enclosure

Models also available

310, \$475 (assembled); \$300 (kit); 210, \$275 (assembled); \$185 (kit); BSC-3 Mini (Rogers), \$175 (assembled); \$115 (kit); Fried Super Subwoofer, \$1,550 (assembled); \$550 (kit); Fried H/2 Monitor System, \$950 (assembled); \$550 (kit); Fried D Subwoofer, \$500 (assembled); \$338 (kit); Fried B/2 Mini Monitors, \$275 (assembled); \$180 (kit); 403, \$150 (kit); 253, \$120 (kit)

SONY

Sony Corp. of America
 9 West 57th St.
 New York, N.Y. 10019

SS-G7X

Price \$1,000
Dimensions 37H x 20W x 17½D
Weight 106 lbs.
Type Bass reflex
Drivers 15" woofer; 4" midrange; 1½" tweeter
Response 30 Hz to 20 kHz, 94 dB SPL at 1 meter at 1 watt
Crossover 550 Hz; 4.5 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 200 watts (23 dBW)
Features Plumb-IM line drivers; "AG" baffle board; balanced driver design

SSU-4000

Price \$400
Dimensions 46 15/16H x 13½W x 14 3/16D
Weight 70 lbs. 9 oz.
Type Passive radiator bass reflex
Drivers 10" cone woofer; 3¼" radiator; 3" midrange; 1" dome tweeter
Response 30 Hz to 20 kHz
Crossover 500 Hz; 5.5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 150 watts (21.75 dBW)
Controls Midrange, tweeter (+3 dB to -3 dB +4 dB to -40dB)

SSU-2070

Price \$150
Weight 38 lbs.
Type Acoustic suspension
Drivers 10" woofer; 3¼" midrange; 2¾" tweeter
Response 30 Hz to 20 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW)

SSU-1070

Price \$85
Dimensions 25½H x 14½W x 10¾D
Weight 23 lbs.
Type Acoustic suspension
Drivers 10" cone woofer; 2½" cone tweeter
Response 40 Hz to 20 kHz
Crossover 3 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 70 watts (18.5 dBW)

Models also available

SS-5GX, \$300; SSU-3000, \$300; SSU-2000, \$150; SSU-1270, \$100

SOUND DYNAMICS

Sound Dynamics Corp.
 161 Don Park Road
 Markham, Ontario L3R/1C2

120S

Price \$359
Dimensions 33H x 17W x 12D
Weight 70 lbs.
Type Computer-tuned low resonance bass reflex
Drivers 12" heavy duty woofer with long throw 1½" voice coil; felted cone; 1" horn loaded 5 2/5" cast aluminum lens
Response 26 Hz to 20 kHz, ±3 dB
Crossover 750 Hz; 3.25 kHz
Impedance 8 ohms (nominal)
Min. power 12 watts (10.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls L-pad variable through full range
Features "Floating bass port"; phase corrected, precisely angled, floor-standing cabinet; handbuilt component drivers; walnut vinyl finish

12S

Price \$279
Dimensions 26¾H x 15½W x 12D
Weight 55 lbs.
Type Computer-tuned low-resonance bass reflex
Drivers 12" long-throw woofer; 1" phenolic dome horn-loaded with 5¾" cast aluminum
Response 28 Hz to 20 kHz, ±3 dB re 101.5 dB SPL at 1 meter at 1 watt
Crossover 2 kHz
Impedance 8 ohms (nominal)
Min. power 10 watts (10 dBW)
Max. power 125 watts (21 dBW)
Controls L-pad variable through full range
Features Bookshelf design; handbuilt component drivers; walnut vinyl finish

10S

Price \$199
Dimensions 25½H x 14½W x 12D
Weight 46 lbs.
Type Computer-tuned low-resonance bass reflex
Drivers 10" long-throw woofer; 1" phenolic horn-loaded dome with 5¾" cast aluminum lens
Response 32 Hz to 20 kHz, ±3.2 dB re 100 dB SPL at 1 meter at 1 watt
Crossover 2.2 kHz
Impedance 8 ohms (nominal)
Min. power 8 watts (9 dBW)
Max. power 60 watts (17.75 dBW)
Controls L-pad variable through full range
Features Same as Model 12S

Models also available

6S, \$149; 15S, \$449

SOURCE

Sound Source
 1435 Jacqueline Dr.
 Columbus, Ga. 31907

1240

Price N/A
Dimensions 24½H x 15W x 12½D
Weight 40 lbs.
Type Tube vented reflex
Drivers 12" woofer; 2" x 6" piezoelectric horn
Response 35 Hz to 40 kHz, ±3 dB
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 250 watts (24 dBW)

Controls None
Features External fusing (AGC-4); genuine walnut veneer enclosure

1020

Price N/A
Dimensions 22¾H x 13¼W x 10¼D
Weight 34 lbs.
Type Tube vented reflex
Drivers 10" woofer; 5" (sealed environment) midrange; 2" phenolic ring tweeter
Response 40 Hz to 20 kHz, ±3 dB
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter
Features External fusing (AGC-3); genuine walnut veneer enclosure

SIGNATURE SERIES

4a

Price \$499
Dimensions 42H x 16W x 13D
Weight 95 lbs.
Type Rear-frequency time line, acoustically damped
Drivers 12" woofer; 5" isolated midrange; 1" soft-dome tweeter
Response 20 Hz to 22 kHz, ±3 dB
Crossover 900 Hz; 6 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 200 watts (23 dBW)
Controls Tweeter; midrange

2a

Price \$279
Dimensions 26H x 13½W x 10½D
Weight 30 lbs.
Type Vented, acoustically damped
Drivers 10" woofer; 5" isolated midrange; 1" soft-dome tweeter
Response 38 Hz to 22 kHz, ±3 dB
Crossover 1.8 Hz; 6 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls Tweeter

Models also available

1220, N/A; D-12, N/A; 3a, \$350; 1a, \$199

SPEAKERCRAFT

Speakercraft of Oregon
 P.O. Box 13460
 Portland, Ore, 97213

Sylvan Monitor

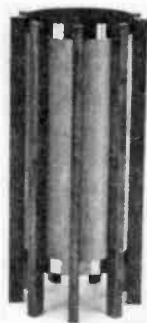
Price \$489
Dimensions 46H x 16W x 14D
Weight 82 lbs.
Type Loaded transmission line
Drivers Four 12" passive elements; two 6½" high compliance bass drivers, push/pull configuration; 6½" plasticized midrange; 1" soft damp tweeter
Response 20 Hz to 28 kHz, ±3 dB re 86 dB SPL at 1 meter at 1 watt
Crossover 200 Hz; 3 kHz
Impedance 4 ohms
Min. power 35 watts (15.5 dBW)
Max. power 250 watts (24 dBW)
Controls Tweeter (3-position)
Features Push/pull; phase corrected; walnut veneer enclosure; floorstanding

Sylvan Standard

Price \$179



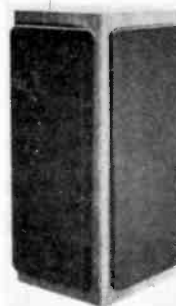
Scott PRO-100B



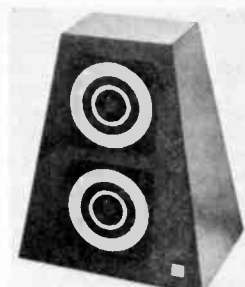
Speckman S-310



Snell Type A



Strelloff MS-1



Suporex Satellite / 1

Dimensions 24H x 13W x 11D
Weight 32 lbs.
Type Acoustic suspension
Drivers Three 8" plasticized woofers; two 2½" spiderless cone tweeters
Response 37 Hz to 21 kHz, ±3 dB
Crossover 3 kHz
Impedance 4 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)
Tweeters Tweeter (3-position)
Features Phase corrected; walnut veneered enclosure; bookshelf standing

Models also available
 Sylvan Premier, \$329

SPEAKERLAB
Speakerlab, Inc.
 735 N. Northlake Way
 Seattle, Wash. 98103

SK
Price \$650 (SKFW kit, \$445)
Dimensions 50½H x 32¼W x 28D
Weight 220 lbs.
Type Folded horn
Drivers 15" woofer; 17" x 6" horn midrange; 4" x 8¾" horn wave Aperture[®] driver
Response 101 dB SPL at one meter at one watt
Crossover 400 Hz; 5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 250 watts (24 dBW)
Controls Midrange; tweeter

S-6
Price \$360 (vinyl kit, \$256)
Dimensions 27¼H x 15½W x 11¾D
Weight 70 lbs.
Type Acoustic suspension
Drivers 12" woofer; 4¾" x 14¾" Wave Aperture[®] driver; 4" x 8¾" Wave Aperture[®] driver
Response 91 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 6 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter

S-30
Price \$330 walnut kit (vinyl kit, \$285)
Dimensions 31H x 13W x 10¾D
Weight 70 lbs.
Type Nestorovic woofer system
Drivers 10" woofer; 8" woofer; 5" midrange; 1" dome tweeter
Response 91 dB SPL at 1 meter at 1 watt
Crossover 750 Hz; 4 kHz

Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 350 watts (25.5 dBW)
Controls Woofer damping; midrange; tweeter
Features Newly patented woofer design

S-2.5
Price \$215 (vinyl kit, \$139)
Dimensions 26¼H x 15¼W x 10¾D
Weight 56 lbs.
Type Acoustic suspension
Drivers 10" woofer; 6" midrange; 1" dome tweeter
Response 91 dB SPL at 1 meter at 1 watt
Crossover 500 Hz; 3 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 150 watts (21.75 dBW)
Controls Midrange; tweeter

Speakerlab 0.1
Price \$99 (vinyl kit, \$65)
Dimensions 10H x 7W x 5D
Weight 10 lbs.
Type Acoustic suspension
Drivers 6" woofer; 1" dome tweeter
Response 88 dB SPL at 1 meter at 1 watt
Crossover 2.5 kHz
Impedance 4 or 8 ohms
Min. power 15 watts (12 dBW)
Max. power 50 watts (17 dBW)
Controls Tweeter

Models also available
 S-7WA, \$500 (vinyl kit, \$309); S-4, \$310 (vinyl kit, \$199); S-3, \$275 (vinyl kit, \$169); S-2, \$159 (vinyl kit, \$97); S-1, \$115 (vinyl kit \$67)

SPECKMAN
J.W.S. Acoustic Design Corp.
 11407A Route 14
 Harvard, Ill. 60033

S-415 Titus
Price \$1,025
Dimensions 36H x 15¼ dia.; x 18 dia., with legs
Weight 75 lbs. (approx., depending on leg style)
Type Cylindrical Column Of Air Effect[®] subchamber
Drivers 15" extended-range subwoofer; one 4" lower midrange; two 2" dome midranges; two 1" dome tweeters
Response 19 Hz to 20 kHz, ±2 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 450 Hz; 2 kHz; 6 kHz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 250 watts (24 dBW)

Features Midnight black flat smooth finish with interchangeable pecan legs; chain package available for hanging

S-15 Titus Subwoofer
Price \$650
Dimensions 36H x 15¼ dia.; 48H x 18 dia., with legs
Weight 75 lbs. (approx., depending on leg styles)
Type Cylindrical Column Of Air Effect[®] subchamber
Drivers 15" extended-range subwoofer
Response 19 Hz to 100 Hz, ±2 dB
Crossover Passive at 100 Hz
Impedance 8 ohms
Min. power 25 watts (14 dBW)
Max. power 250 watts (24 dBW)
Features Midnight black flat smooth finish with interchangeable pecan legs; chain package available for hanging

S-310 Galatian Edition
Price \$345
Dimensions 30H x 12½ dia.; 25½H x ¾ dia., with legs
Weight 34 lbs. (approx., depending on unit type)
Type Cylindrical Column Of Air Effect[®] subchamber
Drivers 10" subwoofer; 4½" midrange; 1" dome tweeter
Response 29 Hz to 20 kHz, ±2.5 dB re 91 dB SPL at one meter at one watt
Crossover 650 Hz; 6.5 kHz
Impedance 8 ohms
Min. power 15 watts (11¾ dBW)
Max. power 125 watts (21 dBW)
Features Available in midnight Black (a flat smooth finish, pecan legs standard); Palamino (combination brass, light tan fabric with interchangeable pecan legs); mocha (same as Palamino except with dark brown pile fabric); chrome (combination chrome or blacktone, trim rings, light silver blue fabric, interchangeable solid clear acrylic legs standard); chain package available for hanging

Models also available
 S-412 Galatian Editor, \$559; S-103, \$195; S-82, \$129

STRELIOFF
Strelloff System Designs
 5305 Teudilla Ave.
 Woodland Hills, Calif. 91364

TS-1 Transducer System
Price \$5,500/1 pr. pr.
Dimensions 66H x 36W x 18D
Weight 210 lbs.
Type Acoustic suspension

Drivers Two 10" cast aluminum frame woofers; six 1 1/2" dome midranges; six 1" dome tweeters

Response 38 Hz to 18 kHz, ± 4 dB re 87 dB SPL at 1 meter at 1 watt

Crossover 800 Hz; 5 kHz

Impedance 5 ohms at 500 Hz

Min. power 100 watts (20 dBW)

Max. power 500 watts (27 dBW)

Controls Blamp; triamp, low frequency roll-off (mode switches); 10 dB attenuation for each frequency range (rotary controls)

Features Custom finishes available

TE-1 Transducer Bass Extender

Price \$3,000/pr.

Dimensions 32H x 28W x 39D

Weight 180 lbs.

Type Multichamber infinite baffle

Drivers 18" cast aluminum frame woofer

Response 21 Hz to 125 Hz, ± 4 dB re 84 dB SPL at one meter at one watt

Crossover 10 Hz; 150 Hz (filter network)

Impedance 8 ohms at 70 Hz

Min. power 50 watts (17 dBW)

Max. power 250 watts (24 dBW)

Controls None

Features Cabinet construction Includes high density 1 1/2" thick walls and internal bracing; custom finishes available

MS-1 Monitor System

Price \$1,250/pr.

Dimensions 18H x 7 1/2W x 7 1/2D

Weight 32 lbs.

Type Exponentially loaded acoustic suspension

Drivers Two 5" cast aluminum frame woofers; two 1 1/2" dome midranges; two 1" dome tweeters

Response 70 Hz to 18 kHz, ± 4 dB SPL at 1 meter at 1 watt

Crossover 800 Hz; 5 kHz

Impedance 5 ohms at 500 Hz

Min. power 20 watts (13 dBW)

Max. power 200 watts (23 dBW)

Controls None

Features Minimum 180° horizontal dispersion at specified response; custom finishes available

Models also available

ME-1 Monitor Bass Extender, \$950

SUPEREX Superex Electronics Corp. 151 Ludlow St. Yonkers, N.Y. 10705

Satellite/1

Price \$89.95

Dimensions 10 1/4H x 8 1/2W x 6D

Weight 5 lbs. 3 oz.

Type Dynamic high frequency augmentation

Drivers Two 1" textile dome tweeters

Response 4 Hz to 4 kHz to 20 kHz, ± 2 dB re 96 dB SPL at 1 meter at 1 watt

Crossover 4 kHz

Impedance 4 ohms

Max. power 100 watts (20 dBW)

Controls High-frequency attenuator

Features Slotted dispersion plate eliminates beaming; high resolution driver design in non-resonant smoked plexiglass enclosure

SYNERGISTICS Maybern Co. 9565 Midwest Ave. Cleveland, Ohio 44125

S-92 Panels and Commode

Price \$2,000

Dimensions Commode: 19 3/4H x 38W x 18D; panels: 61H x 23W x 4D

Weight Commode: 130 lbs.; panels: 70 lbs.

Type Acoustic suspension

Drivers Six 4 1/2" open-backed midrange drivers; 12" woofers; two bipolar tweeters

Response 24 Hz to 20 kHz, ± 4 dB re 91 dB SPL at 1 meter at 1 watt

Crossover 140 Hz; 2.0 kHz

Impedance 8 ohms

Min. power 35 watts (15.5 dBW)

Max. power 600 watts (27.75 dBW)

Controls Midrange and tweeter levels

Features Circuit breakers; 3/4" high density particle board finished with genuine hand-rubbed walnut veneer; 3-piece bipolar with stereo sub-woofer

S-73 Tower

Price \$575

Dimensions 46 1/2H x 21 3/4W x 15D

Weight 79 lbs.

Type Vented

Drivers 12" passive radiator; two 8" high compliance woofers; bipolar samarium cobalt tweeter midrange

Response 30 Hz to 20 kHz, ± 3 dB

Crossover 45 Hz; 2.0 kHz

Impedance 8 ohms

Min. power 15 watts (11.75 dBW)

Max. power 150 watts (21.75 dBW)

Controls Woofer and tweeter levels

Features 3/4" high density particle board finished with genuine hand-rubbed walnut veneer; bipolar design; circuit breaker

S-53 Tower

Price \$325

Dimensions 30H x 14 1/2W x 12 1/2D

Weight 46 lbs.

Type Vented

Drivers 10" passive radiator; 8" woofer; four 2 1/2" tweeters

Response 40 Hz to 18 kHz, ± 4 dB

Crossover 50 Hz; 2.5 kHz

Impedance 8 ohms

Min. power 6 watts (7.75 dBW)

Max. power 60 watts (17.75 dBW)

Controls Tweeter level

Features 3/4" high density particle board finished with genuine hand-rubbed walnut veneer; circuit breaker

S-51C

Price \$325

Dimensions 25 1/2H x 14 1/4W x 11 1/2D

Weight 41 lbs.

Type Vented

Drivers 12" passive radiator; 8" high compliance woofer; piezoelectric supertweeter; 2 1/2" tweeter

Response 35 Hz to 24 kHz, ± 4 dB

Crossover 45 Hz; 2.5 kHz; 12.5 kHz

Impedance 8 ohms

Min. power 6 watts (7.75 dBW)

Max. power 80 watts (19 dBW)

Controls Tweeter level

Features 3/4" high density particle board finished with genuine hand-rubbed walnut veneer; circuit breaker

S-22B

Price \$130

Dimensions 23H x 12W x 9 1/2D

Weight 29 lbs.

Type Acoustic suspension

Drivers 8" woofer; 2 1/2" tweeter

Response 50 Hz to 18 kHz, ± 4 dB

Crossover 3.2 kHz

Impedance 8 ohms

Min. power 6 watts (7.75 dBW)

Max. power 40 watts (16 dBW)

Features 3/4" high density particle board finished in walnut grain vinyl

Models also available

S-63 Tower, \$400; S-46, \$250; S-33, \$175; S-23, \$150; S-12B, \$100

TAMON Tamon Audio Corp. of America P.O. Box 322 Concord, Calif. 94522

TS-707

Price \$380

Dimensions 31 1/2H x 16 1/2W x 11 1/2D

Weight 55 lbs.

Type Infinite baffle

Drivers 15" cone woofer; two 5" sealed-back cone midrange drivers; 3" ring-radiating tweeter; 2 1/2" metallic supertweeter

Response 30 Hz to 35 kHz

Crossover 600 Hz; 6 kHz; 15 kHz

Impedance 8 ohms

Max. power 110 watts (20.5 dBW); 200 watts (23 dBW) peak

CRO-50L

Price \$360

Dimensions 24 3/8H x 14 1/2W x 11 3/8D

Weight 39 lbs.

Type Infinite baffle

Drivers 12" cone woofer; 5" sealed-back cone midrange; two 3" cone tweeters

Response 32 Hz to 22 kHz

Crossover 800 Hz; 3 kHz

Impedance 8 ohms

Max. power 45 watts (16.5 dBW); 80 watts (19 dBW) peak

Features Electronic overload-protection circuit

TS-404

Price \$249.95

Dimensions 22 1/2H x 12 1/4W x 11 3/8D

Weight 27 lbs. 8 oz.

Type Infinite baffle

Drivers 10" cone woofer; 5" sealed-back cone-midrange; 3" ring-radiating tweeter

Response 38 Hz to 35 kHz

Crossover 800 Hz; 2.5 kHz

Impedance 8 ohms

Max. power 60 watts (17.75 dBW); 100 watts (20 dBW) peak

LB-1030

Price \$229.95 (with mounting brackets)

Dimensions 7 1/8H x 4 1/2W x 4 1/8D

Type Dynamic

Drivers 4" long-throw woofer; 1" soft-dome tweeter

Response 60 Hz to 20 kHz

Min. power 15 watts (11.75 dBW)

Features Suitable for home or auto use

TS-303

Price \$140

Dimensions 18 1/4H x 11 1/4W x 8 3/8D

Weight 19 lbs.

Type Infinite baffle

Drivers 8" cone woofer; 2" cone tweeter

Response 45 Hz to 22 kHz

Crossover 3 kHz

Impedance 8 ohms

Max. power 40 watts (16 dBW); 70 watts (18.5 dBW) peak

CRO-30L

Price \$140

Dimensions 19H x 10½W x 8½D
Weight 16 lbs.
Type Infinite baffle
Drivers 8" cone woofer; 3" cone tweeter
Response 45 Hz to 22 kHz
Crossover 3 kHz
Impedance 8 ohms
Max. power 25 watts (14 dBW); 40 watts (16 dBW) peak

Models also available

TS-505, \$349; CRO-40L, \$250;
 CRO-33L, \$169

TANDBERG

Tandberg of America, Inc.
 Labriola Court
 Armour, N.Y. 10504

Studio Monitor

Price \$1,500/pr.
Dimensions 30H x 18½W x 13½D
Weight 49 lbs.
Type Acoustic suspension
Drivers 12" woofer; 2" dome midrange; two 1" dome tweeters mounted in a column
Response 25 Hz to 20 kHz
Crossover 600 Hz; 3.5 kHz
Impedance 8/6 ohms
Max. power 100 watts (20 dBW)

Fasets

Price \$200/pr.
Dimensions 10½H x 11W x 8¾D
Type Acoustic suspension
Drivers 5" woofer; 2¼" tweeter
Response 50 Hz to 20 kHz
Crossover 3.5 kHz
Impedance 8/4 ohms
Min. power 8 watts (9 dBW)
Max. power 25 watts (14 dBW)

TANNOY

Tannoy-Ortofon, Inc.
 122 Dupont St.
 Plainview, N.Y. 11803

Buckingham

Price \$2,250
Dimensions 46H x 24W x 18D
Weight 212 lbs.
Type Ducted port
Drivers Integrated phase-coherent 8" midrange/tweeter with two 12" bass drivers
Response 40 Hz to 20 kHz, ±3 dB
Crossover 350 Hz; 3.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 150 watts (21.75 dBW) continuous
Controls Treble rolloff; treble energy

Arden

Price \$777
Dimensions 39H x 26W x 14½D
Weight 124 lbs.
Type Ducted port
Drivers 15" woofer with compression high-frequency driver mounted on common axis
Response 45 Hz to 20 kHz, ±4 dB
Crossover 1 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 150 watts (21.75 dBW) continuous
Controls Treble rolloff; treble energy
Features Phase-coherent integrated design

Berkeley

Price \$655

Dimensions 33H x 21W x 12D
Weight 90 lbs.
Type Ducted port
Drivers 15" woofer with compression high-frequency tweeter mounted on common axis
Response 45 Hz to 20 kHz, ±4 dB
Crossover 1 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 150 watts (21.75 dBW) continuous
Controls Treble energy; treble rolloff
Features Phase-coherent Integrated design

225

Price \$495
Dimensions 28H x 15W x 12D
Weight 66 lbs.
Type Passive radiator
Drivers 10" woofer with compression high-frequency tweeter mounted on common axis
Response 45 Hz to 20 kHz, ±3 dB
Crossover 3.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 150 watts (21.75 dBW) continuous
Controls Treble rolloff; treble energy
Features Glass-top floor-standing speaker utilizing phase-coherence integrated design

Models also available

Windsor, \$1,250; 185, \$425; 125, \$228

TECHNICS BY PANASONIC

Panasonic Co.
 1 Panasonic Way
 Secaucus, N.J. 07094

SB-7070

Price \$450
Dimensions 40¾H x 17½W x 16¼D
Weight 72 lbs. 13 oz.
Type Vented
Drivers 13¾" cone woofer; 6¼" mid-low cone; 4" mid-high cone; 1" dome tweeter
Response 30 Hz to 32 kHz, 92 dB SPL at 1 meter at 1 watt
Crossover 350 Hz; 1.2 kHz; 4 kHz
Impedance 8 ohms
Max. power 180 watts (22.5 dBW) (music); 120 watts (20.75 dBW) (DIN)
Controls Tweeter; midrange
Features Linear-phase design; resettable thermal relay protects each driver

SB-L300

Price \$250
Dimensions 28¾H x 14¾W x 12½D
Weight 40 lbs.
Type Vented
Drivers 12" woofer cone; 4" midrange cone; radial horn tweeter
Response 39 Hz to 22 kHz, 90 dB SPL at 1 meter at 1 watt
Crossover 1.6 kHz; 4.5 kHz
Impedance 8 ohms
Max. power 130 watts (21.25 dBW) (music); 90 watts (19.5 dBW) (DIN)
Controls Tweeter; midrange
Features Same as Model SB-7070

SB-L100

Price \$150
Dimensions 24H x 11¾W x 10¾D
Weight 24 lbs.
Type Vented
Drivers 10" woofer cone; radial horn tweeter
Response 43 Hz to 22 kHz, 89.5 dB SPL at 1 meter at 1 watt

Crossover 3.2 kHz
Impedance 8 ohms
Max. power 75 watts (18.75 dBW) (music); 50 watts (17 dBW) (DIN)
Features Same as Model SB-7070

SB-P1000

Price \$180/pr.
Dimensions 27½H x 13½W x 9¼D
Weight 20 lbs.
Type Vented
Drivers 8" woofer cone; 2" tweeter cone
Response 42 Hz to 20 kHz, 91 dB SPL at 1 meter at 1 watt
Crossover 4 kHz
Impedance 8 ohms
Max. power 30 watts (14.75 dBW) (music); 18 watts (12.5 dBW) (DIN)
Features Linear phase design; resettable thermal relays for each speaker; high-dispersion acoustic lens for tweeter

Models also available

SB-6060, \$350; SB-L200, \$200

TECHNISOUND

Technisound, Inc.
 60 E. Ida St.
 Antioch, ILL. 60002

120B

Price \$250
Dimensions 27H x 16W x 11D
Weight 58 lbs.
Type Passive radiator velocity regenerative
Drivers 10" woofer; 6" midrange driver; 3" tweeter
Response 36 Hz to 20 kHz, ±2 dB
Crossover 300 Hz; 3.5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW) continuous
Controls Midrange; tweeter

1200

Price \$200
Dimensions 26H x 18W x 12D
Weight 54 lbs.
Type Vented
Drivers Three
Response 37 Hz to 20 kHz, ±3 dB
Crossover 475 Hz; 4 kHz
Min. power 15 watts (11.75 dBW) continuous
Max. power 60 watts (17.75 dBW) continuous
Controls Midrange; tweeter; thermal overload reset

Models also available

80B, \$90

THIEL

Thiel Audio Products Co.
 4158 Georgetown Rd.
 Lexington, Ky. 40511

03

Price \$875/pr.
Dimensions 38H x 12W x 12D
Weight 42 lbs.
Type Ported; electronically equalized
Drivers 10" woofer; 5" midrange; 1" dome tweeter
Response 27 Hz to 20 kHz, ±2 dB re 92 dB SPL at 1 meter at 1 watt
Crossover 500 Hz; 4 kHz
Impedance 8 ohms

Min. power 20 watts (13 dBW)
Max. power 250 watts (24 dBW)
Features Phase-coherent

04

Price \$500/pr.
Dimensions 36H x 10W x 10D
Weight 34 lbs.
Type Passive radiator
Drivers 8" bass radiator; 6 1/2" woofer/midrange; 1" dome tweeter
Response 37 Hz to 20 kHz, ± 2 dB re 89 dB SPL at 1 meter at 1 watt
Crossover Impedance 50 Hz; 4 kHz
8 ohms
Min. power 20 watts (13 dBW)
Max. power 150 watts (21.75 dBW)
Features Phase and time coherent

Models also available

02, \$250/pr.

TRACER

BML Electronics, Inc.
5307 N. Ravenswood Ave.
Chicago, ILL. 60640

Sound Rack/Tracer 1501

Price \$499
Dimensions 51H x 20W x 5D
Weight 75 lbs.
Type Bifurcated transmission line
Drivers 5 1/2" mid-bass unit; 4 1/2" ABR; 1 3/4" direct radiator tweeters
Response 32 Hz to 20 kHz, ± 3 dB re 91 dB SPL at 1 meter at 1 watt
Impedance 5 ohms
Min. power 30 watts (14.75 dBW)
Max. power 200 watts (23 dBW)
Features Fuse protection; direct coupled

Sound Window/Tracer 1001A

Price \$349
Dimensions 32H x 22W x 5D
Weight 45 lbs.
Type Vented transmission line
Drivers 8" ABR; direct radiator tweeter
Response 38 Hz to 20 kHz, ± 3 dB re 88 dB SPL at 1 meter at 1 watt
Impedance 5 ohms
Min. power 30 watts (14.75 dBW)
Max. power 200 watts (23 dBW)
Features Fuse protection; direct coupled

Models also available

Sound Ends/Tracer 701, \$249

TRI-DELTA

Triangle Acoustics, Inc.
12721 S.W. 68th Ave.
Miami, Fla. 33183

Tri-Delta III

Price \$398
Dimensions 29H x 34 1/2W x 28 3/4D
Weight 60 lbs.
Type Air suspension
Drivers Two 10" cone woofers; 5" cone midrange; 4" dome tweeter
Response 20 Hz to 23 kHz, ± 3 dB re 90 dB SPL at 1 meter at 1 watt
Crossover Impedance 500 Hz; 5 kHz
8 ohms
Min. power 15 watts (11 1/2 dBW)
Max. power 200 watts (23 dBW)
Features Tetrahedron design; enclosure measures 33" on an edge

Tri-Delta IIB

Price \$350
Dimensions 27 1/2H x 31 3/4W x 25 1/2D
Weight 41 lbs.
Type Air suspension; vented
Drivers 12" cone woofer; 5" cone midrange; 4" dome tweeter
Response 20 Hz to 24 kHz, ± 3 dB re 95 dB SPL at 1 meter at 1 watt
Crossover Impedance 600 Hz; 5 kHz
8 ohms
Min. power 10 watts (10 dBW)
Max. power 175 watts (22.5 dBW)
Controls Two Tri-Acoustical Valves®
Features Tetrahedron design; enclosure measures 30" on an edge; can be used in acoustic suspension or direct-reflecting applications

Tri-Delta I

Price \$259.95
Dimensions 24 1/2H x 28 1/4W x 23 1/4D
Weight 37 lbs.
Type Acoustic suspension
Drivers 10" cone woofer; 5" cone midrange; 4" dome tweeter
Response 25 Hz to 22 kHz, ± 3 dB re 92 dB SPL at 1 meter at 1 watt
Crossover Impedance 700 Hz; 2.5 kHz
8 ohms
Min. power 10 watts (10 dBW)
Max. power 75 watts (18.75 dBW)
Features Tetrahedron design; enclosure measures 27" on an edge

Models also available

Tri-Delta IIA, \$312

TRUSONIC

Trusonic Co.
10530 Lawson River Ave.
Fountain Valley, Calif. 92708

Monitor Seven

Price \$990
Dimensions 44H x 24W x 17D
Weight 156 lbs.
Type High-efficiency acoustic suspension
Drivers Two 12" cast frame woofers; 6" cast frame midrange with 110 ounce magnet structure; four solid state tweeters
Response 25 Hz to 22 kHz, ± 4 dB re 94 dB SPL at 1 meter at 1 watt
Crossover Impedance 500 Hz; 400 kHz
4 ohms
Min. power 10 watts (10 dBW)
Max. power 250 watts (24 dBW)
Controls Midrange, ± 5 dB; high range, ± 5 dB
Features Computer-assisted design; "Critical Q" oiled oak cabinet, brown double-knit grille

ULTRALINEAR

Ultralinear Loudspeakers
3228 E. 50th St.
Los Angeles, Calif. 90058

265

Price \$360 (walnut or oak veneer, \$400)
Dimensions 31 1/4H x 18W x 16 3/4D
Weight 66 lbs.
Type Ported duct
Drivers 15" foam-edge suspension low-frequency driver with large diameter

high-temperature voice coil; 6" foam-suspension midrange transducer in separate sealed enclosure; 1" high-output soft-dome high-frequency radiator; 1" ultra-high-frequency Mylar dome radiator with refractive dispersion screen
Response 25 Hz to 22.5 kHz
Crossover Impedance 700 Hz; 4 kHz; 6 kHz
8 ohms
Min. power 12 watts (10.75 dBW)
Max. power 75 watts (18.75 dBW)
Controls Midrange and high-frequency front-mounted level
Features Circuit breaker protected

77C

Price \$180 (Melamine)
Dimensions 23 1/8H x 11 3/4W x 9 1/4D
Weight 50 lbs.
Type Air suspension
Drivers 10" foam-edge air-suspension low-frequency driver; 5" self-enclosed edge-treated midrange transducer; 2 1/2" edge-treated high-frequency radiator
Response 32 Hz to 18 kHz
Crossover Impedance 1.8 kHz; 4 kHz
8 ohms
Min. power 8 watts (9 dBW)
Max. power 40 watts (16 dBW)
Controls Front-mounted midrange level
Features Circuit breaker protected

100C

Price \$175
Dimensions 24 3/8H x 14 1/2W x 12D
Weight 35 lbs.
Type Bass reflex
Drivers 12" high-compliance low-frequency driver; 4 1/2" sealed-back midrange transducer; 2 1/2" edge-treated high-frequency radiator
Response 32 Hz to 18 kHz
Crossover Impedance 1.5 kHz; 4 kHz
8 ohms
Min. power 5 watts (7 dBW)
Max. power 40 watts (16 dBW)
Features Circuit breaker protected

66A

Price \$140
Dimensions 23 1/8H x 11 3/4W x 9 1/4D
Weight 24 lbs.
Type Air suspension
Drivers 8" foam-edge air-suspension, low-frequency driver; 4 1/2" sealed-back edge-treated midrange transducer; 2 1/2" edge-treated high-frequency radiator
Response 38 Hz to 18 kHz
Crossover Impedance 2 kHz; 4.5 kHz
8 ohms
Min. power 5 watts (7 dBW)
Max. power 30 watts (14.75 dBW)
Features Circuit breaker protected

Models also available

228, \$279 (Melamine); \$300 (walnut)

VERIT

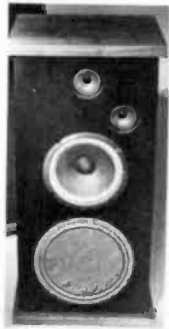
Wald Sound, Inc.
11131 Dora St.
Sun Valley, Calif. 91352

RL-X5

Price \$479

RL-X4

Price \$329



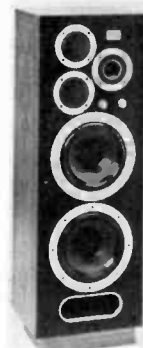
Synergistica S-53



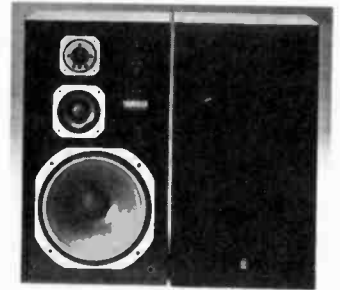
Thiel Model 04



Tracer Sound Window 1001A



Wharfedale E-90



Yamaha NS-590

RL-X3

Price \$269

VERMONT WOOD CRAFTS
Vermont Wood Crafts, Inc.
P.O. Box 206
Depot Street
Proctorsville, Vt. 05153

SL-5

Price \$199.95
Dimensions 34½H x 18½W x 12½D
Weight 45 lbs.
Type Bass reflex
Drivers 15" woofer; 3½" midrange; two 2½" direct radiating tweeters
Response 32 Hz to 20 kHz, ±3 dB
Crossover 1 kHz; 6 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 70 watts (18.5 dBW)
Controls Tweeter; midrange
Features Circuit breaker; attached floor stands

SL-2

Price \$99.95
Dimensions 25H x 15W x 10¼D
Weight 32 lbs.
Type Bass reflex
Drivers 12" woofer; 3" phenolic radiator tweeter
Response 38 Hz to 18 kHz, ±4 dB
Crossover 1.5 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 45 watts (16.5 dBW)
Features Circuit breaker

SL-1

Price \$79.95
Dimensions 20H x 12W x 8D
Weight 21 lbs.
Type Bass reflex
Drivers 8" woofer; 3" phenolic radiator tweeter
Response 40 Hz to 18 kHz, ±4 dB
Crossover 2.5 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 30 watts (14.75 dBW)

Models also available

SL-4, \$179.95; SL-3, \$119.95

VISONIK HIFI
Visonik of America, Inc.
701 Heinz St.
Berkeley, Calif. 94710

9000

Price \$300
Dimensions 14¾H x 9¼W x 9¾D
Weight 19 lbs. 12 oz.
Type Air suspension
Drivers 7" woofer; 1½" midrange; ¾" tweeter
Response 60 Hz to 17 kHz, ±2 dB re 87 dB SPL at 1 meter at 1 watt
Crossover 900 Hz; 4.5 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW)
Max. power 120 watts (20.75 dBW)

7000

Price \$185
Dimensions 9¾H x 6¼W x 6¾D
Weight 10 lbs.
Type Acoustic suspension
Drivers 5" woofer; 1" tweeter
Response 70 Hz to 17 kHz, ±2 dB re 86 dB SPL at 1 meter at 1 watt
Crossover 2.5 kHz
Impedance 4 ohms
Min. power 15 watts (11.75 dBW)
Max. power 70 watts (18.5 dBW)

D-702

Price \$210 (black); \$235 (walnut)
Dimensions 12¾H x 7¾W x 8D
Weight 17 lbs.
Drivers 7" woofer; 1" soft-dome tweeter
Response 30 Hz to 25 kHz, +4, -8 dB
Crossover 2.1 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 90 watts (19.5 dBW)

D-5000

Price \$115 (optional bracket, \$10)
Dimensions 6¾H x 4¼W x 4¼D
Weight 5 lbs. 8 oz.
Type Acoustic suspension
Drivers 4" woofer; 1" soft-dome tweeter
Response 50 Hz to 25 kHz, +4 dB, -8 dB
Crossover 2.5 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 50 watts (17 dBW)
Features Recommended for auto use with Visonik automotive amplifier

D-302 MO Speaker

Price \$100 (with mounting bracket)
Dimensions 6¾H x 4 ¼W x 4¼D
Weight 5 lbs.
Type Acoustic suspension
Drivers 4" woofer; 2" cone tweeter
Response 50 Hz to 22 kHz, +4 dB, -8 dB
Crossover 2 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)

Max. power 40 watts 16 dBW) continuous
Features Recommended for auto installation with Visonik A-301 automotive amplifier

SUBWOOFER SERIES

SUB 1

Price \$390 (\$630 with David 502)
Dimensions 23¾H x 17W x 13¾D
Weight 64 lbs.
Type Acoustic suspension
Drivers 12" woofer
Response 16 Hz to 30 kHz, +4 dB, -8 dB (w/David 502)
Crossover 160 Hz; 1.4 kHz
Impedance 6 ohms
Min. power 50 watts (17 dBW)
Max. power 300 watts (25.75 dBW)
Features Subwoofer unit with built-in matrixing crossover

SUB 2

Price \$300 (\$600 with David 6000)
Dimensions 19H x 14W x 11D
Weight 38 lbs.
Type Acoustic suspension
Drivers 10" dual voice coil woofer
Response 24 Hz to 25 kHz, +4 dB, -8 dB
Crossover 150 Hz; 2.5 kHz
Impedance 4 ohms
Min. power 40 watts (16 dBW)
Max. power 240 watts (23.75 dBW)
Features "Mini" subwoofer with built-in crossover

EURO SERIES

EURO 10

Price \$380
Dimensions 29½H x 14W x 11¾D
Weight 49 lbs.
Type Acoustic suspension
Drivers 10" woofer; 1½" midrange; ¾" tweeter
Response 40 Hz to 17 kHz, ±2 dB re 88 dB SPL at one meter at one watt/800 Hz; 4.5 kHz
Crossover 4 ohms
Impedance 20 watts (13 dBW)
Min. power 150 watts (21.75 dBW)

EURO 5

Price \$170
Dimensions 19H x 11W x 9¼D
Weight 24 lbs.
Type Acoustic suspension
Drivers 8" woofer; 1" soft-dome tweeter
Response 35 Hz to 25 kHz, +4 dB, -8 dB
Crossover 1.3 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 60 watts (17.75 dBW)

Models also available

6000, \$150; 4000, \$100; Euro 7, \$300

WATSON

Watson Laboratories
2711 Rena Road
Mississauga, Ont. L4T 3K1,
Canada

25W

Price \$1,650
Dimensions 17H x 52W x 34D
Weight 130 lbs.
Type Subwoofer; inert gas suspension
Response 17 Hz to 150 kHz, ± 3 dB re 93 dB SPL at 1 meter at 1 watt
Impedance 4 to 8 ohms
Min. power 100 watts (20 dBW)
Max. power 500 watts (27 dBW)
Features Coffee-table styling

Model Five

Price \$675/pr.
Dimensions 32H x 15W x 14 $\frac{1}{2}$ D
Weight 38 lbs.
Type Inert gas suspension
Drivers 10" woofer; 6" midrange; 1" soft dome tweeter
Response 30 Hz to 20 kHz, ± 3 dB re 91 dB SPL at 1 meter at 1 watt
Crossover 510 Hz; 3 kHz
Impedance 5 ohms
Min. power 50 watts (17 dBW)
Max. power 150 watts (21.75 dBW)
Controls Square-wave response capability from 150 Hz to 5 kHz

Models also available

Model Ten ; Model Seven

WHARFEDALE

Rank Hi Fi Inc.
20 Bushes Lane
Elmwood Park, N.J. 07407

E-90

Price \$850
Dimensions 45 $\frac{3}{8}$ H x 15 3/16W x 14 $\frac{3}{4}$ D
Weight 112 lbs.
Type Bass reflex
Drivers Two low-mass 10" woofers; two 4" high-flux cone midrange drivers; 1" compression-drive horn tweeter
Response 43 Hz to 18kHz, ± 3 dB re 95 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 280 watts (24.5 dBW)
Features Matched-grain walnut finish; removable open mesh black grille cloths; casters

E-50

Price \$430
Dimensions 26H x 13 $\frac{1}{2}$ W x 13 $\frac{1}{2}$ D
Weight 42 lbs.
Type Bass reflex
Drivers 10" woofer; 4" cone midrange; 1" compression drive horn-loaded tweeter
Response 55 Hz to 18 kHz, ± 3 dB re 94 dB SPL at 1 meter at 1 watt

Crossover 800 Hz; 7 kHz
Impedance 8 ohms
Min. power 3 watts (4.75 dBW)
Max. power 70 watts (18.5 dBW)
Controls Low frequency; tweeter

E-30

Price \$300
Dimensions 22 4/5H x 13 1/5W x 10 3/10D
Drivers Two 6 7/10" bass/midranges; horn tweeter
Response 63 Hz to 18 kHz, ± 3 dB re 94 dB SPL at 1 meter at 1 watt
Crossover 4 kHz
Impedance 8 ohms
Max. power 100 watts (20 dBW)
Controls Tweeter
Features Hand-finished, matched walnut veneer pairs

L-300

Price \$275
Dimensions 26 3/16H x 13 $\frac{1}{2}$ W x 13 13/16D
Type Acoustic suspension
Drivers 10" woofer; 4" midrange
Response 38 Hz to 26 kHz, ± 3 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 1 kHz; 5.5 kHz
Impedance 6 ohms
Max. power 90 watts (19.5 dBW)
Features Hand-finished in walnut veneer matched pairs; laser-beam holography/computer-optimization of bass drivers and cabinet size

SP-120 Dovedale

Price \$385
Dimensions 25H x 15 $\frac{1}{2}$ W x 12 $\frac{1}{2}$ D
Weight 55 lbs. 2 oz.
Type Bass reflex
Drivers Two 7" woofers; 4" midrange; iso-dynamic tweeter
Response 35 Hz to 26 kHz, ± 3 dB
Crossover 800 Hz; 5 kHz
Impedance 6 ohms
Min. power 10 watts (10 dBW)
Max. power 60 watts (17.75 dBW)
Controls Low frequency; tweeter
Features Natural walnut veneer on high density particle board; matched pairs

XP-80 Glendale

Price \$210
Dimensions 22 $\frac{1}{4}$ H x 12W x 10 $\frac{1}{2}$ D
Weight 70 lbs.
Type Acoustic suspension
Drivers 10" woofer; 4" cone midrange; 1" dome tweeter
Response 50 Hz to 20 kHz, ± 3 dB re 86 dB SPL at 1 meter at 1 watt
Crossover 1.3 kHz; 4.5 kHz
Impedance 6 ohms
Min. power 10 watts (10 dBW)
Max. power 40 watts (16 dBW)
Controls Low frequency; tweeter
Features Matched pairs; brown jersey grille cloth

XP-20 Denton

Price \$90
Dimensions 14H x 10W x 9D
Type Acoustic suspension
Drivers 6 $\frac{1}{2}$ " woofer; 2" tweeter
Response 65 Hz to 18 kHz, ± 3 dB re 88 dB SPL at 1 meter at 1 watt
Crossover 1.4 Hz; 3.5 kHz
Impedance 6 ohms
Min. power 10 watts (10 dBW)
Max. power 25 watts (14 dBW)
Features Matched pairs; brown jersey grille

cloth; natural walnut veneer finish

Models also available

E-70, \$525; SP-100 Teesdale, \$285; XP 60 Linton, \$160; XP-40 Shelton, \$115

YAMAHA

Yamaha International Corp.
6600 Orangethorpe
Buena Park, Calif 90620

NS-1000

Price \$1,500/pr.
Dimensions 28H x 15 $\frac{1}{2}$ W x 14 $\frac{1}{2}$ D
Weight 85 lbs. 13 oz.
Type Acoustic suspension
Drivers Woofer; dome midrange; beryllium dome tweeter
Response 40 Hz to 20 kHz
Crossover 500 Hz; 6 kHz
Impedance 8 ohms
Min. power 50 watts (17 dBW)
Max. power 100 watts (20 dBW)
Controls Midrange; tweeter

NS-690 Mark II

Price \$700/pr.
Dimensions 24 $\frac{3}{4}$ H x 13 $\frac{3}{4}$ W x 12 $\frac{3}{4}$ D
Weight 59 lbs. 8 oz.
Type Acoustic suspension
Drivers Cone woofer; soft-dome midrange; soft-dome tweeter
Response 35 Hz to 20 kHz
Crossover 800 Hz; 6 kHz
Impedance 8 ohms
Max. power 80 watts (19 dBW)
Controls Midrange; tweeter

NS-890

Price \$530
Dimensions 19 $\frac{1}{4}$ H x 14 $\frac{3}{4}$ W x 12 $\frac{1}{2}$ D
Weight 68 lbs. 3 oz.
Type Sealed enclosure
Drivers 12" cone woofer; 4 $\frac{3}{4}$ " cone midrange; 2" beryllium dome mid/high; 1 $\frac{1}{4}$ " beryllium dome tweeter
Response 40 Hz to 20 kHz
Crossover 600 Hz; 2 kHz; 6 kHz
Impedance 8 ohms
Min. power 40 watts (16 dBW)
Max. power 80 watts (19 dBW)
Controls Mid/high; tweeter (continuously variable)

NS-590

Price \$320
Dimensions 26 3/16H x 14 9/16W x 12 7/16D
Weight 51 lbs. 13 oz.
Type Sealed enclosure
Drivers 12" cone woofer; 4 $\frac{3}{4}$ " cone midrange; 1 3/16" beryllium dome tweeter
Response 40 Hz to 20 kHz
Crossover 700 Hz; 6 kHz
Impedance 8 ohms
Min. power 35 watts (15.5 dBW)
Max. power 70 watts (18.5 dBW)
Controls Midrange; tweeter (continuously variable)

Models also available

NS-1000M, \$1,050/pr.

Equalizers

ADC
BSR (USA) Ltd.
 Route 303
 Blauvelt, N.Y. 10913

Sound Shaper 3 Equalizer

Price \$500
Dimensions 6 5/16H x 19W x 12D
Bands 12 per channel
Range ± 12 dB in each band
Input imp. 75 ohms
Output imp. 10 ohms at 1 kHz
Max. output 10V
Features Paraphonic® equalizer allows control of 36 frequency ranges/channel

Sound Shaper 2 Mk 2 Equalizer

Price \$330
Dimensions 6 1/4H x 16 3/4W x 6 3/4D
Weight 13 lbs.
Bands 12 per channel
Range ± 12 dB in each band
Input imp. 75K ohms
Output imp. 10 ohms at 1 kHz
Max. output 9V
Features Includes line/record, monitor, EG-bypass, meter switches, and input jack for sound level meter

Sound Shaper 110 Equalizer

Price \$230
Dimensions 6 1/4H x 14 3/4W x 6 3/4D
Weight 11 lbs.
Bands 10 per channel
Range ± 12 dB in each band
Input imp. 75K ohms
Output imp. 10 ohms at 1 kHz
Max. output 10V

Models also available

Sound Shaper-1 Equalizer, \$120

AUDIO CONTROL
Audio Control, Inc.
 6520 212th St., S.W., B-1
 Lynwood, Wash. 98036

C-101 Octave Equalizer

Price \$549
Dimensions 3 1/2H x 19W x 6 1/2D
Weight 8 lbs.
Bands 10 per channel
Range ± 15 dB in each band
Input imp. 100K ohms
Max. input 7V
Output imp. 680 ohms
Max. output 7V
Features LED display real-time analyzer, pink-noise generator; mic input; switchable infrasonic filter; rack-mount

C-50A Equalizer

Price \$399
Dimensions 3 1/2H x 9 1/2W x 6 1/2D
Weight 4 lbs.

Bands 10
Input imp. 100K ohms
Max. input 7V
Output imp. 680 ohms
Max. output 7V
Features Includes pink-noise generator and measurement microphone; real-time analyzer

520B Equalizer

Price \$119
Dimensions 2 3/5H x 12 3/10W x 5D
Weight 2 lbs. 6 oz.
Bands 5 per channel
Range ± 12 dB to ± 15 dB in each band
Input imp. 470K ohms
Max. input 7.5V
Output imp. 600 ohms
Max. output 7V
Features Switchable infrasonic filter; EQ points at 36 Hz, 60 Hz, 120 Hz, 1 kHz, and 15.5 kHz; narrow-bandwidth filters

Models also available

C-25 Equalizer, \$299; C-22 Equalizer, \$229

AUDIO DEVELOPMENTS INTERNATIONAL

Audio Developments International
 644 Emerson St.
 Palo Alto, Calif. 94301

1500 Automatic Equalizer

Price \$850
Dimensions 5H x 19W x 10D
Weight 12 lbs.
Bands 10 per channel
Range ± 12 dB in each band
Input imp. 10K ohms
Max. input ± 3 dB
Output imp. 600 ohms
Max. output ± 18 dB
Level contr. ± 12 dB; -12 dB (insertion gain)
Features Patented LED indicators; no external test equipment needed

1503 Equalizer

Price \$730
Dimensions 3H x 19W x 10D
Weight 10 lbs.
Bands 31
Range ± 12 dB in each band
Input imp. 10K ohms
Max. input +30 dBV
Output imp. 600 ohms (balanced)
Max. output +27 dBV
Level contr. +12 dB; -12 dB (insertion gain)
Features Low noise, distortion; full range graphic 1/3 octave equalizer; 20 Hz to 20 kHz bands; optimum range indicator included; -115 dBV noise

Models also available

1501 Equalizer, \$375

BIAMP

Biamp Systems, Inc.
 10950 S.W. 5th Ave., #110
 Beaverton, Ore. 97005

EQ/270A Equalizer

Price \$459
Dimensions 3 1/2H x 19W x 10D
Weight 3 lbs. 4 oz.
Bands 27
Range ± 12 dB in each band
Input imp. 600/50K ohms
Max. input 14V
Output imp. 600 ohms
Max. output 21.25V
Level contr. +12 dB; -12 dB (insertion gain)
Features High slew rate; twenty-seven bands on standard 1/3-octave ISO centers; low noise and distortion; EQ bypass switching; LED overload indicator; XLR-type connectors and phone jacks on inputs and outputs; transformerless balanced lines in and out; all metal, oil-damped slide controls with center detent; combining filters; low-phase shift; magnetic field immunity; outputs short-circuit and reverse-surge protected; switchable input impedance; rugged interconnect construction; rack-mount design

EQ/210 Equalizer

Price \$269
Dimensions 3 1/2H x 19W x 5 1/4D
Weight 2 lbs. 8 oz.
Bands 10 per channel
Range ± 15 dB in each band
Input imp. 50K ohms
Max. input 14V
Output imp. 600 ohms
Max. output 17V
Level contr. +15 dB; -15 dB (insertion gain)
Features Transformerless balanced line inputs and outputs or conventional single-ended; two completely independent channels; EQ bypass switching; LED overload indicators; magnetic field immunity; output short-circuit and reverse-surge protected; rack-mount design

CERWIN-VEGA

Cerwin-Vega, Inc.
 12250 Montague St.
 Arleta, Calif. 91331

GE-2 Equalizer

Price \$600
Dimensions 5 1/4H x 19W x 7 1/4D
Weight 12 lbs.
Bands 13
Range ± 12 dB in each band
Input imp. 50K ohms (nominal)
Max. input 4V
Output imp. 50 ohms (nominal output imp.; 2K ohms min. rated load imp.)
Max. output 8V
Level contr. +6 dB; $-\infty$ dB (insertion gain)
Features Half-octave control below 250 Hz, full octave control above 250 Hz

CROWN

Crown International, Inc.
1718 W. Mishawaka Road
Elkhart, Ind. 46514

EQ/2 Distinction Series Equalizer

Price \$1,095
Dimensions 7H x 19W x 14½D
Weight 16 lbs.
Bands 11 per channel
Range ±15 dB in each band
Input imp. 75K unbalanced; 20K balanced (transformerless)
Max. input 10V (WRMS)
Output imp. 300 ohms, normal; 600 ohms, balanced
Max. output 40V (WRMS)
Level contr. +10 dB (nominal unity gains with input attenuator)
Features Tunable center frequencies; hinge-point shelving tone controls; clip-level indicator; automatic turn-on muting; equalization and control cancel switches; test record and graph paper provided

DRACO

Draco Labs, Inc.
1005 Washington St.
Grafton, Wisc. 53024

Parametric Equalizer

Price \$550
Dimensions 5 1/5H x 19W x 12D
Weight 22 lbs.
Bands 20
Range ±10 dB in each band
Input imp. 50K ohms
Max. input 10V (rms)
Output imp. 600 ohms
Max. output 8V
Level contr. +10 dB (insertion gain)
Features Variable Q; variable center frequency per band; pre-post record selection; bypass; output gain adjustment

DYNACO

Dynaco Inc.
P.O. Box 612
Needham, Mass. 02195

SE-101 Equalizer

Price \$375 (assembled)
Dimensions 4¼H x 13½W x 12D
Weight 12 lbs.
Bands 10 per channel
Range ±12 dB in each band
Input imp. 50K ohms
Max. input 5V
Output imp. 600 ohms
Max. output 8V
Level contr. +6 dB; -12 dB (insertion gain)

FURMAN SOUND

Furman Sound
616 Canal St., Suite 29
San Rafael, Calif. 94901

PQ-6 Parametric Equalizer

Price \$495
Dimensions 3½H x 19W x 8D
Weight 7 lbs.
Bands 3 per channel
Range +20 dB, -∞ dB in each band
Input imp. 100K ohms
Max. input 4.9V
Output imp. 10 ohms
Max. output 8.3V

Level contr. +6 dB; -∞ dB (insertion gain)
Features Tunable frequency and bandwidth (latter variable from approximately 0.1 to 4 octaves); bypass switches; tape monitor switch; low-level inputs allow use as an instrument preamp; notches can go infinitely deep (i.e., total cancellation at selected frequency); S/N 99 dB with EQ in and set flat

PQ-3 Mono Parametric Equalizer/Instrument Preamp

Price \$275
Dimensions 1¾H x 19W x 8D
Weight 5 lbs.
Bands 3
Range +20 dB, -∞ dB in each band
Input imp. 100K ohms
Max. input 4.9V
Output imp. 10 ohms
Max. output 8.3V
Level contr. +6 dB; -∞ dB (insertion gain)
Features Tunable frequency and bandwidth (latter variable from approximately 0.1 to 4 octaves); bypass switch; low-level input allows use as an instrument preamp; notches can go infinitely deep (i.e., total cancellation or zero amplitude at the selected frequency); S/N 99 dB with EQ in and set flat

TX-2 Tunable

Crossover/Bandpass Filter

Price \$225
Dimensions 1¾H x 19W x 8D
Weight 5 lbs.
Bands 2 turn-around points
Input imp. 100K ohms
Max. input 8.3V
Output imp. 47 ohms
Max. output 8.3V
Level contr. +8 dB; -∞ dB (insertion gain)
Features May be used as a crossover in bi- or tri-amp systems, as a bandpass filter, or as two independent high- or low-pass filters; both turn-around frequencies completely tunable anywhere from 20 Hz to 20 kHz; input gain adjustable from unity to +8 dB; Butterworth response, 12 dB/octave rollofs

JVC

JVC America, Inc.
58-75 Queens Midtown
Expressway
Maspeth, N.Y. 11378

SEA-7070 Equalizer

Price \$780
Dimensions 6¾H x 16½W x 13½D
Weight 19 lbs.
Bands 11 per channel
Range ±12 dB (or ±6 dB) in each band (selectable)
Input imp. 50K ohms
Output imp. 330 ohms
Features One-third octave ISO center frequency

SEA-50 Equalizer

Price \$290
Dimensions 6¾H x 16½W x 13½D
Weight 15 lbs.
Bands 10 per channel
Range ±12 dB in each band
Input imp. 50K ohms
Output imp. 5K ohms
Max. output 4V
Features Resonant circuits with semiconductor-L inductors

SEA-20G Equalizer

Price \$190
Dimensions 4H x 15¾W x 10½D
Weight 7 lbs. 8 oz.

Bands 7 per channel
Range ±12 dB in each band
Input imp. 100K ohms
Output imp. 5K ohms
Max. output 3V
Features Resonant circuits with semiconductor-L inductors

Models also available

SEA-80, \$600

KLARK-TEKNIK
Hammond Industries
155 Michael Drive
Syosset, N.Y. 11791

DN-22 Octave Equalizer

Price \$830
Dimensions 5¼H x 19W x 8½D
Weight 16 lbs.
Bands 11
Range ±12 dB in each band
Input imp. 10K ohms
Max. input 60V
Output imp. 10 ohms
Max. output 22 dBm into 600 ohms
Level contr. +6 dB; infinite reduction
Features High- and low-pass filters; 0.01% THD

DN-27 One-Third Octave Equalizer

Price \$780
Dimensions 5¼H x 19W x 8½D
Weight 16 lbs.
Bands 27
Range ±12 dB in each band
Input imp. 10K ohms
Max. input 60V
Output imp. 10 ohms
Max. output 22 dBm into 600 ohms
Level contr. +6 dB; infinite reduction
Features 0.01% THD

LUXMAN

Lux Audio of America, Ltd.
160 Dupont St.
Plainview, N.Y. 11791

5G-12 Equalizer

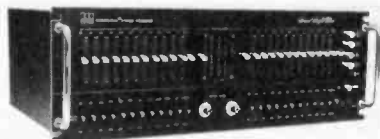
Price \$695
Dimensions 4H x 17 11/16W x 16D
Weight 16 lbs. 8 oz.
Bands 12
Range ±10 dB or 2 dB in each band
Input imp. 100K ohms
Output imp. 500 ohms
Max. output 5V
Level contr. ±12 dB; ±2 dB (insertion gain) (selectable)
Features Range selector; bypass switch

G-11 Equalizer

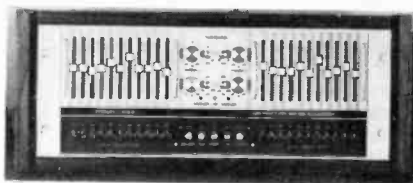
Price \$495
Dimensions 14 15/16H x 17¼W x 12¾D
Weight 12 lbs. 14 oz.
Bands 10
Range ±12 dB (or ±6 dB) in each band (selectable)
Input imp. 100K ohms
Output imp. 500 ohms
Max. output 6V
Level contr. +12 dB; ±6 dB (selectable)
Features Range-selector switch; bypass switch; input sensitivity 1V

MXR

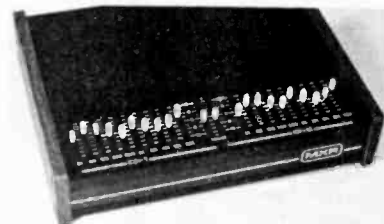
MXR Innovations, Inc.
247 N. Goodman St.
Rochester, N.Y. 14607



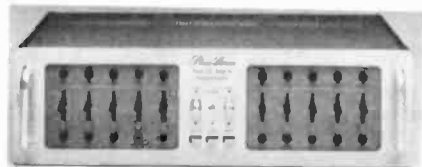
ADC Sound Shaper Three



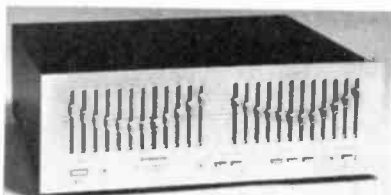
Crown EQ/2



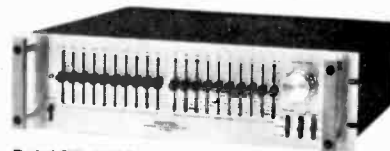
MXR Mod 114



Phase Linear 1100 Series Two



Pioneer SG-9800



Rotel RE-2000



Sansul SE-7



Shure SR-107



Soundcraftsmen TG-3044-R

MOD 128 One-Third Octave Equalizer

Price \$350
 Dimensions 3½H x 19W x 6D
 Weight 5 lbs.
 Bands 31
 Range ±12 dB in each band
 Input imp. 20K ohms
 Max. input 8V
 Output imp. 100 ohms
 Max. output 8V
 Level contr. +12 dB; -12 dB (insertion gain)
 Features EQ bypass switch; one-third octave frequency centers; furnished with walnut side panels; rack-mounting ears optional

MOD 114 Graphic Equalizer

Price \$219.95
 Dimensions 2H x 9W x 7D
 Weight 4 lbs. 8 oz.
 Bands 10
 Range ±12 dB in each band
 Input imp. 20K ohms
 Max. input 8V
 Output imp. 100 ohms
 Max. output 8V
 Level contr. +12 dB; -12 dB
 Features EQ bypass switch; tape-monitor switch; compact horizontal format

Models also available

MOD 127 Equalizer, \$325

NIKKO

Nikko Audio
 16270 Raymer St.
 Van Nuys, Calif. 91406

EQ-1 Graphic Equalizer

Price \$300
 Dimensions 3 2/5H x 19W x 9D
 Bands 10 per channel
 Range ±12 dB in each band
 Input imp. 100K ohms
 Max. input 7V
 Output imp. 560 ohms
 Max. output 7V
 Level contr. ±6 dB; -6 dB (insertion gain)
 Features EQ bypass switch; uses gyrator circuitry to eliminate inductors; S/N 100 dB (A-weighted); 0.007% THD (20 Hz to 20 kHz)

Models also available

EQ-2 Graphic Equalizer, \$200

NUMARK

Numark Electronics Corp.
 503 Raritan Center
 Edison, N.J. 08817

EQ-2300 Equalizer

Price \$270
 Dimensions 9½H x 12¾W x 3½D
 Weight 6 lbs. 8 oz.
 Bands 10 per channel
 Range ±12 dB in each band
 Input imp. 50K ohms
 Output imp. 500 ohms
 Max. output 10V
 Level contr. +0 dB; -0 dB (insertion gain)
 Features Headphone level control with impedance matching switch; EQ defeat; two overload indicators; linear controls

Models also available

EQ-2000 Equalizer, \$120

OLSON

Olson Electronics
 260 S. Forge St.
 Akron, Ohio 44327

RA-739 Equalizer

Price \$124.95
 Dimensions 3H x 15W x 8D
 Weight 5 lbs.
 Bands 10
 Range ±12 dB in each band
 Input imp. 8 ohms
 Output imp. 8 ohms
 Level contr. +12 dB; (insertion gain)
 Features Rack-mounting front panel

ONKYO

Onkyo U.S.A. Corp.
 42-07 20th Ave.
 Long Island City, N.Y. 11105

E-30 Equalizer

Price \$530
 Dimensions 3¼H x 17¾W x 14 9/16D
 Weight 14 lbs. 5 oz.
 Bands 9
 Range ±5/±10 dB in each band
 Input imp. 100K ohms at 1.5V
 Max. input 15V
 Output imp. 600 ohms

Max. output 15V
 Level contr. +10 dB; -10 dB (insertion gain)
 Features Low-cut filter at 15 Hz and 30 Hz; 100 dB S/N (IHF A-weighted)

PHASE LINEAR
 Phase Linear Corp.
 20121 48th Ave. W.
 Lynnwood, Wash. 98036

1100 Series Two Parametric Equalizer

Price \$599.95
 Dimensions 5½H x 19W x 8D
 Weight 9 lbs. 8 oz.
 Bands 5 per channel
 Range ±12 dB in each band
 Input imp. 50K ohms
 Max. input 8V
 Output imp. 1 ohm
 Max. output 8V
 Level contr. +6 dB; -80 dB (insertion gain)
 Features Bandwidth range: 0.18 octaves to 1.8 octaves; frequency range: 9:1; overload LED; bypass switch; tape monitor

PIONEER

U.S. Pioneer Electronics Corp.
 85 Oxford Drive
 Moonachie, N.J. 07074

SG-9800 Equalizer

Price \$395
 Dimensions 5¾H x 16½W x 14D
 Weight 15 lbs. 8 oz.
 Bands 12 per channel
 Range ±10 dB in each band
 Input imp. 50K
 Output imp. 600 ohms
 Max. output 7.5V
 Features Tape monitor provision

Models also available

SG-9500 equalizer, \$345

PYRAMID

Pyramid Industries
 12970-7N Branford St.
 Arleta, Calif. 91331

X-SPEC-5 Equalizer

Price \$199.95
Dimensions 1½H x 7W x 4¼D
Weight 1 lb. 8 oz.
Bands 5 per channel
Range ±12 dB in each band
Input imp. 28 ohms (low); 50K (high)
Max. input 2.5V
Output imp. 10K
Max. output 2.5V
Level contr. +12 dB; -12 dB (insertion gain)
Features Tape; radio; ten output LEDs; individual front and rear speaker EQ; bi-amp or stereo application

PME-100 Equalizer

Price \$59.95
Dimensions 1¾H x 5¾W x 4½D
Weight 2 lbs.
Bands 3 per channel
Range ±12 dB in each band
Input imp. 28 ohms (low); 50K (high)
Max. input 2.5 volts
Output imp. 10K
Max. output 2.5 volts
Level contr. +12 dB; -12 dB (insertion gain)
Features Volume control; bypass switch

Models also available

X-7P, \$84.95

REALISTIC Radio Shack

1400 One Tandy Center
Ft. Worth, Tex. 76102

Frequency Equalizer

Price \$69.95
Dimensions 4¾H x 10¼W x 6D
Bands 5
Range ±12 dB in each band
Features Individual left and right channel controls

REFERENCE

CBS Retail Stores
1301 65th St.
Emeryville, Calif. 94608

210EQ Equalizer

Price \$199.95
Dimensions 7H x 15½W x 6¾D
Weight 8 lbs. 8 oz.
Bands 12
Range ±12 dB in each band

ROLAND

Roland Corp.
2401 Saybrook Ave.
Los Angeles, Calif. 90040

GE-820 Equalizer

Price \$795
Dimensions 7H x 19W x 12D
Weight 19 lbs.
Bands 11 per channel
Range ±3, ±6, ±12 dB (3 ranges) in each band (1 octave)
Input imp. 50K ohms
Max. input +20 dB, 0 dB, -20 dB
Output imp. 600 ohms (unbalanced)
Max. output 0 dB, -20 dB
Level contr. +3, ±6, ±12 (to/w/within 1 dB)
Features Professional studio model designed for home application; foot switch selecting left or right or both; hard-wired in back to external devices that can be patched over; greater than 100 dB S/N ratio

GE-6 Equalizer

Price \$115
Dimensions 2¼H x 2¼W x 4¾D
Weight 1 lb.
Bands 6
Range ±12 dB in each band (1 octave)
Input imp. 220K ohms
Max. input 15V
Output imp. 600 ohms
Max. output 15V
Level contr. +12 dB; -∞ dB (insertion gain)
Features Foot-pedal operated

Models also available

GE-810 Equalizer, \$695; GE-10 Equalizer, \$195

ROTEL

Rotel of America, Inc.
1055 Saw Mill River Road
Ardsey, N.Y. 10502

RE-2000 Graphic Octave Equalizer

Price \$370
Dimensions 5¾H x 19W x 13 13/32D
Weight 16 lbs.
Bands 10 per channel
Range ±12 dB in each band
Input imp. 56K ohms
Output imp. 600 ohms
Max. output 7V
Features Inductorless active discrete resonant circuitry; rack-mount; two tape monitor, full dubbing facility, switches for record/play and complete bypass

Models also available

RE-700 Graphic Octave Equalizer, \$180

ROYAL SOUND

Royal Sound Co.
248 Buffalo Ave.
Freeport, N.Y. 11520

EA-600 Equalizer

Price \$160
Dimensions 2 1/3H x 7 1/12W x 6¾D
Weight 3 lbs. 2 oz.
Input imp. 47 ohms
Features Darlington circuitry; automatic power control with power indicator light; threshold saturation level indicators for left and right channels; front-to-rear fader control; detachable wiring harness for easy installation and removal

SAE

Scientific Audio Electronics, Inc.
701 E. Macy St.
Los Angeles, Calif. 90012

2800 Parametric Equalizer

Price \$600
Dimensions 8¾H x 19W x 3½D
Weight 18 lbs.
Bands 4 per channel
Range ±16 dB in each band
Input imp. 50K ohms
Max. input 9V
Output imp. 500 ohms
Max. output 9V

Level contr. +0 dB; -∞ dB
Features Parametric control for each band (adjustable bandwidth and center frequency); peak indicators; relay muting; tape EQ

180 Parametric Equalizer

Price \$250
Dimensions 4½H x 18W x 3½D
Weight 9 lbs.
Bands 2
Range ±16 dB in each band
Input imp. 50K ohms
Max. input 9V
Output imp. 500 ohms
Max. output 9V
Level contr. +0 dB; -∞ dB

Models also available

1800 Parametric Equalizer, \$350

SANSUI

Sansui Electronics Corp.
1250 Valley Brook Ave.
Lyndhurst, N.J. 07071

SE-7 Graphic Equalizer

Price \$300
Dimensions 6 5/16H x 19W x 1 11/16D
Weight 10 lbs. 6 oz.
Bands 10 per channel
Range ±12 dB in each band
Input imp. 30K
Output imp. 47K (rated load)
Max. output 5V
Level contr. +0 dB; -0 dB (insertion gain)
Features Graphic equalizer with two-way tape copy switching and monitoring; output level control; detachable rack-mounting handles

Models also available

SE-5, \$230

SHURE

Shure Bros., Inc.
222 Hartrey Ave.
Evanston, Ill. 60204

SR107 Equalizer

Price \$275
Dimensions 1¾H x 19W x 8 9/16D
Weight 7 lbs. 12 oz.
Bands 10
Range ±15 dB in each band
Input imp. 70K ohms
Max. input 6.2V
Output imp. 115 ohms (line); 1 ohm (mic); 630 ohms (aux)
Max. output 6.2V
Level contr. +15 dB; -15 dB
Features Rack-mount; additional 20 dB gain available

Models also available

M610 Equalizer,

SONTEC

Sontec Electronics
10120 Marble Court
Cockeysville, Md. 21030

HF-230 Equalizer

Price \$990

Dimensions 1 3/4 H x 19 W x 6 D
Weight 6 lbs.
Bands 3
Range ±12 dB in each band
Input imp. 50K ohms
Max. input 14V (rms)
Output imp. 100 ohms
Max. output 14V (rms)
Level contr. Factory set for unity gain
Features Slew rate of 200V per microsecond; 110 dB usable dynamic range; all forms of distortion under 0.002%; response flat DC to 200 kHz; high- and low-frequency shelving feature

SOUNDCRAFTSMEN
Soundcraftsmen
2200 S. Ritchey
Santa Ana, Calif. 92705

SP-4002 Signal Processor/Preamp/Equalizer

Price \$699
Dimensions 5 1/4 H x 19 W x 11 D
Weight 38 lbs.
Bands 10 per channel
Range ±22 dB in each band
Input imp. 47K
Max. input 10V
Output imp. 8 ohms
Max. output 10V
Level contr. +6 dB; -12 dB
Features Includes signal processor/preamp; dual 10-band, ±22 dB equalization; zero-gain/LED level balancing; infrasonic filtering -3 dB at 15 Hz, 12 dB per octave rolloff; variable cartridge loading; variable 47K/100 ohm phono impedance; ±20 dB phono level adjustment; inputs for moving coil cartridge over 0.28 mV output; two external processing loops; 19" rack-mount brushed aluminum black and silver overlay panels; includes Environmental EQ Test Record and Computone Charts for EQ referencing

TG-3044R Equalizer

Price \$550
Dimensions 5 1/4 H x 19 W x 11 D
Weight 28 lbs.
Bands 44 per channel
Range ±22 dB in each band
Input imp. 47K
Max. input 10V
Output imp. 600 ohms (balanced), 300 ohms (unbalanced)
Max. output 10V
Level contr. +6 dB; -24 dB
Features Fifteen bands of third-octave equalization to 1 kHz, 6 bands of alternate thirds to 20 kHz; infrasonic rolloff at 15 Hz; two separate channels with two separate sets of controls; tape and line EQ and tape monitor; zero-gain LED monitoring; employs passive wire-wound precision coils to eliminate electronic noise or hiss

AE-2420R Analyzer-Equalizer

Price \$499
Dimensions 5 1/4 H x 19 W x 11 D
Weight 30 lbs.
Bands 10 per channel
Range ±22 dB in each band
Input imp. 47K ohms
Max. input 10V
Output imp. 180 ohms
Max. output 10V
Level contr. +6 dB; -12 dB (insertion gain)
Features Complete line & tape equalizer plus differential-comparator analyzer; accurate to 0.1 dB with pink-noise generator, mic preamplifier, test record, and computone charts

Models also available

PE-2217R Equalizer, \$549; RP-

2215R Equalizer, \$370; RP 2201-R Equalizer, \$299; SE-450 equalizer, \$249

SPECTRA SOUND/CEI
Consolidated Electronics, Inc.
2245 South West Temple
Salt Lake City, Utah 84115

1000-B Equalizer

Price \$545
Dimensions 3 1/2 H x 19 W x 8 D
Weight 10 lbs.
Bands 10
Range ±16 dB in each band
Input imp. 100K ohms
Max. input 18 dBm
Output imp. 100 ohms
Max. output 18 dBm
Level contr. +15 dB; -15 dB (insertion gain)
Features LED indicators for each channel; infrasonic filter; rack-mountable; 13V/microsecond slew rate; IM and THD less than 0.008%

SPECTRO
Spectro Acoustics
3200 George Washington Way
Richland, Wash. 99352

210R Equalizer

Price \$295
Dimensions 6 H x 19 W x 7 D
Weight 12 lbs.
Bands 10
Range ±15 dB in each band
Input imp. 30K min.; 50K nominal
Max. input 10V (controls set flat)
Output imp. 600 ohms
Max. output 10V
Level contr. +15 dB; -15 dB
Features Employs gyrators or synthesized inductors which, although their function is electronically identical to wound coils, are almost totally immune to pickup from magnetic fields and totally immune to current saturation; full tape monitor capabilities; wooden end panels optional; standard EIA rack-mount

Models also available

2102R Equalizer, \$225

SUPEREX
Superex Electronics Corp.
151 Ludlow St.
Yonkers, N.Y. 10705

GEM-1 Micro Equalizer

Price \$89.95
Dimensions 2 3/4 H x 6 1/4 W x 4 3/4 D
Weight 5 lbs.
Bands 5 per channel
Range ±12 dB in each band
Input imp. 50K ohms
Max. input 8.5V
Output imp. 600 ohms
Max. output 8.5V
Level contr. +12 dB; -12 dB (insertion gain)
Features Center (0 dB) detented controls; separate EQ switches for record and playback; EQ CARD[®] automatic frequency programming system; isolated power module; 92 dB S/N; active op amp IC design; frequency response, 10 Hz to 150 kHz, ±0.5 dB; 0.02% distortion at 0 dB gain

Models also available
 1300 Equalizer, \$239

TAMON
Tamon of America, Inc.
2751 Monument Blvd.
Suite 277
Concord, Calif. 94520

EB-1000 Equalizer

Price \$199.95
Dimensions 5 1/2 H x 16 1/2 W x 8 D
Weight 11 lbs.
Bands 10
Range ±12 dB in each band
Input imp. 8 ohms
Features Monitor switch; defeat switch; front-mounted LEDs

TECHNICS
Panasonic Co.
One Panasonic Way
Secaucus, N.J. 07094

SH-9010 Equalizer

Price \$540
Dimensions 3 H x 19 W x 14 3/8 D
Weight 13 lbs.
Bands 5
Range ±12 dB in each band
Input imp. 47K
Max. input 1V input
Output imp. 300 ohms
Max. output 5V
Level contr. +0 dB; -0 dB (insertion gain)
Features "Universal" (graphic/parametric) equalizer; each band is center-frequency adjustable ±1.6 octaves (with overlap from band to band) and also bandwidth ("Q") adjustable from 0.7 to 7 (complete range of center-frequency selection is from 20 Hz to 48 kHz); each stereo channel may be equalized independently; mounts on 19" rack

Models also available

SH-8010 Equalizer, \$180

WHITE
White Instruments, Inc.
P.O. Bx 698
Austin, Tex. 78767

4002 One-Third Octave Active Equalizer

Price \$780
Dimensions 3 1/2 H x 18 W x 9 1/2 D
Weight 11 lbs.
Bands 27
Range ±10 dB in each band
Input imp. 40K ohms
Max. input 6V
Output imp. 2 ohms
Max. output 6V
Features Wood end blocks; rack-mount available; -90 dBm noise; security cover included; accessory socket to insert optional crossover networks for blamped systems; adjustable high-pass filter

Models also available

4100 Stereo Octave Band Active Equalizer, \$700; 4220 Octave Band Passive Equalizer, \$220

Headphones

AKG
AKG Acoustics
 91 McKee Drive
 Mahwah, N.J. 07430

K-340
Price \$189
Response 16 Hz to 25 kHz, ± 1 dB
Impedance 400 ohms
Design Dynamic/condenser
Weight 14 oz.
Features Dynamic moving-coil low-frequency transducers; condenser high-frequency transducers; 5 passive diaphragms in each earcup; auto-adjust headband with Cardan® gimbal pivot

K-140S
Price \$55
Response 20 Hz to 20 kHz
Sensitivity 94 dB SPL with 0.63V input
Impedance 600 ohms
THD 1% at 106 dB SPL (1 kHz)
Max. power 200 mV (119 dB SPL)
Design Dynamic moving coil
Weight 9 oz. (with cable and plug)
Features Auto-adjust headband with Cardan® gimbal pivot

K-40
Price \$27
Response 50 Hz to 15 kHz
Sensitivity 94 dB SPL with 0.45V input
Impedance 200 ohms
THD 1% at 104 dB SPL (1 kHz)
Max. power 200 mW (117 dB SPL)
Design Dynamic moving coil
Weight 6 oz. (with cable and plug)

Models also available
 K-240, \$85; K-141, \$69

AUDIO-TECHNICA
Audio-Technica
 33 Shiawassee Ave.
 Fairlawn, Ohio 44313

ATH-7
Price \$150
Response 20 Hz to 22 kHz, ± 2 dB
Sensitivity 98 dB SPL
Impedance 4 to 16 ohms
THD 0.25% at 110 dB SPL (1 kHz)
Max. power 114 dB SPL
Design Open-back; Electret Condenser
Weight 7.4 oz.
Features Moderate noise rejection; fabric-covered earcups; 8¼' straight cable; external impedance adapter with speaker/headphone switch; LED program level indicators

ATH-3
Price \$60
Response 25 Hz to 20 kHz
Sensitivity 94 dB SPL
Impedance 4 to 16 ohms
THD 0.5% at 110 dB SPL (1 kHz)

Design Open-back; dynamic
Weight 7 oz.
Features Moderate noise rejection; fabric-covered earcups; 11½' straight cable

ATH-1
Price \$30
Response 30 Hz to 20 kHz
Sensitivity 93 dB SPL
Impedance 4 to 16 ohms
THD 0.8% at 110 dB SPL (1 kHz)
Design Open-back; dynamic
Weight 4.75 oz.
Features Moderate noise rejection; extremely low mass; 8¼' straight cable

Models also available
 ATH-6, \$100; ATH-5, \$80

AUDIOTEX
Audiotex Laboratories
 Division of GC Electronics
 400 S. Wyman
 Rockford, Ill. 61101

30-5207
Price \$41
Response 30 Hz to 20 kHz
Impedance 8 to 16 ohms
Features 10' coiled cord; black vinyl carrying case

30-8300
Price \$25
Response 20 Hz to 20 kHz
Sensitivity 102 dB SPL
Impedance 8 ohms
Max. power 100 mW
Weight 9 oz.
Features Adjustable headband; foam ear-cushions; color-coded and marked right and left; 6' straight cord

Models also available
 30-5203, \$37; 30-5201, \$34

BANG & OLUFSEN
Bang & Olufsen of America, Inc.
 515 Busse Road
 Elk Grove Village, Ill. 60007

U-70
Price \$85
Response 16 Hz to 20 kHz
Sensitivity 94 dB SPL with 8 mW input
Impedance 140 ohms
THD 1% at 2W input
Max. power 2W
Design Semi open-back
Weight 10.6 oz.
Features Orthodynamic design; "ear control" allows vertical and horizontal adjustment of each earcup

BEYER
Burns Audiotronics, Inc.
 5-05 Burns Ave.
 Hicksville, N.Y. 11801

ET-1000
Price \$159.95; \$279 with power supply (ET-1000S)
Response 10 Hz to 25 kHz
Sensitivity 100 dB SPL with 2V input
Impedance 4 to 8 ohms
THD 1% at 110 dB SPL at 1 kHz
Max. power 115 mW
Design Circumaural seal
Weight 13 oz.
Features Electrostatic when used with N-1000 power supply; sintered-bronze cover plates; broad-padded headband; soft ear cushions; comes with an 8-foot cord

DT-220
Price \$64.95
Response 20 Hz to 20 kHz
Sensitivity 103 dB SPL with 1 mV input
Impedance 400 ohms
THD 1% at 120 dB SPL at 1 kHz
Max. power 102 mW
Design Circumaural seal
Weight 9 oz.
Features Broad, padded headband

DT-302
Price \$29.95
Response 20 Hz to 20 kHz
Sensitivity 100 dB SPL with 1 mV input
Impedance 600 ohms
THD 1.5% at 120 dB SPL at 1 kHz
Max. power 240 mW
Design Open-back
Weight 2.5 oz.
Features Lightweight; soft foam earpads; unbreakable headband; open-air design principle

Models also available
 DT-441, \$74.95; DT-440, \$64.95

CONCEPT
Concept
 160 W. Glenlake
 Itasca, Ill. 60743

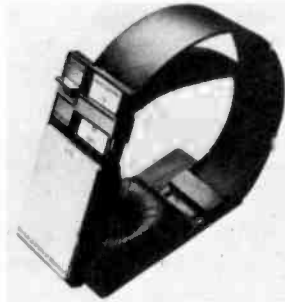
CE-H
Price \$85
Response 20 Hz to 20 kHz, ± 2 dB
Sensitivity 96 dB SPL with 1 mV input
Impedance 150 ohms
THD 0.25% at 95 dB SPL (1 kHz)
Max. power 3V (120 dB SPL)
Design Orthodynamic constant energy
Weight 10.5 oz.
Features Extra-long leather cord



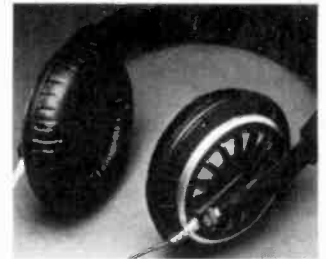
Audio-Technica ATH-7



Beyer Dynamic ET-1000



B & O U-70



Sennheiser HD-430

HERVIC

Hervic Electronics
14225 Ventura Blvd.
Sherman Oaks, Calif. 91423

HP-1

Price \$55
Weight 6.7 oz.
Features Low-mass diaphragm; fully-adjustable simulated leather headband

JVC

JVC America
58-75 Queens Midtown
Expressway
Maspeth, N.Y. 11378

HM-200E

Price \$100
Response 20 Hz to 20 kHz
Sensitivity 94 dB SPL with 1 mW input
Impedance 8 ohms
Weight 24 oz.
Features Adjustable headband; built-in binaural microphones

KOSS

Koss Corp.
4129 North Port Washington
Ave.
Milwaukee, Wis. 53212

ESP/10

Price \$350
Response 20 Hz to 22 kHz
Sensitivity 100 dB SPL
Impedance 180 ohms
THD 0.38% at 100 dB SPL at 1 kHz
Design Electrostatic
Weight 14 oz.
Features Patented E/10 energizer with dual headset jacks; automatic overload indicators

PRO/4 Triple A

Price \$85
Response 10 Hz to 22 kHz
Sensitivity 100 dB SPL
Impedance 220 ohms
THD 0.5% at 100 dB SPL (1 kHz)
Design Dynamic
Weight 15.5 oz.

Technician/VFR®

Price \$80
Response 10 Hz to 22 kHz
Sensitivity 100 dB SPL

Impedance 245 ohms
THD 0.3% at 100 dB SPL (1 kHz)
Design Dynamic
Weight 16.8 oz.
Features VFR controls

HV/1LC

Price \$60
Response 15 Hz to 30 kHz
Sensitivity 100 dB SPL
Impedance 132.5 ohms
THD 0.5% at 100 dB SPL (1 kHz)
Design High-velocity
Weight 10.8 oz.
Features Volume-balance controls on each earcup

HV/1

Price \$49.95
Response 20 Hz to 20 kHz
Sensitivity 100 dB SPL
Impedance 168 ohms
THD 0.5% at 100 dB SPL
Design High-velocity
Weight 10.1 oz.

K/135

Price \$40
Response 10 Hz to 18 kHz
Sensitivity 100 dB SPL
Impedance 98 ohms
THD 1% at 100 dB SPL (1 kHz)
Design Slimline
Weight 13.4 oz.

K/6A

Price \$29.95
Response 10 Hz to 16 kHz
Sensitivity 100 dB SPL
Impedance 100 ohms
THD 1% at 100 dB SPL (1 kHz)
Design Dynamic
Weight 13 oz.

Models also available

TECH/2, \$59.95; HV/1A, \$55;
K/145, \$54.95; KO/727B, \$40;
K/6ALC, \$39.95

LAFAYETTE

Lafayette Radio Electronics Corp.
111 Jericho Turnpike
Syosset, N.Y. 11791

F-780 Professional

Price \$44.99
Response 20 Hz to 20 kHz
Sensitivity 105 dB SPL with 1 mW
Design Open-air dynamic
Features Separate base and treble speakers in each earpiece

F-700 "Lighthouse"

Price \$34.99
Response 18 Hz to 22 kHz
Design Open-air dynamic
Features Ultra-thin 25 micron diaphragm; eliminates need for conventional ear cushions

Models also available

SP-78 Deluxe, \$29.99

MURA

Mura Corp.
177 Cantiague Rock Road
Westbury, N.Y. 11590

SP-205

Price \$60
Response 20 Hz to 20 kHz, ± 5 dB
Sensitivity 100 dB SPL with 20 mV input
Impedance 8 ohms
THD 1% at 20 mV input
Max. power 400 mW (109 dB SPL)
Weight 21 oz.
Features Slide-type volume and tone control; Mylar speakers; adjustable headband; stereo/mono switch; 15' coil cord; vinyl case included

HB-1500

Price \$30
Response 20 Hz to 20 kHz, ± 3 dB
Sensitivity 103 dB SPL with 30 mV input
Impedance 50 ohms
THD 1% at 30 mV input
Max. power 200 mW (114 dB SPL)
Weight 6 oz.
Features Adjustable headband; 10' coil cord; super-thin diaphragms

HV-180

Price \$30
Response 20 Hz to 16 kHz, ± 4 dB
Sensitivity 100 dB SPL with 20 mV input
Impedance 16 ohms
THD 0.5% at 20 mV input
Max. power 500 mW (113 dB SPL)
Weight 12 oz.
Features High-velocity; polymer-film diaphragm

HV-100

Price \$23
Response 30 Hz to 15 kHz, ± 3 dB
Sensitivity 100 dB SPL with 20 mV input
Impedance 16 ohms
THD 0.5% at 20 mV input
Max. power 500 mW (114 dB SPL)
Weight 12 oz.

Features Adjustable headband; high-velocity; stereo/mono switch; separate volume controls; 10' coil cord

SP-500

Price \$13
Response 35 Hz to 15 kHz, ± 6 dB
Sensitivity 98 dB SPL with 30 mV input
Impedance 8 ohms
THD 2% at 30 mV input
Max. power 500 mW (105 dB SPL)
Weight 14 oz.
Features 8' cord

SP-94

Price \$9
Response 40 Hz to 15 kHz, ± 6 dB
Sensitivity 102 dB SPL with 20 mV input
Impedance 8 ohms
THD 2% at 25 mV input
Max. power 600 mW (113 dB SPL)
Weight 10 oz.
Features 8' cord; matches 150-ohm impedance in each channel

Models also available

HV-230, 20 Hz to 18 kHz, ± 3 dB;
SP-504, \$25; SP-503, \$20; SP-502, \$15

NAKAMICHI

Nakamichi USA Corp.
1101 Colorado Ave.
Santa Monica, Calif. 90401

HF-100

Price \$55
Response 20 Hz to 20 kHz
Sensitivity 90 dB SPL with 1 mW input (1 kHz)
Impedance 8 ohms
THD 0.8% at 110 dB SPL (100 Hz)
Max. power 500 mW
Design Circumaural
Weight 14 oz.
Features Straight-cord; monitoring type; adjustable headband

NEAL-FERROGRAPH

Neal-Ferrograph U.S.A., Inc.
652 Glenbrook Road
Stamford, Conn. 06906

MB

Price \$134
Response 20 Hz to 20 kHz, ± 3 dB
Sensitivity 95 dB SPL with 100 V rms input
Impedance 130K ohms (10 kHz); connects via adapter box to 4 to 16 ohm outputs
Max. power 95 dB SPL (100V rms)
Design Electrostatic; foam-filled earcups
Weight 13 oz. (including 3-meter cable)
Features Permanently polarized capsule; padded, simulated leather carrying case included; adapter for connecting headphones through speaker/headphone switching unit

DYNA-X

Price \$64
Impedance 120 ohms
Design Circumaural; replaceable, foam-filled earpads
Weight 13 oz. (including 3-meter cable)
Features Padded, simulated leather carrying case included

NORDMENDE

Sterling Hi-Fidelity, Inc.
22-20 40th Ave.
Long Island City, N.Y. 11101

HD-800

Price \$60
Impedance 8 ohms

250

Price \$50
Impedance 8 ohms

225

Price \$36
Impedance 8 ohms

208

Price \$36
Impedance 8 ohms

115

Price \$31
Impedance 8 ohms

109

Price \$27
Impedance 8 ohms

NUMARK

Numark Electronics Corp.
503 Raritan Center
Edison, N.J. 08817

HV-3000

Price \$54
Response 8 Hz to 28 kHz
Design Lightweight
Weight 6.5 oz.
Features Samarium cobalt magnet; Neglex no-loss cable included

HV-235R

Price \$44
Response 9 Hz to 26 kHz
Design Lightweight
Weight 6.5 oz.
Features Samarium cobalt magnet; ported earcups; foam-filled ear cushions

HV-215VA

Price \$44
Response 9 Hz to 25 kHz
Design Lightweight
Features Curved Mylar diaphragm; ported earcups; individual volume controls for each side

HV-115A

Price \$32
Response 15 Hz to 22 kHz
Design Lightweight
Weight 7 oz.
Features Curved Mylar diaphragms; ported earcups; 10' cord

Models also available

HV-2000R, \$48

OLSON

Olson Electronics
260 S. Forge St.
Akron, Ohio 44327

PH-500

Price \$59.98
Response 35 Hz to 18 kHz
Impedance 8 ohms
Design Ultra-thin
Weight 10 oz.
Features Separate woofer and tweeter on each side

PICKERING

Pickering & Co., Inc.
101 Sunnyside Blvd.
Plainview, N.Y. 11803

OA-7 Dynaphase

Price \$70
Response 20 Hz to 22 kHz, ± 5 dB
Sensitivity 110 dB SPL with 200 mV input
Impedance 100 ohms
THD 0.5% at 110 dB SPL (1 kHz)
Max. power 300 mW
Design Dynamic high-velocity elements
Weight 5.5 oz.
Features Uses rare earth elements; 10' cord

OA-3A Dynaphase

Price \$45
Response 20 Hz to 20 kHz, ± 5 dB
Sensitivity 100 dB SPL with 100 mV input
Impedance 15 ohms
THD 0.5% at 110 dB SPL (1 kHz)
Max. power 200 mW
Design Dynamic high-velocity elements
Weight 7.5 oz. (without cord)
Features Special adapter for use with portable radios, TV sets and tape recorders

PIONEER

U.S. Pioneer Electronics Corp.
85 Oxford Drive
Moonachie, N.J. 07074

SE-700

Price \$100
Response 20 Hz to 20 kHz
Sensitivity 100 dB SPL with 5.6 mW input (1 kHz)
Impedance 80 ohms (min.)
Max. power 11 mW
Design Open-back
Weight 12 oz.
Features High polymer molecular film driver; 9 3/4' connection cord

Monitor 10

Price \$80
Response 20 Hz to 20 kHz
Sensitivity 100 dB SPL with 1 mW input
Impedance 8 ohms
Max. power 700 mW
Design Circumaural
Weight 23 oz.
Features 16 1/2' cord

SE-505

Price \$75
Response 20 Hz to 20 kHz
Sensitivity 108 dB SPL with 11 mW input
Impedance 8 ohms
Max. power 500 mW
Design Circumaural
Weight 24 oz.
Features Volume and tone controls for each channel; 16 1/2' connection cord

SE-6

Price \$70
Response 20 Hz to 20 kHz
Sensitivity 102 dB SPL with 1 mV input
Impedance 150 ohms
Max. power 200 mW
Design Open-back
Weight 8.8 oz (with cord)
Features Lightweight; 9 1/2' connection cord

SE-405

Price \$55

Response 20 Hz to 20 kHz
Sensitivity 113 dB SPL with 11 mW input
Impedance 8 ohms
Max. power 500 mW
Design Circumaural
Weight 17 oz.
Features Volume control for each channel; 16½' connection cord

SE-305

Price \$45
Response 20 Hz to 20 kHz
Sensitivity 108 dB SPL with 11 mW input
Impedance 8 ohms
Max. power 500 mW
Design Circumaural seal
Weight 15 oz.
Features 16½' connection cord

SE-2

Price \$30
Response 20 Hz to 20 kHz
Sensitivity 99 dB SPL with 1 mV input
Impedance 150 ohms
Max. power 200 mV
Design Open-back
Weight 9 oz. (with cord)
Features 8¼' connection cord

Models also available

SE-500, \$70; SE-4, \$50; SE-205, \$30

PML

Ercona Corp.
2492 Merrick Road
Bellmore, N.Y. 11710

D-42 Deluxe

Price \$45
Response 30 Hz to 20 kHz, ± 3 dB
Impedance 200 ohms
Max. power 5 mV
Design Dynamic
Weight 9.5 oz.
Features Washable rubber earpieces

RDF-224

Price \$30
Response 20 Hz to 18 kHz
Impedance 8 ohms
Max. power 100 mW
Weight 12 oz.
Features Foam filled vinyl ear cushions; 8' coiled cable with stereo/mono switch

POWER DRIVE

Recoton Corp.
46-23 Crane St.
Long Island City, N.Y. 11101

ST-55

Price \$40.99
Response 18 Hz to 21 kHz
Sensitivity 103 dB SPL
Impedance 50 ohms
Weight 5 oz. (less cord)
Features 10' coiled cord; ultra-thin diaphragm

ST-22

Price \$29.99
Response 20 Hz to 22 kHz
Sensitivity 110 dB SPL with 1 mW input (1 kHz)
Impedance 8 ohms
Features Individual level controls; stereo/mono switch; 10' coiled cable

ST-16

Price \$19.99
Response 20 Hz to 18 kHz
Sensitivity 110 dB SPL (1 kHz)
Impedance 8 ohms
Features Individual level controls; stereo/mono switch; 10' coiled cable

Models also available

ST-33, \$36.99

QUADRAFLEX

Quadraflex
1301 65th St.
Emeryville, Calif. 94608

Q-45

Price \$54.95
Response 20 Hz to 20 kHz, ± 2 dB
Sensitivity 95 dB SPL with 1 mV input
Impedance 80 ohms
THD 1% at 95 dB SPL
Max. power 1.8V
Design Dynamic
Weight 10 oz.
Features Mylar diaphragms

Q-35

Price \$44.95
Response 20 Hz to 20 kHz, ± 3.5 dB
Sensitivity 93 dB SPL with 1 mV input
Impedance 122 ohms
THD 1.5% at 95 dB SPL
Max. power 1.5V
Design Dynamic
Weight 13 oz.
Features Mylar diaphragm; level controls

Q-12

Price \$17.95
Response 50 Hz to 14 kHz, ± 4 dB
Sensitivity 90 dB SPL with 1 mV input
Impedance 50 ohms
THD 2.5% at 95 dB SPL
Max. power 850 mV
Design Dynamic
Weight 8 oz.
Features Mylar diaphragm

Models also available

Q-25, \$29.95

REALISTIC

Radio Shack
1400 One Tandy Center
Ft. Worth, Tex. 76102

PRO 50

Price \$79.95
Response 16 Hz to 20 kHz
Impedance 600 ohms
Weight 10½ oz.
Features Dynamic moving-coil transducer with 6 passive diaphragms

PRO-II

Price \$50
Response 10 Hz to 22 kHz
Impedance 4 to 16 ohms
Features Mylar diaphragm speakers; 1½" voice coils; air-filled ear cushions

LV-10

Price \$40
Response 20 Hz to 20 kHz
Impedance 4 to 16 ohms
Design Vented-back
Weight 10 oz.
Features Soft sponge earpieces; 10' coiled cord; less than 0.5% distortion

Nova®-PRO

Price \$36.95
Response 20 Hz to 20 kHz
Impedance 8 ohms
Features Independent volume controls on each earcup; 10' coiled cord; durable vinyl-cone speakers

PRO-20

Price \$29.95
Response 10 Hz to 16 kHz
Impedance 8 ohms
Features Snap-fit headband; 10' coiled cord; foam-filled vinyl ear cushions

NOVA-10

Price \$16
Impedance 4 to 16 ohms
Features Adjustable headband; padded ear-cups

Models also available

PRO-10, \$40; NOVA-30, \$25

SANSUI

Sansui Electronics Corp.
1250 Valley Brook Ave.
Lyndhurst, N.J. 07071

SS-100

Price \$118
Response 20 Hz to 20 kHz
Sensitivity 94 dB SPL
Impedance 60 ohms
THD 0.3% at 94 dB SPL
Max. power 250 mW
Design Circumaural
Weight 13.2 oz.
Features Omni-dynamic; etched voice coil on diaphragm between magnetic plates

SS-80

Price \$72
Response 20 Hz to 20 kHz
Sensitivity 108 dB SPL
Impedance 200 ohms
Max. power 500 mW
Design Circumaural seal
Weight 17.3 oz.
Features Volume and tone controls

SS-30

Price \$30
Response 20 Hz to 20 kHz
Sensitivity 108 dB SPL
Impedance 8 ohms
Max. power 500 mW
Design Circumaural seal
Weight 11.5 oz.
Features Super-lightweight polyester film diaphragm; light, comfortable earpads/band

Models also available

SS-60, \$54; SS-40, \$42

SENNHEISER

Sennheiser Electronics Corp.
10 West 37th St.
New York, N.Y. 10018

Unipolar 2000

Price \$384
Response 16 Hz to 22 kHz
Sensitivity 103 dB SPL with 5,000 mV Input
Impedance 8 ohms
THD 0.1% at 110 dB SPL (1 kHz)
Max. power 11.2 V (110 dB SPL)
Design Electret condenser, electrostatic
Weight 1.1 oz.

Features Electrostatic phones with no need for 110V AC line connection; polarizing voltage permanently frozen into electret diaphragms

HD-224

Price \$136
Response 16 Hz to 20 kHz
Sensitivity 94 dB SPL with 1 mW input
Impedance 200 ohms per channel
THD 0.9% at 95 dB SPL (1 kHz)
Max. power 500 mW
Design Circumaural
Weight 8 oz.
Features Designed for good isolation

HD-424

Price \$109
Response 15 Hz to 20 kHz
Sensitivity 102 dB SPL with 1 mW input
Impedance 2K ohms per channel
THD 1% at 126 dB SPL (1 kHz)
Max. power 100 mW
Design Open-back
Weight 7 oz.

HD-414

Price \$75
Response 20 Hz to 20 kHz
Sensitivity 102 dB SPL with 1 mW input
Impedance 2K ohms per channel
THD Under 1% at 126 dB SPL (1 kHz)
Max. power 100 mW
Design Open-back
Weight 5 oz.

HD-400

Price \$44
Response 20 Hz to 18 kHz
Sensitivity 90 dB SPL with 1 mW input
Impedance 600 ohms per channel
THD 1% at 118 dB SPL
Max. power 100 mW
Design Open-back
Weight 3 oz.

Models also available

HD-430, \$119; HD-420, \$85

SIGNET

Signet Co.

33 Shiawassee Ave.
Fairlawn, Ohio 44313

Signet TK-33

Price \$250
Response 10 Hz to 22.5 kHz, ± 2 dB
Sensitivity 100 dB SPL with mW input
Impedance 4 to 16 ohms
THD 0.1% at 110 dB SPL (1 kHz)
Max. power 20 mV (117 dB SPL)
Design Electret condenser
Weight 10 oz. (with cord); 7 oz. (without cord)

Features TK-33 adapter contains a passive-impedance matching transformer; stereo or speaker-operation selector switch; high or low sensitivity switch; two arrays of light-emitting diodes display relative voltage to each channel; adapter will accommodate two stereo headsets if desired

Signet TK-22

Price \$80
Response 20 Hz to 20 kHz
Sensitivity 96 dB SPL with 1 mV input
Impedance 4 to 16 ohms
THD 0.4% at 110 dB SPL (1 kHz)
Max. power 4.5 V (114 dB SPL)
Design Moving-coil dynamic
Weight 9 oz. (with cord); 7 oz. (without cord)

Features Bipolar design; high-compliance dome diaphragm; powerful FSD magnet

SONY

Sony Industries

9 West 57th St.
New York, N.Y. 10019

ECR-500

Price \$120
Response 20 Hz to 20 kHz
Sensitivity 91 dB SPL with 1V input
Impedance 30 ohms
THD 0.03% at 4V input
Max. power 114 dB SPL
Design Uni-electret open-back electrostatic
Weight 12 oz.
Features Supplied with adaptor for connection to amplifier loudspeaker terminals

DR-Z7

Price \$100
Response 20 Hz to 25 kHz
Sensitivity 104 dB/mW SPL
Impedance 110 ohms
THD 0.03% at 90 dB SPL at 1 kHz
Max. power 30 mW
Design Open-air dynamic
Weight 14.8 oz.
Features Acoustic diple diaphragm with palladium coating; Litz wire cable; metal and leather construction

DR-Z6

Price \$85
Response 20 Hz to 25 kHz
Sensitivity 104 dB/mW SPL
Impedance 110 ohms
THD 0.03% at 90 dB SPL at 1 kHz
Design Open-air dynamic
Weight 14.1 oz.
Features Similar to DR-Z7; metal and vinyl construction

DR-6M Monitor

Price \$58
Response 20 Hz to 20 kHz
Sensitivity 110 dB/mW
Impedance 28 ohms
Design Closed-type dynamic
Weight 13 oz.
Features Fold-up design for field monitoring applications

DR-S5

Price \$50
Response 20 Hz to 20 kHz
Sensitivity 102 dB/mW SPL
Impedance 14 ohms
Design Closed-type dynamic
Weight 13.6 oz.
Features Volume and tone controls

DR-S3

Price \$30
Response 20 Hz to 20 kHz
Sensitivity 102 dB/mW
Impedance 10 ohms
Design Closed-type dynamic
Weight 12.3 oz.

Models also available

DR-Z5, \$70; DR-S4, \$40; DR-2, \$22

STANTON

Stanton Magnetics, Inc.

200 Terminal Drive
Plainview, N.Y. 11803

XXI Stereo/Wafers®

Price \$70
Response 20 Hz to 22 kHz

Sensitivity 110 dB SPL with 0.20 mV input
Impedance 100 ohms, $\pm 10\%$ (1 kHz)
THD 0.5% at 110 dB SPL
Max. power 0.1 watts rms channel
Design Open-back
Weight 5.5 oz. without 10' cord
Features Rare-earth elements; soft foam-cushioned headband; specially designed earpiece pivots

Dynaphase 35

Price \$45
Response 20 Hz to 20 kHz
Sensitivity 100 dB SPL with 0.10 mV input (1 kHz, for each channel)
Impedance 15 ohms, $\pm 10\%$ (1 kHz)
THD 0.5% at 110 dB SPL
Max. power 0.2 watts rms/channel
Design Open-back
Weight 7 oz. without cord
Features Special adapter plug to connect to portable radio, record players and TV sets

STAX

American Audioport, Inc.

1407 North Providence Road
Columbia, Mo. 65201

SR Sigma Earspeaker System

Price \$450
Response 30 Hz to 35 kHz, ± 2 dB
Sensitivity 95 dB SPL with 4.5V rms input to adapter
Impedance 35 ohms (adapter box)
THD 0.02% at 1 kHz at 1W
Max. power Protected against overload
Design Electrostatic
Weight 16 oz.
Features Front-facing elements

SR-X Mk 3 Earspeaker System

Price \$300
Response 20 Hz to 25 kHz, ± 1.5 dB
Sensitivity 95 dB SPL with 1.6V rms input
Impedance 35 ohms (adapter box)
THD 0.02% at 1 kHz at 1W
Max. power Protected against overload
Design Electrostatic
Weight 14 oz.

SR-44 Earspeaker System

Price \$120
Response 25 Hz to 20 kHz, ± 1.5 dB
Sensitivity 95 dB SPL with 1.2V rms input to adapter
Impedance 35 ohms (adapter box)
THD 0.02% at 1 kHz at 1W
Max. power Protected against overload
Design Electret
Weight 8 oz.

Models also available

SR-5 Earspeaker System, \$175

SUPEREX

Superex Electronics Corp.

151 Ludlow St.
Yonkers, N.Y. 10705

Studio Master/SM-700

Price \$69.95
Response 10 Hz to 20 kHz, ± 3 dB
Sensitivity 110 dB SPL with 0.6V input
Impedance 35 ohms
THD 0.25% at 110 dB SPL (400 Hz)
Design On-the-ear isolated
Weight 10 oz.
Features Vented magnet design for increased transient response; self-supporting voice-coil assembly



Signet TK-33



Suporex TRL-88



Wharfedale ID-2



Yamaha YH-1000

PRO-B-VI Monitor

Price \$60
Response 15 Hz to 22 kHz, ± 5 dB
Impedance 4 to 16 ohms
THD 0.9% at 110 dB SPL (400 Hz)
Design Around-ear isolation
Weight 15 oz.
Features Two-way woofer/tweeter LC crossover design; twin acoustic woofer chambers

TRL-99

Price \$54.95
Response 15 Hz to 20 kHz, ± 4 dB
Sensitivity 110 dB SPL with 0.6V input
Impedance 35 ohms
THD 0.4% at 110 dB SPL (400 Hz)
Design On-ear fabric-faced open design
Weight 10 oz.
Features Micro-thin Mylar diaphragm drivers

TRL-3

Price \$44.95
Response 40 Hz to 20 kHz, ± 5 dB
Sensitivity 100 dB SPL with 6 mW Input
Impedance 80 ohms
THD 0.6% at 110 dB SPL (400 Hz)
Design Open-air with low-frequency acoustic compensation
Weight 8.5 oz.
Features Acoustically equalized Mylar drivers to regain low end usually lost in open designs; replaceable foam cushions

Models also available

TRL-88, \$49.95

TECHNICS

Panasonic Co.
 One Panasonic Way
 Secaucus, N.J. 07094

EAH-830

Price \$80
Response 15 Hz to 35 kHz
Sensitivity 100 dB SPL with 0.5V input (1 kHz)
THD 0.3% at 100 dB SPL (1 kHz)
Max. power 3V (131 dB SPL)
Design Dynamic
Weight 16 oz. (less cord)
Features Linear-drive design; double-cavity acoustic circuit; high power-handling capacity

EAH-820

Price \$60
Response 15 Hz to 30 kHz
Sensitivity 100 dB SPL with 0.6V input (1 kHz)
THD 0.3% at 100 dB SPL (1 kHz)
Max. power 3V (128 dB SPL)

Design Dynamic
Weight 16 oz. (less cord)
Features Linear-drive design; double-cavity acoustic circuit; high power-handling capacity

EAH-810

Price \$40
Response 20 Hz to 25 kHz
Sensitivity 100 dB SPL with 0.6V input (1 kHz)
THD 0.5% at 100 dB SPL (1 kHz)
Max. power 1V (121 dB SPL)
Design Dynamic
Weight 9 oz. (less cord)
Features Linear-drive design; double-cavity acoustic circuit; high power-handling capacity

TOSHIBA

Toshiba America, Inc.
 280 Park Ave.
 New York, N.Y. 10017

HR-811

Price \$75
Response 20 Hz to 30 kHz
Sensitivity 101 dB SPL with 3V input
Impedance 8 ohms
THD 0.5% at 101 dB SPL (400 Hz)
Design "Complimentary Back" electret
Weight 8.5 oz.
Features "Complimentary Back" electret full-face drive system with ultra-thin 2.5 micron diaphragm

HR-X1

Price \$65
Response 20 Hz to 20 kHz
Sensitivity 101 dB SPL with 3V Input
Impedance 8 ohms
THD 0.5% at 101 dB SPL (400 Hz)
Design "Complimentary Back" electret
Weight 5.8 oz.
Features "Complimentary back" (exclusive)

WHARFEDALE

Rank Hi Fi
 20 Bushes Lane
 Elmwood Park, N.J. 07407

ID-2

Price \$120
Response 20 Hz to 20 kHz, ± 3 dB
Sensitivity 90 dB SPL with 1 mW Input
Impedance 60 ohms

THD 0.3% at 90 dB SPL
Max. power 120 dB SPL
Design Reflex
Weight 12 oz., excluding straight cord supplied
Features Isodynamic driver; printed circuit coil etched on polyester diaphragm; damped hear-through design

YAMAHA

Yamaha International Corp.
 6600 Orangethorpe
 Buena Park, Calif. 90620

YH-1000

Price \$220
Response 20 Hz to 20 kHz
Impedance 100 ohms
THD 0.1% at 90 dB SPL
Max. power 103 dB mV
Design Orthodynamic, supra-aural
Weight 19 oz.
Features 2-inch rare earth cobalt magnet; 2-inch polyester diaphragm; lockable high-adjustment sliders

YH-1

Price \$65
Response 20 Hz to 20 kHz
Impedance 150 ohms
THD 0.3% at 90 dB SPL
Max. power 94 mW
Design Orthodynamic, supra-aural
Weight 9 oz. (without cord)

YH-2

Price \$50
Response 20 Hz to 20 kHz
Impedance 150 ohms
THD 0.3% at 90 dB SPL
Max. power 93 mW
Design Orthodynamic, supra-aural
Weight 7 oz.

YH-3

Price \$35
Response 20 Hz to 20 kHz
Sensitivity 93 dB SPL with 1 mV input
Impedance 150 ohms
THD 0.3% at 95 dB SPL
Design Orthodynamic
Weight 8 oz.

A Note on Prices

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

Microphones

AKG
AKG Acoustics
 91 McKee Drive
 Mahwah, N.J. 07430

C-424

Price \$2,000
Pattern Cardioid Four
Transducer Condenser; two dual diaphragms
Response 20 Hz to 20 kHz
Output -43.5 dBm re 94 dB SPL
Impedance 200 ohms
Features Large-diaphragm quadriphonic mic with FET preamplifier; 3-position pre-attenuator

C-422

Price \$1,900
Pattern Nine variable patterns
Transducer Double-diaphragm condenser
Response 20 Hz to 20 kHz
Output -45 dBm re 94 dB SPL
Impedance 200 ohms
Features Large-diaphragm stereo mic with FET preamplifier; remote pattern selector; aiming LEDs; 3-position pre-attenuator

C-33

Price \$775
Pattern Double cardioid
Transducer Condenser (2)
Response 20 Hz to 20 kHz
Output -43.5 dBm re 94 dB SPL
Impedance 200 ohms
Features Small-diaphragm; FET preamplifier

C-414EB

Price \$675
Pattern Four variable patterns
Transducer Condenser; dual diaphragm
Response 20 Hz to 20 kHz
Output -43.5 dBm re 94 dB SPL
Impedance 200 ohms
Features Large-diaphragm; FET preamplifier; 3-position attenuator; 3-position bass rolloff

C-451E Combo Design

Price \$295
Pattern Cardioid capsule
Transducer Condenser
Response 20 Hz to 20 kHz
Output -39.5 dBm re 94 dB SPL
Impedance 200 ohms
Features Modular mic system; 8 interchangeable capsules and 3 different preamps; available in black or nickel finish

D-900E

Price \$240
Pattern Shotgun-hypercardioid
Transducer Dynamic
Response 60 Hz to 12 kHz
Output -49.5 dBm re 94 dB SPL
Impedance 200 ohms
Features Three-position bass rolloff; available as complete system with various accessories at \$455

D-222EB

Price \$195
Pattern Cardioid
Transducer Two-way dynamic
Response 20 Hz to 18 kHz
Output -55.5 dBm re 94 dB SPL
Impedance 200 ohms
Features Dual-transducer design; bass rolloff; complete with stand adapter and case

D-190SPL

Price \$188
Pattern Cardioid
Transducer Dynamic
Response 30 Hz to 15 kHz
Output -52 dBm re 94 dB SPL
Impedance 200 ohms
Features Kit; includes two D-190E mics, two stand adapters, two table stands, two cables, and cases; available in high impedance as D-190SPH at \$206

D-140E

Price \$185
Pattern Cardioid
Transducer Dynamic
Response 30 Hz to 15 kHz
Output -52 dBm re 94 dB SPL
Impedance 200 ohms
Features Includes stand adapter and case; integral bass rolloff switch

C-510E

Price \$180
Pattern Omni capsule
Transducer Electret condenser
Response 20 Hz to 18 kHz
Output -51 dBm re 94 dB SPL
Impedance 200 ohms
Features Lavalier-type modular mic system; includes power-line module, windscreen, battery, and case

C-505E

Price \$155
Pattern Cardioid capsule
Transducer Electret condenser
Response 40 Hz to 20 kHz
Output -48 dBm re 94 dB SPL
Impedance 200 ohms
Features Modular mic system; 4 optional capsules available; built-in windscreen; includes power-line module, battery, stand adapter, and case

C-501E

Price \$150
Pattern Cardioid capsule
Transducer Electret condenser
Response 40 Hz to 20 kHz
Output -48 dBm re 94 dB SPL
Impedance 200 ohms
Features Includes SE-5E power module, battery, windscreen, stand adapter, and case; modular mic system; four optional capsules available

D-2000E

Price \$150
Pattern Supercardioid

Transducer Dynamic
Response 35 Hz to 17 kHz
Output -52 dBm re 94 dB SPL
Impedance 200 ohms
Features Integral ball-head wire-mesh windscreen; two-position equalization and off switch; includes stand adapter and case

D-320B

Price \$145
Pattern Cardioid
Transducer Dynamic
Response 80 Hz to 18 kHz
Output 128 dB SPL
Impedance 200 ohms
Features Plug-in transducer system; 3-position bass rolloff switch; rugged die-cast housing; shock-mounted transducer; dual windscreen/pop filter

D-170E

Price \$125
Pattern Supercardioid
Transducer Dynamic
Response 50 Hz to 15 kHz
Output -53.5 dBm re 94 dB SPL
Impedance 200 ohms
Features Ball-head wire-mesh windscreen; antifeedback mic; includes stand adapter and case

D-200E1

Price \$125
Pattern Cardioid
Transducer Two-way dynamic
Response 30 Hz to 15 kHz
Output -56 dBm re 94 dB SPL
Impedance 200 ohms
Features Dual-transducer design; includes stand adapter and case

D-310

Price \$110
Pattern Cardioid
Transducer Dynamic
Response 80 Hz to 18 kHz
Output 128 dB SPL
Impedance 200 ohms
Features Rugged die-cast housing; shock-mounted transducer; dual windscreen/pop filter

D-1000E

Price \$100
Pattern Cardioid
Transducer Dynamic
Response 40 Hz to 17 kHz
Output -52 dBm re 94 dB SPL
Impedance 200 ohms
Features Rugged construction with 3-position equalization switch; includes stand adapter and case

D-160E1

Price \$88
Pattern Omnidirectional
Transducer Dynamic
Response 40 Hz to 20 kHz
Output -58 dBm re 94 dB SPL
Impedance 250 ohms
Features For recording and broadcast; includes windscreen, stand adapter, and case

D-130E

Price \$80
Pattern Omnidirectional
Transducer Dynamic
Response 40 Hz to 20 kHz
Output -58 dBm re 94 dB SPL
Impedance 200 ohms
Features Rugged enough for field use; includes stand adapter and case

D-109

Price \$80
Pattern Omnidirectional
Transducer Dynamic
Response 70 Hz to 12 kHz
Output -58 dBm re 94 dB SPL
Impedance 200 ohms
Features Lightweight lavalier with neck cord, tie clasp, and case

D-120E

Price \$75
Pattern Cardioid
Transducer Dynamic
Response 80 Hz to 17 kHz
Output -54 dBm re 94 dB SPL
Impedance 200 ohms
Features Ball-head type; includes stand adapter and case; available as D-120ES with on/off switch at \$80

Models also available

C-34, \$1,300; D-224E, \$360; D-12E, \$205; D-330 BT, \$185; D-120SPL, \$168; C-502E, \$150; D-110, \$125; D-310S, \$115; D-190E, \$90; D-58E, \$82

AUDIO TECHNICA

Audio Technica Co.
33 Shiawassee Ave.
Fairlawn, Ohio 44313

AT-814

Price \$115
Pattern Cardioid
Transducer Moving-coil dynamic
Response 50 Hz to 16 kHz
Output -56 dBm
Impedance 600 ohms
Features No switch; 16½' cable with ¼" phone plug or XLR

AT-812

Price \$95
Pattern Cardioid
Transducer Moving-coil dynamic
Response 50 Hz to 18 kHz
Output -60 dBm
Impedance 600 ohms
Features Recessed on/off switch; 16½' cable with ¼" phone plug or XLR

AT-811

Price \$85
Pattern Cardioid
Transducer Electret condenser
Response 50 Hz to 20 kHz
Output -56 dBm
Impedance 600 ohms
Features Recessed on/off switch; 16½' cable with ¼" phone plug or XLR

AT-803S

Price \$85
Pattern Omnidirectional
Transducer Subminiature electret condenser
Response 50 Hz to 15 kHz
Output -57 dBm
Impedance 600 ohms
Features Battery and recessed on/off switch on belt clip; 25' small diameter cable with ¼" phone plug or XLR

AT-816/2 Recording Microphone Pair

Price \$60/pr.
Pattern Cardioid
Transducer Dynamic
Response 50 Hz to 15 kHz
Output -60 dBm (0 dB = 1 mW/10 dynes/cm²)
Impedance 600 ohms
Features Stereo pair with desk stands; integrated 13' cable with ¼" phone plugs; on/off switch

AT-805S

Price \$50
Pattern Omnidirectional
Transducer Miniature electret condenser
Response 50 Hz to 15 kHz
Output -57 dBm
Impedance 600 ohms
Features Built in switch; belt clip

Models also available

AT-813, \$100; AT-802, \$70; AT-801, \$70

AUDIOTEX

G. C. Electronics
Div. of Hydrometals, Inc.
400 South Wyman St.
Rockford, Ill. 61101

30-2316

Price \$57
Pattern Unidirectional
Response 50 Hz to 13 kHz
Output -69 dBm
Impedance 600 ohms
Features 20' cable; 10.5 oz.; table stand; snap-out stand clamp; and black vinyl storage case

30-2314

Price \$39
Pattern Cardioid
Response 50 Hz to 13 kHz
Output -58 dBm
Impedance 50 ohms
Features 20' cable; 13.5 oz.; slip-out stand clamp; lavalier holder

30-2310

Price \$32
Pattern Cardioid
Response 80 Hz to 13 kHz
Output -73/-54 dBm (switchable)
Impedance 600/50 ohms (switchable)
Features 10' cord; 2.5 oz.; desk stand; slip-out stand clamp

30-2318

Price \$25
Pattern Cardioid directional
Response 40 Hz to 16 kHz
Output -65 dBm
Impedance 1K ohms
Features 13' cable; 2.5 oz.; tie-tack holder; mercury battery

Models also available

30-2312, \$35

BEYER

Burns Audiotechnics, Inc.
5-05 Burns Ave.
Hicksville, N.Y. 11801

M-818

Price \$149.95
Pattern Cardioid
Transducer Dynamic
Response 50 Hz to 16 kHz

Impedance 500 ohms
Features Matched stereo pair with attached cables; two table stands; mic clips

CERWIN-VEGA

Cerwin-Vega, Inc.
12250 Montague St.
Arleta, Calif. 91331

OE-1

Price \$125
Pattern Omnidirectional
Transducer Electret
Response 50 Hz to 20 kHz
Output -70 dBm re 94 dB SPL
Impedance 600/10K ohms
Features Impedance switch

UE-1

Price \$115
Pattern Cardioid
Transducer Electret
Response 80 Hz to 20 kHz
Output -70 dBm re 94 dB SPL
Impedance 600/10K ohms
Features Impedance switch; tone switch

UD-1

Price \$100
Pattern Cardioid
Transducer Dynamic
Response 70 Hz to 15 kHz
Output -73 dBm re 94 dB SPL
Impedance 200 ohms
Features Built-in pop filter

ELECTRO-VOICE

Electro-Voice, Inc.
600 Cecil St.
Buchanan, Mich. 49107

RE-20

Price \$349
Pattern Cardioid
Transducer Dynamic Variable-D*
Response 40 Hz to 18 kHz
Output 57 dBm re 94 dB SPL
Impedance 50/150/250 ohms (switchable)
Features Wide-range response; Variable-D* design eliminates proximity effect; built-in blast filter; 2-year unconditional warranty

CO-15P

Price \$255
Pattern Omnidirectional
Transducer Condenser
Response 20 Hz to 20 kHz
Output 49 dBm re 94 dB SPL
Impedance 150 ohms
Features Wide-range response; 2-year unconditional warranty; requires 8-50 VDC via phantom power method

RE-55

Price \$232
Pattern Omnidirectional
Transducer Dynamic
Response 40 Hz to 20 kHz
Output 57 dBm re 94 dB SPL
Impedance 150 ohms
Features Wide-range response; may be used as secondary lab standard; 2-year unconditional warranty

RE-18

Price \$225

Pattern Super cardioid
Transducer Dynamic Variable-D*
Response 80 Hz to 15 kHz
Output 57 dB re 94 dB SPL
Impedance 150 ohms
Features Shock-mounted; Variable-D* design eliminates proximity effect; built-in blast filter; 2-year unconditional warranty

RE-10

Price \$127.50
Pattern Super cardioid
Transducer Dynamic Variable-D*
Response 90 Hz to 13 kHz
Output 56 dBm re 94 dB SPL
Impedance 150 ohms
Features Variable-D* design eliminates proximity effect; no off-axis coloration; bass rolloff switch; 2-year unconditional warranty; RE-11 similar with built-in blast filter (\$132)

CO-90

Price \$112.50
Pattern Omnidirectional
Transducer Condenser
Response 40 Hz to 15 kHz
Output 57 dBm re 94 dB SPL
Impedance 150 ohms
Features Miniature lavalier; wide-range response; tie clip; belt clip; windscreen; storage pouch; 2-year unconditional warranty

DO-54

Price \$112.50
Pattern Omnidirectional
Transducer Dynamic
Response 50 Hz to 18 kHz
Output 58 dBm re 94 dB SPL
Impedance 150 ohms
Features Wide-range response; also available in white finish as D0-54W; 2-year unconditional warranty

1776

Price \$111.50
Pattern Cardioid
Transducer Condenser Single-D
Response 60 Hz to 18 kHz
Output 50 dBm re 94 dB SPL
Impedance 150 ohms
Features Uses 4.5-volt battery; on/off switch; built-in blast filter; 1777 is phantom-powerable (\$126)

DO-56

Price \$100
Pattern Omnidirectional
Transducer Dynamic
Response 80 Hz to 18 kHz
Output 61 dBm re 94 dB SPL
Impedance 150 ohms
Features Shock-mounted; built-in blast filter; 2-year unconditional warranty

671A

Price \$86.25
Pattern Cardioid
Transducer Dynamic Single-D
Response 60 Hz to 14 kHz
Output 57 dBm re 94 dB SPL
Impedance 150 ohms/Hi-Z (switchable)
Features On/off switch, lockable in on position; built-in blast filter

647AL

Price \$79.75
Pattern Omnidirectional
Transducer Dynamic
Response 60 Hz to 12 kHz
Output 60 dBm re 94 dB SPL
Impedance 150 ohms
Features Lavalier; neck-cord assembly; available in high-impedance version (647AH)

635A

Price \$69.75
Pattern Omnidirectional
Transducer Dynamic
Response 80 Hz to 13 kHz
Output 55 dBm re 94 dB SPL
Impedance 150 ohms
Features Rugged construction; 2-year unconditional warranty

Models also available

CS-15P, \$237; RE-15, \$202; DS-35, \$115.50; RE-85, \$106.50; 660, \$82.75; 631B, \$60.75

JVC

U.S. JVC Corp.
58-75 Queens Midtown Expressway
Maspeth, N.Y. 11378

M-510

Price \$190
Pattern Super-directional/unidirectional
Transducer Electret
Response 40 Hz to 20 kHz
Output -68 dBm / -71 dBm
Impedance 600 ohms
Features Unidirectional capsule

HM-200E

Price \$100
Pattern Binaural
Transducer Electret
Response 40 Hz to 18 kHz
Impedance 600 ohms

M-201

Price \$60
Pattern Unidirectional
Transducer Electret
Response 40 Hz to 18 kHz
Output -71 dBm
Impedance 600 ohms
Features Stereo microphone

LAFAYETTE

Lafayette Electronics
111 Jericho Turnpike
Syosset, N.Y. 11791

MO-102

Price \$39.99
Pattern Omnidirectional
Transducer Dynamic
Response 50 Hz to 13 kHz
Output -58 dBm
Impedance 600 to 50K ohms
Features Windscreen; 15' cable

MU-101

Price \$37.99
Pattern Unidirectional
Transducer Dynamic
Response 200 Hz to 10 kHz
Output -56 dBm
Impedance 600 to 50K ohms
Features On/off switch; Switchcraft connector; 15' cable

99-46427

Price \$37.99
Pattern Unidirectional cardioid
Transducer Electret condenser
Response 30 Hz to 16 kHz
Output -70 dBm
Impedance High/low
Features Windscreen; tripod desk stand; floor-stand adapter; 1/2" phone plug; 20' cable

MARLBORO

Marlboro Sound Works
Div. of M.I.C.A.
170 Eileen Way
Syosset, N.Y. 11791

M-900

Price \$89
Pattern Cardioid
Transducer Magnetic
Response 50 Hz to 17 kHz
Output -74 dBm (low); -58 dBm (high)
Impedance 200 ohms (low); 20K ohms (high)
Features Impedance selectable inside mike with simple connector; 16' heavy-duty cable, XLR connector

M-500

Price \$87
Pattern Cardioid
Transducer Magnetic
Response 50 Hz to 16 kHz
Output -76 dBm (low); -56 dBm (high)
Impedance 200 ohms (low); 20K ohms (high)
Features Impedance selectable inside mike with simple connector; 16-foot heavy duty cable, XLR connector

M-200

Price \$31
Pattern Cardioid
Transducer Magnetic
Response 60 Hz to 13 kHz
Output -80 dBm (low); -61 dBm (high)
Impedance 300 ohms (low); 50K ohms (high)
Features Dual impedance; 10' detachable cable with phone plug attached

M-50

Price \$21
Pattern Cardioid
Transducer Magnetic
Response 60 Hz to 13 kHz
Output -61 dBm
Impedance 50K ohms
Features Ten-foot heavy-duty cable with phone plug attached

M-30

Price \$14
Pattern Cardioid
Transducer Magnetic
Response 70 Hz to 12 kHz
Output -56 dBm
Impedance 50K ohms
Features Ten-foot cable with phone plug

Models also available

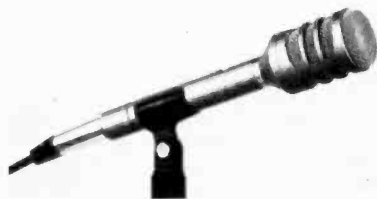
M-400, \$49; M-300, \$42

NAKAMICHI

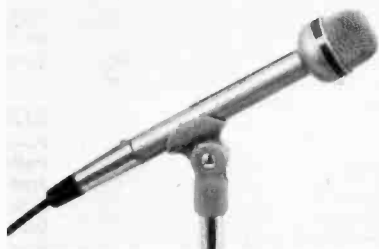
Nakamichi USA Corp.
1101 Colorado Ave.
Santa Monica, Calif. 90401

CM-1000

Price \$355
Pattern Cardioid
Transducer Condenser
Response 20 Hz to 20 kHz, ± 2.5 dB
Output -45 dBm re 94 dB SPL (10 micro-bars)
Impedance 600 ohms
Features Gold-metallized polyester-film diaphragm; optional CP-102 super-omnidirectional capsule, \$125; power supply in separate housing with -10 dB/-20 dB attenuator switch and proximity-effect switch



Audio-Technica AT-812



Electro-Voice RE-18



Numark UC-935



Shure SM-81

DM-1000

Price \$245
Pattern Cardioid
Transducer Moving-coil dynamic
Response 30 Hz to 18 kHz, ± 2.5 dB
Output -54 dBm re 94 dB SPL (10 micro-bars)
Impedance 250 ohms
Features Triple-layer windscreen, double-construction casing reduces mechanical noise pickup for hand-held use; hum-canceling coils

CM-50

Price \$135
Pattern Super-omni
Transducer Electret condenser
Response 20 Hz to 18 kHz, ± 3.5 dB
Output -53 dBm re 94 dB SPL (10 micro-bars)
Impedance 250 ohms
Features Miniature mic with tie clip; detachable foam windscreen for outdoor use

DM-500

Price \$85
Pattern Cardioid
Transducer Moving-coil dynamic
Response 50 Hz to 15 kHz
Output -51 dBm re 94 dB SPL (110 micro-bars)
Impedance 250 ohms
Features Integral windscreen; shock-mounting case; high front-to-rear ratio

CM-100

Price \$85
Pattern Cardioid
Transducer Electret condenser
Response 30 Hz to 18 kHz, ± 3.5 dB
Output -54 dBm re 94 dB SPL (10 micro-bars)
Impedance 200 ohms
Features Accepts same capsules as CM-300, including the CP-2 omni capsule (\$15) included with the CM-300

Models also available

CM-700, \$185; CM-300, \$135

NEUMANN

Gotham Audio Corp.
741 Washington St.
New York, N.Y. 10014

KM-84

Price \$340
Pattern Cardioid
Transducer Condenser
Response 20 Hz to 20 kHz
Output -38 dBm re 10 dyne/cm²
Impedance 200 ohms

Features Flat off-axis response; phantom-powered

NUMARK

Numark Electronics Corp.
503 Raritan Center
Edison, N.J. 08817

UD-985

Price \$110
Pattern Unidirectional
Transducer Dynamic
Response 50 Hz to 16 kHz
Impedance 600 ohms
Features Balanced line cable; XLR connectors to phone plug; -73 dB sensitivity at 1 kHz

UD-975

Price \$99
Pattern Unidirectional
Transducer Dynamic cardioid
Response 50 Hz to 16 kHz
Impedance 600 ohms
Features Balanced line cable; XLR connectors to phone plug; -73 dB sensitivity at 1 kHz; voice and music selection switch

UC-935

Price \$59.95
Pattern Unidirectional
Transducer Electret condenser
Response 30 Hz to 16 kHz
Impedance 600 ohms

TC-995

Price \$39.95
Transducer Electret condenser
Response 50 Hz to 16 kHz
Impedance 800 ohms
Features Tie-pin mic; unbalanced line cable; XLR connectors to phone plug; 66 dB sensitivity

Models also available

UC-965, \$85; UC-945, \$79.95

OLSON

Olson Electronics
260 S. Forge St.
Akron, Ohio 44327

MK-105

Price \$25.98
Pattern Omnidirectional
Transducer Electret
Response 20 Hz to 12 kHz
Output 70 dB
Impedance 600 ohms
Features Ultra-miniature lavalier; FET preamp; 16' cable with 1/4" phone plug

PML

Ercona Corp.
2492 Merrick Road
Bellmore, N.Y. 11710

ST-8

Price \$1,495
Pattern Variable from omni, through cardioid, to figure-eight
Transducer Condenser
Response 30 Hz to 20 kHz
Impedance 200 ohms
Features Stereo

DC-63

Price \$740
Pattern Variable: 44 distinct directional patterns
Transducer Condenser
Response 30 Hz to 20 kHz
Impedance 200 ohms balanced
Features Symsi-(phantom) powered with easy operating switches

DC-20

Price \$220
Pattern Omnidirectional
Transducer Condenser
Response 30 Hz to 20 kHz
Impedance 200 ohms; also high-impedance
Features Symsi-(phantom) powered

Models also available

DC-73, \$299; DC-21, \$230

REALISTIC

Radio Shack
1400 Ohe Tandy Center
Ft. Worth, Tex. 76102

33-922

Price \$59.95
Pattern Cardioid
Transducer Dynamic
Response 80 Hz to 15 kHz
Output -76 dB re 74 dB SPL (1V)
Impedance 200 ohms
Features Selectable for flat response from close or distant source

33-1059

Price \$39.95
Pattern Dual pattern uni-omni
Transducer Electret
Response 50 Hz to 13 kHz
Output -71 dBm re 74 dB SPL (1V)
Impedance 600 ohms
Features Selectable directivity pattern

33-919 Stereo

Price \$34.95
Pattern Dual-pattern cardioid
Transducer Electret
Response 30 Hz to 15 kHz
Output -72 dBm re 74 dB SPL (1V)
Impedance 600 ohms
Features Narrow/wide stereo selector

33-992

Price \$29.95
Pattern Super cardioid
Transducer Dynamic
Response 80 Hz to 12 kHz
Output -72 dBm (low 2), -53 dBm (high 2) re 74 dB SPL (1V)
Impedance 600/50K ohms
Features Dual impedance selection

Models also available

33-983, \$55.95; 33-1045, \$29.95;
33-985 Highball-2, \$19.95

SANSUI

Sansui Electronics Corp.
1250 Valley Brook Ave.
Lyndhurst, N.J. 07071

DM-11

Price \$110
Pattern Cardioid
Transducer Dynamic
Response 100 Hz to 15 kHz
Output -76 dBm
Impedance 600 ohms
Features Windscreen; balanced output with 6-meter cord

EM-1

Price \$80
Pattern Cardioid
Transducer Electret condenser
Response 50 Hz to 15 kHz
Output -71.5 dBm
Impedance 600 ohms
Features Balanced output with 6-meter cord and phone plug

SHURE

Shure Brothers, Inc.
222 Hartrey Ave.
Evanston, Ill. 60204

SM81

Price \$225
Pattern Cardioid
Transducer Condenser
Response 20 Hz to 20 kHz
Output -40 dBm re 94 dB SPL
Impedance 150 ohms
Features Simplex-(phantom) powered over 12-48V; 10-dB attenuator; low-frequency response switch; studio recording mic; requires external power supply

SM53

Price \$223.80
Pattern Cardioid
Transducer Dynamic
Response 70 Hz to 16 kHz
Output -60 dBm re 94 dB SPL
Impedance 150 ohms
Features Low-end rolloff switch; highly effective shock-mount; hum rejection system; minimal proximity effect

SM59

Price \$144
Pattern Cardioid
Transducer Dynamic
Response 50 Hz to 15 kHz

Output -61 dBm re 94 dB SPL
Impedance 150 ohms
Features Mechano-pneumatic shock-mount; wide-range smooth frequency response; professional broadcast and recording mic

SM56

Price \$138
Pattern Cardioid
Transducer Dynamic
Response 50 Hz to 15 kHz
Output -57 dBm re 94 dB SPL
Impedance 38/150 ohms
Features Built-in spherical windscreen; hand-held vocal mic; optimized presence peak and proximity effect

SM61

Price \$96.60
Pattern Omnidirectional
Transducer Dynamic
Response 50 Hz to 14 kHz
Output -61 dBm re 94 dB SPL
Impedance 150 ohms
Features Built-in shock-mount; built-in pop/wind filter; popular hand-held broadcast mic

516EQ

Price \$91.80
Pattern Cardioid
Transducer Dynamic
Response 50 Hz to 15 kHz
Output -59 dBm re 94 dB SPL
Impedance 150 ohms
Features Taping mic with switchable equalizers at 190 Hz, 560 Hz, 1.65 kHz and 4.9 kHz; available matched pair for stereo (516EQ-PR) \$165

Models also available

SM76, \$175.80; SM57, \$108;
SM17, \$69.60

SONY

Sony Industries
9 West 57th St.
New York, N.Y. 10016

PROFESSIONAL SERIES

C-76

Price \$750
Pattern Super-unidirectional
Transducer Electret condenser
Response 40 Hz to 16 kHz
Output 38 dB (12.6 mV) re 94 dB SPL
Impedance 250 ohms
Features Gun type; windscreen; low-cut switch; AC/DC operation; LED low-power indicator (for DC battery operation)

C-38B

Price \$505
Pattern Switchable unidirectional/omnidirectional
Transducer Condenser
Response 30 Hz to 16 kHz
Output 48 dB (4 mV) re 94 dB SPL
Impedance 250 ohms
Features Uses internal battery or phantom power; equalizer (M, M1, V1, V2) switch; high-cut switch; pad switch; FET circuit; windscreen; shock-mounting; carrying case

ECM-53FP

Price \$285
Pattern Cardioid
Transducer Back electret condenser
Response 40 Hz to 15 kHz
Output 50 dB (2 mV) re 94 dB SPL
Impedance 250 ohms

Features Flexible mount for desk or podium; windscreen; carrying case; stand adapter; up to 4,600 hours continuous battery life

ECM-56F

Price \$245
Pattern Cardioid
Transducer Back electret condenser
Response 20 Hz to 16 kHz
Output -54 dBm re 94 dB SPL
Impedance 250 ohms
Features Use 3 phantom power (48V DC) or batteries (9V); studio quality vocal and instrumental mic; stand or room mounting; 8 dB pad and bass rolloff switch; XLR connector; balanced output

ECM-64P

Price \$235
Pattern Omnidirectional
Transducer Electret condenser
Response 40 Hz to 20 kHz
Output 54 dB (1.6 mV) re 94 dB SPL
Impedance 250 ohms
Features Rubber grommet eliminates touch noises; double windscreen; phantom power or battery operation; battery-saver switch shuts mic off when connector is unplugged; carrying case; mic holder; mic cable

ECM-33F

Price \$185
Pattern Cardioid
Transducer Back electret condenser
Response 20 Hz to 20 kHz
Output -54 dBm re 94 dB SPL
Impedance 250 ohms
Features Battery (9V) or phantom power (48V DC) operation; bass rolloff switch; 18 dB pad switch; studio quality instrumental and free-field mic; XLR connector; balanced output

ECM-30

Price \$100
Pattern Omnidirectional
Transducer Electret condenser
Response 50 Hz to 14 kHz
Output 55 dB (2 mV) re 94 dB SPL
Impedance 250 ohms
Features Ultra-miniature design is inconspicuous in use; up to 3,100 hours continuous use on one battery; balanced output; carrying case; windscreen; tie clip

SEMI PRO/CONSUMER SERIES

ECM-990F

Price \$150
Pattern Two unidirectional elements (single-point stereo)
Transducer Back electret condenser
Response 40 Hz to 16 kHz
Output -57 dBm re 94 dB SPL
Impedance 200 ohms
Features Stereo performance with one mic; directivity adjustable from 90 to 180 degrees; 1.5V AA battery operation; bass rolloff switch; ¼" phone plug; unbalanced output

F-560

Price \$90
Pattern Unidirectional
Transducer Dynamic
Response 80 Hz to 13 kHz
Output -58 dB (1.2 mV) re 94 dB SPL
Impedance 200 ohms
Features Low-cut switch; vibration-free structure; mic holder

ECM-150M

Price \$65
Pattern Omnidirectional
Transducer Electret condenser
Response 40 Hz to 13 kHz

Output -55.8 dBm re 94 dB SPL
Impedance 250 ohms
Features Ultra-miniature lavalier mic; battery operation; 1/4" phone and mini-plug connectors; supplied with mic stand/case, tie clip, and wind-screen

ECM-31M

Price \$65
Pattern Unidirectional
Transducer Electret condenser
Response 50 Hz to 13 kHz
Output 54 dB (2 mV) re 94 dB SPL
Impedance 250 ohms
Features Adjustable telescoping wand; windscreen; up to 7,000 hours on one AA battery; mic holder

ECM-220FA

Price \$50
Pattern Unidirectional
Features Talk switch; multipurpose vocal (instrument); long battery life

F-540

Price \$45
Pattern Unidirectional
Transducer Dynamic
Response 80 Hz to 13 kHz
Output 58 dB (1.6 mV) re 94 dB SPL
Impedance 300 ohms
Features Talk switch; built-in windscreen; mic holder; plug adapter

ECM-210S

Price \$35
Pattern Unidirectional
Transducer Electret condenser
Response 50 Hz to 12 kHz
Output 56 dB (1.6 mV) re 94 dB SPL
Impedance 200 ohms
Features Dual-pin plug for tape recorders that have remote start/stop capability; start/stop switch on mic body; up to 10,000 hours of continuous operation on AA power supply; mic desk stand

ECM-210M

Price \$32
Pattern Unidirectional
Transducer Electret condenser
Response 50 Hz to 12 kHz
Output 56 dB (1.6 mV) re 94 SPL
Impedance 200 ohms
Features Mini-plug to fit most portable tape recorders; up to 10,000 hours of continuous operation on AA power supply; mic desk stand

F-99M

Price \$30
Pattern Two unidirectional elements (single-point stereo)
Transducer Dynamic
Response 80 Hz to 12 kHz
Output 61 dB (0.9 mV) re 94 dB SPL
Impedance 200 ohms
Features Stereo recording with a single mic, mini-plug connector; mic stand

F-500S

Price \$24
Pattern Unidirectional
Transducer Dynamic
Response 80 Hz to 12 kHz
Output 58 dB (1.2 mV) re 94 dB SPL
Impedance 320 ohms
Features Dual plugs for connection to recorder with start/stop capability; start/stop switch on mic body; mic holder

F-500

Price \$22
Pattern Unidirectional
Transducer Dynamic

Response 80 Hz to 12 kHz
Output 58 dB (1.2 mV) re 94 dB SPL
Impedance 320 ohms
Features Mini-plug connections; mic holder

Models also available

C-74, \$635; C-37P, \$455; F-660, \$250; ECM-65F, \$235; ECM-50PS, \$225; F-115, \$160; ECM-41, \$95; ECM-23F, \$100; ECM-170AM, \$75; ECM-260F, \$63; ECM-99A, \$60; ECM-16, \$38; F-510, \$28

SUPERSCOPE BY MARANTZ

Superscope, Inc.
 20525 Nordhoff St.
 Chatsworth, Calif. 91311

EC-9P

Price \$100
Pattern Cardioid
Transducer Electret condenser
Response 30 Hz to 17 kHz
Output -62 dBm re 94 dB SPL
Impedance 250 ohms
Features Professional mic; standard cannon output; low-cut filter; 10 dB pad; optional power operation

EC-33S

Price \$60
Pattern Uni- and bidirectional
Transducer Electret condenser
Response 50 Hz to 15 kHz
Output -52 dBm re 94 dB SPL
Impedance 1K ohms
Features Patented pull-apart design allows use as a one-point stereo mic or 2 separate monaural mics; remote stop/start switch

EC-7

Price \$56
Pattern Cardioid
Transducer Electret condenser
Response 40 Hz to 16 kHz
Output -58 dBm re 94 dB SPL
Impedance 250 ohms
Features Low-cut filter; on/off switch; floor-stand adapter

EC-12B

Price \$50
Pattern Omnidirectional
Transducer Electret condenser
Response 100 Hz to 15 kHz
Output -58 dBm re 94 dB SPL
Impedance 250 ohms
Features Miniature mic; telescopic rod; tie clip; floor-stand adapter

EC-3S

Price \$28
Pattern Cardioid
Transducer Electret condenser
Response 50 Hz to 15 kHz
Output -58 dBm re 94 dB SPL
Impedance 1.5K ohms
Features Remote stop/start switch; desk stand; windscreen

EC-1

Price \$16
Pattern Omnidirectional
Transducer Electret condenser
Features Desk stand

Models also available

EC-15P, \$80; EC-5, \$38; EC-3, \$24

TECHNICS

Panasonic Co.
 One Panasonic Way
 Secaucus, N.J. 07094

RP-3540E

Price \$70
Pattern Cardioid
Transducer Electret-condenser
Response 40 Hz to 14 kHz
Impedance 600 ohms
Features Stand; mic holder; 3/8" adapter; windscreen; good in vocal applications

RP-3500E

Price \$60
Pattern Cardioid
Transducer Electret-condenser
Response 50 Hz to 12 kHz
Impedance 600 ohms
Features Stand; mic holder; 3/8" adapter; windscreen; good in close-up milking

RP-3210E

Price \$60
Pattern Stereo cardioid
Transducer Electret-condenser
Response 50 Hz to 12 kHz
Impedance 600 ohms
Features Stand; mic holder; 3/8" adapter; 160 degrees stereo separation

RP-3330

Price \$30
Pattern Cardioid
Transducer Dynamic
Response 50 Hz to 12 kHz
Impedance 400 ohms
Features Stand; mic holder; 3/8" adapter; windscreen; instrumental, general-purpose use

TURNER

Turner Div.
Conrac Corp.
 716 Oakland Rd., N.E.
 Cedar Rapids, Iowa 52402

SE-13

Price \$90
Pattern Cardioid
Transducer Dynamic
Response 50 Hz to 15 kHz
Output -77 dBm
Impedance 150 ohms
Features Ball screen

SE-11

Price \$90
Pattern Cardioid
Transducer Dynamic
Response 50 Hz to 15 kHz
Output -77 dBm
Impedance 150 ohms

2760

Price \$47
Pattern Omnidirectional
Transducer Dynamic
Response 50 Hz to 15 kHz
Output -56 dBm
Impedance 150 ohms

Car Stereo Systems

Radio/Tape Players & Tape Players

ALTUS

Altus Corp.
6 Main St.
Melrose, Mass. 02176

CLA-3740 Radio/Tape Player

Price \$410.95
Dimensions 2 4/5H x 7 1/10W x 6D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; Treble
R/P resp. 30 Hz to 12 kHz, 45 dB (w/o NR)
Output 15 watts (11.75 dBW) per channel continuous into 8 ohms from 30 Hz to 20 kHz

RADIO
Format Stereo
Loc/Dst sw. Yes
AFC No
St/Mono sw. Yes
Dig. readout Yes
Pushbuttons 5 AM or 5 FM
Features FM muting; digital clock; front-/back fader

PBH-2385 Radio/Tape Player

Price \$258.95
Dimensions 2 3/4H x 7 1/5W x 6 1/2D
Mounting In dash
Format 8-Track
Fast-forward Yes
Controls Bass; treble
R/P resp. 30 Hz to 12 kHz
S/N 50 dB (w/o NR)
Output 15 watts (11.75 dBW) per channel continuous into 8 ohms from 30 Hz to 20 kHz

RADIO
Format Stereo
Loc/Dst sw. Yes
AFC No
St/Mono sw. No
Dig. readout No
Pushbuttons 5 AM or 5 FM
Features Bass boost; repeat; front/back fader; tape eject switch

CXR-2376 Radio/Tape Player

Price \$249.95
Dimensions 1 3/4H x 7W x 5 3/20D

Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
R/P resp. 30 Hz to 10 kHz
S/N 55 dB (w/o NR)
Output 5 watts (7 dBW) per channel continuous into 4 ohms from 30 Hz to 15 kHz

RADIO
Format Stereo
Loc/Dst sw. Yes
AFC No
St/Mono sw. No
Dig. readout No
Features DIN standard nosepiece

Models also available

ELR-3742 Radio/Tape Player, \$383.95; CTH-2392 Radio/Tape Player, \$312.95

B.I.C.

B.I.C./Avnet
South Service Road
Westbury, N.Y. 11590

C-1 Two-speed Tape Player

Price \$229.95
Dimensions 2 5/8H x 6 1/2W x 8D
Mounting Under dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Dolby
R/P resp. 35 Hz to 15 kHz, ± 3 dB at 1 1/2; 20 Hz to 20 kHz, ± 3 dB at 3 3/4 (play-back only)

S/N 58 dB (w/NR)/58 dB (w/o NR)
THD 1.1% (1 watt at 1 kHz)
Output 12 watts (10.75 dBW) per channel continuous into 4 ohms from 50 Hz to 16 kHz with no more than 1% THD

RADIO
Features Two speeds (1 1/2 ips, 3 3/4 ips)

BLAUPUNKT

Robert Bosch Corp.
2800 S. 25th Ave.
Broadview, Ill. 60153

Berlin Electronic Radio/Tape Player

Price \$1,239.60
Dimensions 1 3/4H x 6 3/4W x 6 3/8D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
THD 1.1%
THD ref. lvl. 1W

Output 5 watts (7 dBW) per channel continuous into 4 ohms

RADIO
Format Stereo
Loc/Dst sw. No
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons 2 AM or 3 FM
Features AM/FM/LW/SW radio

CR-2001 Radio/Tape Player

Price \$350.90
Dimensions 2H x 7 1/16W x 5 1/8D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Noise red. Dolby
S/N 53 dB (w/o NR)
S/N ref. lvl. 1 kHz, 0 dB
THD 1%
THD ref. lvl. 1 kHz, 10 dB
Output 7.5 watts (8.75 dBW) per channel continuous into 4 ohms from 35 Hz to 14 kHz with no more than 1% THD

RADIO
Format Stereo
FM sens. 0.09 microvolts for 50 dB quieting
Selectivity 6 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons 5 AM or 5 FM

Essen-CRUS Radio/Tape Player

Price \$277
Dimensions 1 3/4H x 7W x 5 1/4D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
S/N 30 dB (w/o NR)
S/N ref. lvl. 1 μ V
THD 2%
THD ref. lvl. 1W
Output 9 Watts (9.5 dBW) per channel continuous into 4 ohms with no more than 2% THD

RADIO
Format Stereo
Loc/Dst sw. No
AFC Yes
St/Mono sw. Yes
Dig. readout No

CR-8000 Radio/Tape Player

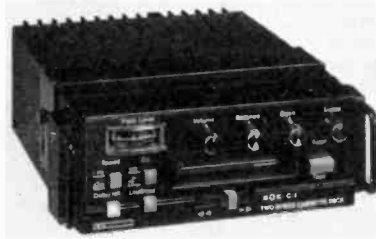
Price \$192.40
Dimensions 1 3/4H x 7W x 5 3/16D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
S/N 50 dB (w/o NR)
S/N ref. lvl. 1 kHz, 0 dB



Altus CLA-3740



Concord HP-350



B.I.C. C-1



Clarion PE-684A



Fultron 16-6800

THD 1%
THD ref. lvl. 1 kHz, 10 dB
Output 7.5 watts (8.75 dBW) per channel continuous into 4 ohms from 35 Hz to 14 kHz with no more than 1% THD

RADIO
Format Stereo
FM sens. 0.09 microvolts for 50 dB quieting
Selectivity 6 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. No
Dig. readout No
Features Adjustable shafts; program select

Models also available

CR-2000D Radio/Tape Player, \$303.40; CR-4095 Radio/Tape Player, \$293.60; CR-2000 Radio/Tape Player, \$275.10

BOMAN

Boman Industries
 9300 Hall Road
 Downey, Calif. 90241

Mach 90 Radio/Tape Player

Price \$499.95
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
RADIO
Format FM Stereo
Loc/Dst sw. Yes
Features Includes graphic equalizer and digital clock; frequency scan/seek control

Mach 50 Radio/Tape Player

Price \$319.95
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Noise red. Dolby
Output 30 watts (14.75 dBW) per channel
RADIO
Loc/Dst sw. Yes
AFC Yes
Features FM electronic interference noise suppressor; front-to-rear fader

SS-1490 Radio/Tape Player

Price \$239.95
Mounting In dash
Format Cassette
Fast-forward Yes
RADIO
Format Stereo
Loc/Dst sw. Yes

St/Mono sw. Yes
Features Same as Model SS-1280

SS-1280 Radio/Tape Player

Price \$239.95
Mounting In dash
Format 8-track
RADIO
Format Stereo
Loc/Dst sw. Yes
St/Mono sw. Yes
Features Digital time/frequency display; front-to-rear fader

SS-1457 Radio/Tape Player

Price \$199.95
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
RADIO
Format Stereo
Loc/Dst sw. Yes
Features Front-to-rear fader

SS-1260 Radio/Tape Player

Price \$199.95
Mounting In dash
Format 8-track
RADIO
Format Stereo
Loc/Dst sw. Yes
St/Mono sw. Yes
Features Front-to-rear fader

SS-1450 Radio/Tape Player

Price \$139.95
Mounting In dash
Format Cassette
Fast-forward Yes
RADIO
Format Stereo
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes

BM-1312 Tape Player

Price \$49.95
Mounting Under dash
Format Cassette
Fast-forward Yes
Features Side-loading; slide balance control

AP-16 Tape Player

Price \$39.95
Mounting Under dash
Format 8-track
Features High/low tone control; separate slide volume controls for left/right speakers

Models also available

Mach 80 Radio/Tape Player, \$469.95; Mach 40 Radio/Tape Player, \$259.95; SS-1470 Radio/Tape Player, \$199.95; SS-1240 Radio/Tape Player, \$139.95; SS-1430 Radio/Tape Player, \$99.95; SS-1220 Radio/Tape Player, \$99.95

CLARION

Clarion Corp. of America
 5500 Rosecrans Ave.
 Lawndale, Calif. 90260

PE-956B Radio/Tape Player

Price \$460
Dimensions 1 3/4H x 7W x 5 1/4D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Noise red. No
R/P resp. 60 Hz to 10 kHz, ±3 dB
S/N 40 dB (w/o NR)
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 60 Hz to 10 kHz with no more than 10% THD; 6 watts per channel peak

RADIO
Format Stereo
FM sens. 1.5 microvolts for 50 dB quieting
Selectivity -70 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Pushbuttons 2 AM/4 FM
Features DIN nose-piece; digital clock; seek tuning; loudness switch; memory switch; voltage synthesizer tuning; remote amp

PE-751B Radio/Tape Player

Price \$376.95
Dimensions 2H x 7W x 6 1/4D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Dolby
R/P resp. 40 Hz to 15 kHz, ±3 dB (w/o NR)
S/N 50 dB/58 dB (w/NR)
Output 12 watts (10.75 dBW) per channel continuous into 4 or 8 ohms from 40 Hz to 15 kHz with no more than 1% THD; 20 watts per channel peak

RADIO
Format Stereo
FM sens. 1.5 microvolts for 50 dB quieting

Selectivity 80 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. No
Dig. readout No
Pushbuttons Yes
Features Wow and flutter 0.13% (WRMS); line output connection

PE-684A Radio/Tape Player

Price \$280
Dimensions 2H x 7½W x 7D
Mounting Under dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Dolby
R/P resp. 40 Hz to 15 kHz, ±3 dB
S/N 50 dB (w/o NR)/58 dB (w/NR)
Output 10 watts (10 dBW) per channel continuous into 4 or 8 ohms from 40 Hz to 15 kHz with on more than 8% THD

RADIO
Format Stereo
FM sens. 1.5 Microvolts for 50 dB quieting
Selectivity 80 dB
Loc/Dst sw. Yes
AFC Yes
Features Wow and flutter 0.12% (WRMS)

PE-838A Tape Player

Price \$244
Dimensions 2H x 7½W x 6½D
Mounting Under dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Dolby
R/P resp. 40 Hz to 15 kHz, ±3 dB
S/N 50 dB (without noise reduction)/58 dB (with noise reduction)
Output 10 watts (10 dBW) per channel continuous into 4 or 8 ohms from 40 Hz to 15 kHz with no more than 8% THD
Features Wow and flutter 0.12% (WRMS)

PE-453A Tape Player

Price \$160
Dimensions 2H x 7½W x 6½D
Mounting Under dash
Format 8-track
Controls Bass; treble
R/P resp. 40 Hz to 12 kHz, ±3 dB
S/N 50 dB (w/o NR)
Output 10 watts (10 dBW) per channel continuous into 4 or 8 ohms from 40 Hz to 12 kHz with no more than 8% THD
Features Wow and flutter 0.1% (WRMS)

Models also available

PE-958 A Radio/Preamp/Tape Player, \$308; PE-550A Radio/Tape Player, \$280; PE-554A Radio/Tape Player, \$160

COBRA

Dynascan Corp.
6460 West Cortland
Chicago, Ill. 60635

221 GTL Radio/Tape Player

Price \$289.95
Dimensions 2¾H x 7¼W x 5¼D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble

S/N 40 dB (w/NR)
THD 10%
Output 12 watts (10.75 dBW) per channel continuous into 4 ohms

RADIO
Format Stereo
FM sens. 1.9 microvolts for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Pushbuttons 5 AM or 5 FM

107 GTL Radio/Tape Player

Price \$260
Dimensions 2 35/64H x 7 5/64W x 5 5/16D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
THD 10%
Output 14 watts (11.5 dBW) per channel continuous into 4 ohms

RADIO
Format Stereo
FM sens. 1.9 microvolts for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons 5 AM or 5 FM

99 GTL Radio/Tape Player

Price \$189.95
Dimensions 2½H x 7½W x 6¼D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
R/P resp. 100 Hz to 6 kHz, ±3 dB
S/N 40 dB (w/o NR)
S/N ref. lvl. 333 Hz
THD 10%
Output 12 watts (10.75 dBW) per channel continuous into 4 ohms

RADIO
Format Stereo
FM sens. 1.9 microvolts for 50 dB quieting
Selectivity 40 dB
Loc/Dst sw. Yes
Pushbuttons Yes
Features Wow and flutter 1.0%

98 GTL Radio/Tape Player

Price \$179.95
Dimensions 2½H x 7W x 6¼D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
R/P resp. 100 Hz to 8 kHz, ±3 dB
S/N 40 dB (w/o NR)
THD 10%
Output 11 watts (10.5 dBW) per channel continuous into 4 ohms

RADIO
Format Stereo
FM sens. 1.9 microvolts for 50 dB quieting
Selectivity 40 dB
Loc/Dst sw. Yes
AFC No
St/Mono sw. No
Dig. readout No
Pushbuttons Yes
Features Wow and flutter 1.0%

95 GTL Radio/Tape Player

Price \$139.95

Dimensions 2H x 7W x 6¼D
Mounting In dash
Format 8-track
Auto reverse Yes
Fast-forward Yes
Rewind No
R/P resp. 100 Hz to 6 kHz, ±3 dB
S/N 40 (w/o NR)
THD 10%
Output 11 watts (10.5 dBW) per channel continuous into 4 ohms

RADIO
Format Stereo
FM sens. 1.9 microvolts for 50 dB quieting
Selectivity 40 dB
Loc/Dst sw. Yes
AFC No
St/Mono sw. No
Dig. readout No
Pushbuttons None
Features Wow and flutter 1.0%

94 GTL Radio/Tape Player

Price \$99.95
Dimensions 1 23/32H x 6 19/64W x 4 19/32D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
S/N 40 dB (w/NR)
THD 10%
Output 4.5 watts (6.5 dBW) per channel continuous into 4 ohms

RADIO
Format Stereo
FM sens. 1.9 microvolts for 50 dB quieting
Loc/Dst sw. Yes
AFC No
St/Mono sw. No
Dig. readout No
Pushbuttons None

Models also available

222 GTL Radio/Tape Player, \$279.95; 103 GTL Radio/Tape Player, \$219.95; 97 GTL Radio/Tape Player, \$149.95

CONCORD

Westland International
20121 Ventura Blvd.
Woodland Hills, Calif. 91364

HP-350 Radio/Tape Player

Price \$349.95
Dimensions 2½H x 7W x 4¾D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes (locking)
Rewind Yes (locking)
Controls Bass; treble
Noise red. Dolby
R/P resp. 40 Hz to 15 kHz, ±2 dB (with standard tape)
S/N 48 dB (w/o NR)/54 dB (w/NR)
THD 0.3%
THD ref. lvl. 20W per channel
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.3% THD

RADIO
Format Stereo
FM sens. 1 microvolt for 30 dB quieting
Selectivity 55 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. No
Features Wow and flutter 0.08%

HPL-110 Radio/Tape Player

Price \$240
Dimensions 2¾H x 6W 7W 4¾D
Mounting In dash

Format Cassette
Auto reverse No
Fast-forward Yes (locking)
Rewind Yes (locking)
Controls Bass; treble
Noise red. Dolby
R/P resp. 40 Hz to 15 kHz, ± 2 dB (with standard tape)
S/N 48 dB (w/o NR)/54 dB (w/NR)
S/N ref. lvl. 0 dB
THD 0.8%
THD ref. lvl. 5W
Output 5 watts (7 dBW) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 0.8% THD

RADIO
Format Stereo
FM sens. 1.35 microvolts for 50 dB quieting
Selectivity 35 microvolts for 55 dB quieting
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. No
Features Wow and flutter 0.08%; separate bass and treble boost/cut tone controls; line output jacks; Sendust alloy tape head; FET front end; phase-locked loop multiplex circuitry; auto reject and shutoff

Models also available

HPL-505 Radio/Tape Player, \$329.95; HPL-200 Radio/Tape Player, \$279.95

ELF ENTERPRISES

ELF Enterprises, Inc.
 8300 N.E. Underground Drive
 Kansas City, Mo. 64161

FB-1190 Custom G.M. Radio/Tape Player

Price \$250
Dimensions 2 $\frac{3}{4}$ H x 7W x 6D
Mounting In dash
Format 8-track
Controls Bass; treble; midrange
Output 12 watts (10.75 dBW) per channel
RADIO
Format Stereo
Loc/Dst sw. Yes
AFC Yes
Pushbuttons Yes
Features Four-way speaker fade controls

750A Radio/Tape Player

Price \$250
Dimensions 1 $\frac{3}{4}$ H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble; midrange
Output 10 watts (10 dBW) per channel
RADIO
Format Stereo
Pushbuttons Yes
Features Adjustable shafts

EL-1000 Radio/Tape Player

Price \$100
Dimensions 1 $\frac{3}{4}$ H x 6 $\frac{1}{2}$ W x 4 $\frac{3}{4}$ D
Mounting In dash
Format 8-track
Controls Bass; treble; midrange
Output 6 watts (7.75 dBW) per channel
RADIO
Format Stereo
Loc/Dst sw. Yes
AFC Yes

Models also available

FB-1180 Custom Ford Radio/Tape Player, \$250; CUS-35 G&F Custom G.M. & Ford Radio/Tape Player, \$250

FULTRON

Arthur Fulmer
 260 Monroe
 Memphis, Tenn. 38101

16-6800 Radio/Tape Player

Price \$500
Dimensions 2 $\frac{3}{4}$ H x 7W x 5 $\frac{1}{2}$ D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass
Noise red. Yes
Output 14 watts (11.5 dBW) per channel continuous into 4 ohms with no more than 10% THD

RADIO
Format Stereo
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Pushbuttons 7 AM/7 FM
Features Wow and flutter 1.0% (at watts or watts—10.8 dBW—per channel) no control knobs; touch-sensitive electronic controls

16-6500 Radio/Tape Player

Price \$229.95
Dimensions 2 $\frac{3}{4}$ H x 7W x 6D
Mounting In dash
Format 8-track
Controls Balance; fader
Output 5 watts (7 dBW) per channel with no more than 10% THD

RADIO
Format Stereo
Pushbuttons 5 AM/5 FM

16-5100 Radio/Tape Player

Price \$180
Dimensions 1 $\frac{1}{2}$ H x 6 $\frac{3}{4}$ W x 4 $\frac{3}{4}$ D
Mounting In dash
Format Cassette
Auto reverse Yes (locking)
Fast-forward Yes (locking)
Controls Bass; treble; midrange; balance; fader
Output 5 watts (7 dBW) per channel with no more than 10% THD

RADIO
FM sens. 1.5 microvolts for 50 dB quieting
Selectivity 60 dB
Features FM mute

Models also available

16-6600 Radio/Tape Player, \$270; 16-5400 Radio/Tape Player, \$140; 16-5000 Radio/Tape Player, \$109.95; 16-5300 Radio/Tape Player, \$99.95

GRUNDIG

LAS Electronics East, Inc.
 85C Saratoga Blvd.
 Island Park, N.Y. 11558

GCV-2700 A/B Radio/Tape Player

Price \$399
Format Cassette
Auto reverse Yes
Fast-forward Yes
Controls Tone; balance; fader
Output 20 watts (13 dBW) per channel
RADIO

Format Stereo
Loc/Dst sw. Yes
St/Mono sw. Yes
Pushbuttons Optional
Features Electronic search/scan; multiplex

GCM-8200 Radio/Tape Player/Equalizer

Price \$279
Dimensions 2H x 7W x 5 3/10D
Format Cassette
Auto reverse Yes
R/P resp. 40 Hz to 13 kHz, -6 dB
S/N 50 dB
Output 7 watts (8.5 dBW) per channel
RADIO
Loc/Dst sw. Yes
Features Motorglide[®] cassette injection system; 3-band EQ, ± 10 dB; fader control; auto eject; LED tuning indicator; MPX

GCM-8100 Radio/Tape Player

Price \$239
Dimensions 1 7/10H x 7W x 5D
Format Cassette
Auto reverse Yes
Controls Fader
R/P resp. 40 Hz to 13 kHz, -6 dB
S/N 50 dB
Output 7 watts (8.5 dBW) per channel
RADIO
Loc/Dst sw. Yes
Features Motorglide[®] cassette injection system; high/low boost; MPX; FM muting; adjustable shafts; auto eject

Models also available

WKC-2035US Radio/Tape Player, \$316; GCM-4700A/B Radio/Tape Player, \$219; GCM-4600 Radio/Tape Player, \$179; GEM-5000 Radio/Tape Player, \$139

HANDIC

Handic U.S.A., Inc.
 15945 N.W. 57th Ave.
 Hialeah, Fla. 33014

Monte Carlo Radio/Tape Player

Price \$550
Dimensions 2 $\frac{3}{4}$ H x 6W x 7 $\frac{1}{2}$ D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Yes
Output 12 watts (10.75 dBW) per channel continuous into 4 ohms from 70 Hz to 20 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 3 microvolts for 50 dB quieting
Selectivity 70 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Pushbuttons Yes
Features Digital LED frequency readout; preset stations with memory recall; last-station sensory for all levels of volume, balance, and tone control; independent 4-channel audio stages for balance and fader controls; 2-4 speaker system switch; pre/main amp; amp bypass; dimmer switch for frequency readout; "fingertip-pressure" button control

Napoli Radio/Tape Player

Price \$379
Dimensions 1 $\frac{1}{2}$ H x 6 $\frac{3}{4}$ W x 5 $\frac{1}{2}$ D
Mounting In dash

Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Built-in
R/P resp. 50 Hz to 10 kHz, ± 3 dB
S/N 48 dB (w/o NR)
Output 6 watts (7.8 dBW) per channel continuous into 4 ohms from 50 Hz to 10 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 2 microvolts for 50 dB quieting
Selectivity 35 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Features Automatic electronic tuning scan; memory function for automatic and manual tuned stations

EI Paso Radio/Tape Player

Price \$197
Dimensions 1 $\frac{3}{4}$ H x 6 $\frac{1}{2}$ W x 5 $\frac{1}{2}$ D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble
R/P resp. 40 Hz to 12 kHz, ± 3 dB
S/N 55 dB (w/o NR)
S/N ref. lvl. 1 mV
THD 2.0%
Output 8 watts (9.5 dBW) per channel continuous into 4 ohms from 50 Hz to 12 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 1.8 microvolts for 50 dB quieting
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Features FM muting; preamp out-jacks

Models also available

Las Vegas Radio/Tape Player, \$400; Paris Radio/Tape Player, \$230; Joplin Radio/Tape Player, \$112.95; La Scala Tape Player, \$70

JENSEN

Jensen Sound Laboratories
4136 North United Parkway
Schiller Park, Ill. 60176

R-430 Radio/Tape Player

Price \$470
Dimensions 2 $\frac{3}{4}$ H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Dolby
R/P resp. 40 Hz to 14 kHz, ± 3 dB (with CrO₂ tape)
S/N 50 dB (w/o NR)/60 dB (w/NR)
S/N ref. lvl. 1 kHz at 0.5W
THD ref. lvl. 0.5W
Output 30 watts (14.8 dBW) per channel continuous into 4 ohms from 30 Hz to 12 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 2.5 microvolts for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes

AFC Yes
Features Wow and flutter 1%; feather-touch controls; memory; loudness; FM muting; auto mono/stereo switch; end-of-tape alarm

R-420 Radio/Tape Player

Price \$370
Dimensions 2 $\frac{3}{4}$ H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Dolby
R/P resp. 40 Hz to 14 kHz, ± 3 dB (with CrO₂ tape)
S/N 50 dB (w/o NR)/60 dB (w/NR)
S/N ref. lvl. 1 kHz at 0.5W
THD ref. lvl. 1 kHz at 0.5W
Output 18 watts (12.6 dBW) per channel continuous into 4 ohms from 30 Hz to 12 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 2.5 microvolts for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
Features Wow and flutter 1%; feather-touch controls; memory; loudness; FM muting; auto mono/stereo switching; auto end-of-tape alarm

R-410 Radio/Tape Player

Price \$300
Dimensions 2 $\frac{3}{4}$ H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Dolby
R/P resp. 40 Hz to 14kHz, ± 3 dB (with CrO₂ tape)
S/N 50 dB (w/o NR)/60 dB (w/NR)
S/N ref. lvl. 1 kHz at 0.5W
THD ref. lvl. 1 kHz at 0.5W
Output 5 watts (7 dBW) per channel continuous into 4 ohms from 30 Hz to 12 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 2.5 microvolts for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
Features Wow and flutter 1%; feather-touch controls; memory; loudness; FM muting; auto mono/stereo switching; auto end-of-tape alarm

Models also available

R-330 Radio/Tape Player, \$400;
 R-320 Radio/Tape Player, \$300;
 R-310 Radio/Tape Player, \$240

KRACO

Kraco Enterprises, Inc.
505 E. Euclid Ave.
Compton, Calif. 90224

LED-509 Radio/Tape Player

Price \$400
Dimensions 3 $\frac{3}{4}$ H x 7 $\frac{1}{2}$ W x 7 $\frac{1}{4}$ D
Mounting In dash; under dash
Format Cassette
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. No
R/P resp. 30 Hz to 10 kHz, ± 5 dB
S/N 42 dB (w/o NR)
S/N ref. lvl. 0 dB (1 kHz, SRL)
Output 18 watts (12.5 dBW) per channel

continuous into 4 ohms from 20 Hz to 10 kHz with no more than 10% THD

RADIO

Format Stereo
FM sens. 5 microvolts for 50 dB quieting (S/N: 30 dB, ± 400 kHz detune)
Selectivity 35 dB
Loc/Dst sw. No
AFC No
St/Mono sw. No
Dig. readout Yes
Pushbuttons 6 AM/6 FM
Features Automatic scanning; computer program memory

LED-501 Radio/Tape Player

Price \$249.95
Dimensions 2 1/16H x 7 $\frac{1}{2}$ W x 6D
Mounting In dash; under dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
Controls Bass; loudness
Noise red. No
R/P resp. 100 Hz to 10 kHz, ± 10 dB
S/N 50 dB (w/o NR)
S/N ref. lvl. 0 dB (1 kHz)
Output 3.6 watts (5.5 dBW) per channel continuous into 4 ohms from 20 Hz to 10 kHz with no more than 10% THD

RADIO

Format Stereo
FM sens. 2.5 microvolts for 50 dB quieting (30 dB S/N)
Selectivity 45 dB
Loc/Dst sw. No
AFC No
St/Mono sw. Yes
Dig. readout Yes
Features Weather band

KID-588 Radio/Tape Player

Price \$208
Dimensions 2H x 7 $\frac{1}{4}$ W x 5 $\frac{1}{2}$ D
Mounting In dash/under dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls continuous tone control; balance
Noise red. No
R/P resp. 50 Hz to 8 kHz, ± 10 dB.
S/N 45 dB (w/o NR)
S/N ref. lvl. 0 dB (1 kHz)
Output 4 watts (6 dBW) per channel continuous into 8 ohms from 20 Hz to 10 kHz with no more than 10% THD

RADIO

Format Stereo
FM sens. 3 microvolts for 50 dB quieting (S/N: 30 dB)
Selectivity 45 dB
Loc/Dst sw. Yes
AFC No
St/Mono sw. No
Dig. readout No
Features Stereo indicator lamp; antenna trimmer

KID-575 Radio/Tape Player

Price \$166
Dimensions 2 $\frac{3}{4}$ H x 7 $\frac{1}{4}$ W x 6 $\frac{1}{4}$ D
Mounting In dash
Format β -track
Auto reverse No
Fast-forward No
Rewind No
Controls continuous tone control; balance; fader
Noise red. No
R/P resp. 20 Hz to 10 kHz, ± 8 dB
S/N 55 dB (w/o NR)
S/N ref. lvl. 0 dB at 1 kHz SRL



Grundig GCM-8100



Kraco LED-509



Handic Monte Carlo



Marantz CAR-302

Output 4 watts (6 dBW) per channel continuous into 8 ohms from 20 Hz to 10 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 15 dBf for 50 dB quieting (350 kHz detune)
Selectivity 45 dB
Loc/Dst sw. Yes
AFC No
St/Mono sw. No
Dig. readout No
Pushbuttons 5 AM/5 FM
Features Stereo indicator LED

Models also available

LED-508 Radio/Tape Player, \$400; LED-500 Radio/Tape Player, \$249.95; KID-589 Radio/Tape Player, \$207.95; KID-566 Radio/Tape Player, \$145

LAFAYETTE

Lafayette Electronics
 111 Jericho Turnpike
 Syosset, N.Y. 11791

CP-2300 Radio/Tape Player

Price \$99.99
Dimensions 2H x 7 1/8W x 5 1/2D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
Controls Tone; balance
RADIO
Format Stereo
Loc/Dst sw. Yes
AFC No
St/Mono sw. Yes
Dig. readout No
Features Illuminated dial

RK-300 Tape Player

Price \$79.99
Mounting Under dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Balance; tone

CP-200 Tape Player

Price \$39.95
Mounting Under dash
Format 8-track
Controls Balance; tone
RADIO
Features Program indicator lights

Models also available

CP-1200 Radio/Tape Player,

\$89.99; CP-250 Tape Player,
 \$44.99; CP-100 Tape Player,
 \$29.99

MARANTZ

Marantz Co., Inc.
 20525 Nordhoff St.
 Chatsworth, Calif. 91311

CAR-427 Radio/Preamp/Tape Player

Price \$625
Dimensions 2 9/16H x 7 1/8W x 5 1/8D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble; midrange
Noise red. Dolby for FM and Tape
R/P resp. 40 Hz to 15 kHz, ±3 dB
S/N 58 dB (w/NR)/50 dB (w/o NR) (unweighted)
S/N ref. lvl. 250 nWb/m
THD 0.5%
THD ref. lvl. -20 VU
Output 775 mV (preamp)

RADIO
Format Stereo
FM sens. 15 microvolts (35 dBf) for 50 dB quieting (stereo)
Selectivity 65 dB ±400 kHz
Loc/Dst sw. Yes
St/Mono sw. Yes
Pushbuttons 5 AM/5 FM
Features Vacuum fluorescent LED display presets Sendust tape head; metal-tape capability; FM impulse noise blanker; Atmospheric Interference Rejection for noise attenuation; stations may be preset

CAR-400 Radio/Tape Player

Price \$500
Dimensions 2 9/16H x 7 1/8W x 5 1/8D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Dolby for tape
R/P resp. 40 Hz to 13 kHz, ±3 dB
S/N 58 dB (w/NR)/50 dB (w/o NR) (unweighted)
S/N ref. lvl. 250 nWb/m
THD 0.9%
THD ref. lvl. 250 nWb/m
Output 2.5 watts (4 dBW) per channel continuous into 4 ohms from 50 Hz to 20 kHz with no more than 0.9% THD (supply voltage 13.8 VDC)

RADIO
Format Stereo

FM sens. 20 microvolts (37 dBf) for 50 dB quieting (stereo)
Selectivity 65 dB (±400 kHz)
Loc/Dst sw. Yes
St/Mono sw. Yes
Dig. readout Yes
Pushbuttons 6 AM/6 FM
Features Vacuum fluorescent LED display; Atmospheric Interference Rejection for noise attenuation

CAR-302 Radio/Tape Player

Price \$300
Dimensions 2 3/4H x 7 1/8W x 4 3/4D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble; fader
Noise red. Dolby for tape
R/P resp. 40 Hz to 13 kHz, ±3 dB
S/N 58 dB (w/NR)/50 dB (w/o NR) (unweighted)
S/N ref. lvl. 250 nWb/m
THD 0.9%
THD ref. lvl. -20 VU
Output 2.5 watts (4 dBW) per channel continuous into 4 ohms from 50 Hz to 20 kHz with no more than 0.9% THD; preout, 775 mV

RADIO
Format Stereo
FM sens. 50 microvolts (45 dBf) for 50 dB quieting (stereo)
Selectivity 60 dB (±400 kHz)
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons 5 AM or 5 FM presets
Features Adjustable FM muting; Atmospheric Interference Rejection for noise attenuation

CAR-301 Radio/Preamp/Tape Player

Price \$270
Dimensions 2 3/4H x 7 1/8W x 4 3/4D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble; fader
Noise red. Dolby for tape
R/P resp. 40 Hz to 13 kHz, ±3 dB
S/N 58 dB (w/NR), 50 dB (w/o NR) (play only, unweighted)
S/N ref. lvl. 250 nWb/m
THD 0.9%
THD ref. lvl. -20 VU
Output 775 mV (preamp)

RADIO
Format Stereo

FM sens. 20 microvolts (37 dBf) for 50 dB quieting (stereoc)
Selectivity 70 dB (\pm 400 kHz)
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons 5 AM or 5 FM (presets)
Features Adjustable FM muting; Atmospheric Interference Rejection for noise attenuation

Models also available

CAR-420 Radio/Tape Player, \$500; CAR-410 Radio/Tape Player, \$390; CAR-350 Radio/Tape Player, \$240; CAR-300 Radio/Tape Player, \$220

MITSUBISHI

Melco Sales, Inc.

3030 E. Victoria
 Compton, Calif. 90221

RX-2 Radio/Tape Player

Price \$399.95
Dimensions 2 $\frac{3}{8}$ H x 7 $\frac{1}{8}$ W x 6 $\frac{3}{4}$ D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
R/P resp. 50 Hz to 12 kHz, \pm 3 dB
S/N 50 dB (w/o NR)
S/N ref. lvl. 1W
THD 0.5%
THD ref. lvl. 1W
Output 4.5 watts (6.5 dBW) per channel continuous into 4 ohms with no more than 1% THD

RADIO
Format Stereo
FM sens. 2 microvolts for 50 dB quieting
Selectivity 70 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Pushbuttons 6 AM/6 FM
Features Electronic tuner with digital display for frequency and time

CJ-22 Radio

Price \$269.95
Dimensions 1 4/5H x 5 $\frac{1}{2}$ W x 6 1/5D
Format Stereo
FM sens. 3 microvolts for 50 dB quieting
Selectivity 65 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Pushbuttons 5 AM/5 FM
Features Component tuner

RX-69 II Radio/Tape Player

Price \$239.95
Dimensions 2 $\frac{3}{8}$ H x 7 $\frac{3}{8}$ W x 6 $\frac{1}{2}$ D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Midrange
S/N 50 dB (w/o NR)
S/N ref. lvl. 1W
THD 0.7%
THD ref. lvl. 1W
Output 3.5 watts (5.5 dBW) per channel continuous into 4 ohms with no more than 1% THD

RADIO
Format Stereo
FM sens. 3 microvolts for 50 dB quieting
Selectivity 40 dB
Loc/Dst sw. Yes

AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons 4 AM/4 FM

RX-73 Radio/Tape Player

Price \$179.95
Dimensions 2 $\frac{3}{4}$ H x 7 $\frac{1}{2}$ W x 4 $\frac{3}{4}$ D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
S/N 50 dB (w/NR)
S/N ref. lvl. 1W
THD 0.5%
THD ref. lvl. 1W
Output 4.5 watts (6.5 dBW) per channel continuous into 4 ohms with no more than 1% THD

RADIO
Format Stereo
FM sens. 4 microvolts for 50 dB quieting
Selectivity 55 dB
Loc/Dst sw. Yes
St/Mono sw. No
Dig. readout No
Pushbuttons 5 AM/5 FM
Features Low-level outputs utilizing phono plugs

GX-102 Tape Player

Price \$149.95
Dimensions 1 4/5H x 5 $\frac{1}{2}$ W x 6 $\frac{1}{2}$ D
Mounting Under dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
S/N 45 dB (w/o NR)
S/N ref. lvl. 1W
THD 1%
THD ref. lvl. 1W
Output 4 watts (6 dBW) per channel continuous into 4 ohms with no more than 1% THD
Features Hard permalloy head for CrO₂ tape; low-level DIN connector

CJ-20 Radio

Price \$139.95
Dimensions 1 4/5H x 5 $\frac{1}{2}$ W x 6 1/5D
Format Stereo
Selectivity 70 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Features Component tuner

CX-20 Tape Player

Price \$99.95
Dimensions 1 4/5H x 5 $\frac{1}{2}$ W x 6 $\frac{3}{4}$ D
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
S/N 55 dB (w/o NR)
S/N ref. lvl. 1W
Features Component deck

Models also available

RX-79 Radio/Tape Player, \$259.95; RX-7 II Radio/Tape Player, \$249.95; RS-67 Radio/Tape Player, \$229.95; RX-103 Radio/Tape Player, \$159.95; CX-21 Tape Player, \$139.95

MOTOROLA

Motorola, Inc.
 Automotive Products Div.
 1299 E. Algonquin Rd.
 Schaumburg, Ill. 60196

TC-894AX Radio/Tape Player

Price \$389.95
Dimensions 2 11/16H x 7 $\frac{1}{8}$ W x 7 $\frac{1}{8}$ D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes (locking)
Rewind Yes (locking)
Controls Bass; treble
Noise red. Dolby
R/P resp. 100 Hz to 6 kHz, \pm 3 dB
S/N 40 dB (w/o NR)
S/N ref. lvl. SRL (400 Hz)
THD 10%
THD ref. lvl. 12W
Output 12 watts (10.75 dBW) per channel continuous into 4 ohms from 150 Hz to 8 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 7.5 microvolts (IHF) for 50 dB quieting
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons Yes
Features Loudness button; tape equalization switch (ferrite/oxide/CrO₂); high filters; front-to-rear fader; hard permalloy tape head; dual ceramic filters

TC-890AX Radio/Tape Player

Price \$329.95
Dimensions 2 11/16H x 7 $\frac{1}{8}$ W x 5 $\frac{7}{8}$ D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes (locking)
Rewind Yes (locking)
Controls Bass; treble
Noise red. Dolby
R/P resp. 100 Hz to 6 kHz, \pm 3 dB
S/N 40 dB (w/o NR)
S/N ref. lvl. SRL (400 Hz)
THD 10%
THD ref. lvl. 3.5 W
Output 3.5 watts (5.5 dBW) per channel continuous into 4 ohms from 150 Hz to 8 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 7.5 microvolts (IHF) for 50 dB quieting
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons Yes
Features Wow and flutter better than 0.25% (WRMS)

TC-888AX Radio/Tape Player

Price \$239.95
Dimensions 2 $\frac{3}{8}$ H x 7 1/16W x 5 5/16D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes (locking)
Rewind Yes (locking)
Controls Tone/balance
Noise red. No
R/P resp. 100 Hz to 6 kHz, \pm 3 dB
S/N 40 dB (w/o NR)
THD 10%
THD ref. lvl. 3.5W
Output 3.5 watts (5.5 dBW) per channel continuous into 4 ohms from 150 Hz to 8 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 7.5 microvolts (IHF) for 50 dB quieting
Loc/Dst sw. Yes
AFC Yes

St/Mono sw. Yes
Dig. readout No
Pushbuttons 5 AM/5 FM
Features Wow and flutter 0.25%; AutoCue for tape selection positioning; dual ceramic filters

TF-882AX Radio/Tape Player

Price \$209.95
Dimensions 2¼H x 7 1/16W x 5 5/16D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Bass; treble; balance
R/P resp. 100 Hz to 6 kHz, ±3 dB
S/N 40 dB (w/o NR)
S/N ref. lvl. SRL (400 Hz)
THD 10%
THD ref. lvl. 12W
Output 12 watts (10.75 dBW) per channel continuous into 4 ohms from 150 Hz to 8 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 7.5 microvolts (IHF) for 50 dB quieting
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons Yes
Features Wow and flutter 0.25%; front-to-rear fader; loudness button; adjustable shafts; dual ceramic filters

TC-883AX Radio/Tape Player

Price \$184.95
Dimensions 2¾H x 7 1/16W x 5 5/16D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes (locking)
Rewind Yes (locking)
Controls Tone/balance
Noise red. No
R/P resp. 100 Hz to 6 kHz, ±3 dB
S/N 40 dB (w/o NR)
S/N ref. lvl. SRL (400 Hz)
THD 10%
THD ref. lvl. 3.5W
Output 3.5 watts (5.5 dBW) per channel continuous into 4 ohms from 150 Hz to 8 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 7.5 microvolts (IHF) for 50 dB quieting
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons Yes
Features Wow and flutter 0.25%; dual ceramic filters; hard permalloy tape head; tape eject

TC-344S Tape Player

Price \$150
Dimensions 6½H x 2¾W x 8¾D
Mounting Under dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. No
S/N 40 dB (w/o NR)
THD ref. lvl. 12W
Output 12 watts (10.8 dBW) per channel continuous into 4 ohms with no more than 10% THD

RADIO
Format Stereo
Features Wow and Flutter 1.0%; power-level meter; loudness; high filter

TC-881AX Radio/Tape Player

Price \$140
Dimensions 1¾H x 7 1/16W x 4¾D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes (locking)
Rewind Yes (locking)
Controls Tone/balance
Noise red. No
R/P resp. 100 Hz to 6 kHz, ±3 dB
S/N 40 dB (without noise reduction)
S/N ref. lvl. SRL (400 Hz)
THD 10%
THD ref. lvl. 3.5W
Output 3.5 watts (5.5 dBW) per channel continuous into 4 ohms from 150 Hz to 8 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 7.5 Microvolts for 50 dB quieting
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Features Wow and flutter 0.25%; auto eject; dual ceramic filters; auto eject

Models also available

TC-887AX Radio/Tape Player, \$230; TC-885AX Radio/Tape Player, \$199.95; TF-880AX Radio/Tape Player, \$164.95

PIONEER

Pioneer Electronics of America
1925 E. Dominquez St.
Long Beach, Calif. 90810

KE-5000 Radio/Tape Player

Price \$419.95
Dimensions 3H x 7½W x 5¾D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Noise red. Dolby on FM and cassette
Output 4 watts (6 dBW) per channel from 30 Hz to 12 kHz

RADIO
Loc/Dst sw. Yes
St/Mono sw. Yes
Pushbuttons 5 AM/5 FM
Features Supertuner; electronic PLL synthesizer tuning; digital readout for frequency and time; built-in clock with clock button; scan tuning; seek tuning; tape selector; fader control; auto replay after rewind

KE-3000 Radio/Tape Player

Price \$359.95
Dimensions 2H x 7½W x 5¾D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Noise red. PNS noise suppression
Output 4 watts (6 dBW) per channel from 30 Hz to 12 kHz

RADIO
Format Stereo
Loc/Dst sw. Yes
St/Mono sw. Yes
Pushbuttons 5 AM/5 FM
Features Supertuner; electronic PLL synthesizer tuning; digital readout; scan tuning; muting switch; fader control; tape play indicator; auto replay after rewind

KE-2002 Radio/Tape Player

Price \$319.95
Dimensions 2H x 7½W x 5¾D
Mounting In dash
Format Cassette
Fast-forward Yes
Rewind Yes
Controls Center-click balance control
Noise red. PNS noise suppression for tape and FM
Output 5 watts (7 dBW) per channel from 30 Hz to 12 kHz

RADIO
Format Stereo
Loc/Dst sw. Yes
St/Mono sw. Yes
Pushbuttons 5 AM/5 FM
Features Supertuner; phase-locked loop multiplex demodulator; dual-gate FET front end; AM/FM LED indicator; electronic LED station indicator; muting switch; auto replay after rewind; designed for European cars

KPX-9000 Radio/Tape Player

Price \$299.95
Dimensions 2H x 7½W x 6D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble; balance
R/P resp. 30 Hz to 15 kHz

RADIO
Format Stereo
St/Mono sw. Yes
Features Supertuner; auto replay after rewind; electronically governed motor; requires separate power amp; wow and flutter less than 0.13%

KP-8500 Radio/Tape Player

Price \$279.95
Dimensions 3H x 7½W x 5¾D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Tone; balance
Noise red. Dolby for tape and FM
Output 5 watts (7 dBW) per channel from 30 Hz to 12 kHz

RADIO
Format Stereo
Loc/Dst sw. Yes
St/Mono sw. Yes
Pushbuttons 5 AM/5 FM
Features Supertuner; auto muting on FM stereo; auto replay after rewind; AM/FM

KP-8005 Radio/Tape Player

Price \$249.95
Dimensions 2H x 7½W x 5¾D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Tone; balance
Output 4 watts (6 dBW) per channel from 30 Hz to 12 kHz

RADIO
Format Stereo
St/Mono sw. Yes
Pushbuttons 5 AM/5 FM
Features Supertuner; muting switch; auto replay

KP-707G Tape Player

Price \$249.95
Dimensions 2H x 6W x 6¾D
Mounting Under dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble; balance (with de-

tents)
Noise red. Dolby
Features Requires separate power amp; feather-touch tape controls; ATSC (auto tape slack canceller); ferrite head; tape selector (CrO₂); electronically governed motor

TP-9006 Radio/Tape Player

Price \$239.95
Dimensions 3¼H x 7½W x 6¾D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Bass; treble
Output 4 watts (6 dBW) per channel
RADIO
Format Stereo
Loc/Dst sw. Yes
Pushbuttons 5 AM/5 FM
Features Supertuner; for GM cars; adjustable shafts; muting; phase-locked loop multiplex demodulator; FET front end; radio dial in 8-track door

TP-9004 Radio/Tape Player

Price \$239.95
Dimensions 3¼H x 7½W x 6¾D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Bass; treble
Output 4 watts (6 dBW) per channel
RADIO
Format Stereo
Loc/Dst sw. Yes
Pushbuttons 5 AM/5 FM
Features Supertuner; for Chrysler products; adjustable shafts; muting; phase-locked multiplex demodulator; FET front end; radio dial in 8-track door

KP-5005 Radio/Tape Player

Price \$229.95
Dimensions 2H x 7½W x 5¼D
Mounting In dash
Format Cassette
Fast-forward Yes
Rewind Yes
Controls Tone; balance
Output 4 watts (6 dBW) per channel from 30 Hz to 12 kHz
RADIO
Format Stereo
St/Mono sw. Yes
Features Supertuner; manual tuning; muting switch; auto replay

KP-500 Radio/Tape Player

Price \$219.95
Dimensions 3H x 7½W x 7½D
Mounting Under dash
Format Cassette
Controls Bass; treble
Output 4 watts (6 dBW) per channel from 40 Hz to 10 kHz
RADIO
Format Stereo
St/Mono sw. Yes
Features Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting

KPX-600 Radio/Tape Player

Price \$219.95
Dimensions 2¾H x 7½W x 6¾D
Mounting Under dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble; balance

R/P resp. 30 Hz to 15 kHz

RADIO

Format Stereo
St/Mono sw. Yes
Features Requires separate power amp; supertuner; phase-locked loop multiplex demodulator; FET front end; loudness control; auto replay after rewind; electronically governed motor

TP-900 Radio/Tape Player

Price \$199.95
Dimensions 3H x 7½W x 7½D
Mounting Under dash
Format 8-track
Auto reverse No
Fast-forward Yes
Rewind No
Controls Bass; treble; balance
Output 4 watts (6 dBW) per channel
RADIO
Format Stereo
St/Mono sw. Yes
Features Supertuner; phase lock multiplex demodulator; FET front end; loudness switch; muting

K-77G Tape Player

Price \$179.95
Dimensions 2H x 6W x 6¾D
Mounting Under dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble (with detents); balance and volume control with center click

R/P resp. 30 Hz to 15 kHz

Features Requires separate power amp; ATSC (auto tape slack canceller); tape selector (CrO₂); ATT (audio attenuator); tape direction indicator; electronically governed motor

TP-7007 Radio/Tape Player

Price \$179.95
Dimensions 2H x 7½W x 6¼D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Balance; tone
Output 4 watts (6 dBW) per channel from 40 Hz to 10 kHz

RADIO

Format Stereo
St/Mono sw. Yes
Pushbuttons 5 AM/5 FM (preset)
Features AM/FM stereo track indicators; adjustable shafts; auto and manual program changers; FM mono/stereo switch; IC amp; ceramic IF filter

KP-250 Radio/Tape Player

Price \$164.95
Dimensions 2H x 6½W x 6¾D
Mounting Under dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Balance; tone; volume
Output 4 watts (6 dBW) per channel from 40 Hz to 10 kHz

RADIO

Format Stereo
St/Mono sw. Yes
Features Auto eject

KP-575 Tape Player

Price \$159.95
Dimensions 2H x 6½W x 4 13/16D
Mounting Under dash

Format Cassette

Auto reverse

Yes
Fast-forward Yes
Rewind Yes
Controls Tone; balance
Output 5 watts (7 dBW) per channel from 30 Hz to 14 kHz
Features ATSC (automatic tape slack canceller); loudness control; tape direction; indicator

GX-4040 Radio

Price \$149.95
Dimensions 2H x 7½W x 5¼D
Mounting In dash
Format Stereo
Loc/Dst sw. Yes
Pushbuttons 2 AM/3 FM
Features Supertuner; phase-locked looped multiplex demodulator; muting switch

TP-6006 Radio/Tape Player

Price \$149.95
Dimensions 2H x 7½W x 6¼D
Mounting In dash
Format 8-track
Controls Balance; tone
RADIO
Format Stereo
Loc/Dst sw. Yes
St/Mono sw. Yes
Features Auto and manual program change; one-switch-mode control; integrated circuits for audio and IF; adjustable shafts

KP-373 Tape Player

Price \$134.95
Dimensions 2H x 4¾W x 6¼D
Mounting Under dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Tone; balance
Output 5 watts (7 dBW) per channel from 30 Hz to 12 kHz
Features Slide and volume control; auto replay; auto and manual eject; loudness switch; slide volume control; tape play indicator

TP-727 Tape Player

Price \$119.95
Dimensions 2¾H x 6½W x 6½D
Mounting Under dash
Format 8-track
Auto reverse No
Fast-forward Yes
Rewind No
Controls Bass; treble
Output 4 watts (6 dBW) per channel
Features Loudness switch; auto and manual; program change; repeat

TP-200 Radio/Tape Player

Price \$119.95
Dimensions 2½H x 7½W x 7¾D
Mounting Under dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Output 4 watts (6 dBW) per channel
RADIO
Format Stereo
Loc/Dst sw. No
AFC No
St/Mono sw. Yes
Dig. readout No
Features Illuminated track indicator; FET and IC front end; IF amplifier

TP-252 Tape Player

Price \$69.95
Mounting Under dash

Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Tone; balance
Features Automatic and manual track change; all IC amplifier; slide controls

Models also available

KPX-9500 Radio/Tape Player, \$329.95; KE-2000 Radio/Tape Player, \$289.95; KP-8000 Radio/Tape Player, \$249.95; TP-9005 Radio/Tape Player, \$239.95; KP-3500 Radio/Tape Player, \$229.95; KP-4000 Radio/Tape Player, \$199.95; KP-88G Tape Player, \$179.95; GX-5050-Radio, \$159.95; KP-66G Tape Player, \$149.95; KP-292 Tape Player, \$129.95; KP-272 Tape Player, \$109.95

REALISTIC

Radio Shack

1400 One Tandy Center
 Ft. Worth, Tex. 76102

12-1887 Hi Power Radio/Tape Player

Price \$179.95
Dimensions 2 $\frac{3}{8}$ H x 7W x 6D
Mounting In dash; under dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Bass; treble
R/P resp. 75 Hz to 10 kHz, ± 3 dB
S/N 54 dB (w/o NR)
S/N ref. lvl. 1W
THD 10%
THD ref. lvl. 15W
RADIO
Format Stereo
FM sens. 3.5 microvolts for 50 dB quieting
Selectivity 57 dB
Loc/Dst sw. No
AFC Yes
St/Mono sw. Yes

12-1885 Radio/Tape Player

Price \$99.95
Dimensions 2H x 7W x 4 $\frac{3}{4}$ D
Mounting In dash; under dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Tone
R/P resp. 60 Hz to 10 kHz, ± 2 dB
S/N 55 dB (w/NR)
S/N ref. lvl. 1W
THD 10%
THD ref. lvl. 5W
RADIO
Format Stereo
FM sens. 3.5 microvolts for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. No
AFC Yes
St/Mono sw. Yes
Dig. readout No

12-1884 Radio/Tape Player

Price \$99.95
Dimensions 1 $\frac{1}{8}$ H x 7 $\frac{3}{16}$ W x 5 $\frac{1}{2}$ D
Mounting In dash; under dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Tone
R/P resp. 60 Hz to 10 kHz, ± 3 dB
S/N 55 dB (w/o NR)
S/N ref. lvl. 1W
THD 10%

THD ref. lvl. 5W
RADIO
Format Stereo
FM sens. 3.5 microvolts for 50 dB quieting
Selectivity 47 dB
Loc/Dst sw. No
AFC Yes
St/Mono sw. Yes
Dig. readout No
Features Auto stop

12-1809 Hi Power Tape Player

Price \$99.95
Dimensions 1 $\frac{3}{4}$ H x 7W x 6 $\frac{1}{2}$ D
Mounting Under dash
Format Cassette
Auto reverse No
Rewind Yes
Controls Bass; treble
R/P resp. 50 Hz to 14 kHz, ± 2 dB
S/N 55 dB (w/o NR)
THD 10%
THD ref. lvl. 12W
RADIO
Features Loudness compensation; auto eject, headphone jack

Models also available

12-1886 Hi Power Radio/Tape Player, \$179.95; 12-1810 Hi Power Tape Player, \$99.95

ROADSTAR

Roadstar Corp. of America
 5312 Production Dr.
 Huntington Beach, Calif.

RS-3300 Radio/Tape Player

Price \$349.95
Dimensions 1 $\frac{3}{4}$ H x 7W x 5 $\frac{1}{2}$ D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Continuous tone control
S/N 50 dB (w/o NR)
Output 5 watts (7 dBW) per channel
RADIO
Format Stereo
FM sens. 1.5 microvolts (30 dB S/N)
Selectivity 30 microvolts (20 dB S/N)
Loc/Dst sw. Yes
Features Wow and flutter 1.5%; auto-reverse; IF ceramic filter; muting; digital readout; Sendust head

RS-3000DV Radio/Tape Player

Price \$329.95
Dimensions 2H x 7W x 4 $\frac{3}{4}$ D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
Output 7 watts (8.5 dBW) per channel
RADIO
Format Stereo
FM sens. 1.5 microvolts selectivity (30 dB S/N)
Loc/Dst sw. Yes
AFC Yes
Pushbuttons Yes
Features Wow and flutter 3%

RS-1500 Radio/Tape Player

Price \$139.95
Dimensions 2H x 7 $\frac{1}{2}$ W x 5D
Mounting Under dash
Auto reverse Yes
Fast-forward Yes (locking)
Rewind Yes (locking)
R/P resp. 50 Hz to 12 kHz
S/N 45 dB (w/o NR)
Output 4 watts (6 dBW) per channel continuous into 4 or 8 ohms

RADIO
Format Stereo
Features Wow and flutter 1%; auto-reverse; jam-proof mechanism; mounts and plays in any position

ROYAL SOUND

Royal Sound Co., Inc.
 248 Buffalo Ave.
 Freeport, N.Y. 11520

RS-2510 Radio/Tape Player

Price \$400
Dimensions 1 $\frac{3}{4}$ H x 7W x 5 23/32D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes (locking)
Rewind Yes (locking)
Controls Bass; treble
Noise red. dbx
R/P resp. 30 Hz to 12.5 kHz, ± 3 dB
S/N 65 dB (w/o NR)
THD 1%
THD ref. lvl. 9W (rms)
Output 8 watts (9 dBW) per channel continuous into 4 ohms with no more than 1% THD

RADIO

Format Stereo
FM sens. 1.4 microvolts for 30 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes (defeatable)
St/Mono sw. Yes
Dig. readout Yes
Features High and low impedance; preamp out; FM muting; loudness; AFC defeat

RS-2010N Radio/Tape Player

Price \$200
Dimensions 1 $\frac{3}{4}$ H x 7W x 4 11/12D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
Controls Bass
Noise red. dbx
R/P resp. 35 Hz to 10.5 kHz
S/N 50 dB (w/o NR)
THD 1%
THD ref. lvl. 4W (rms)
Output 5 watts (7 dBW) per channel continuous into 4 ohms from 35 Hz to 10.5 kHz with no more than 3% THD

RADIO

Format Stereo
FM sens. 1.9 microvolts for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Pushbuttons No
Features Outputs for 3 speakers; high and low impedance; preamp out

SANYO

Sanyo Electric, Inc.
 1200 West Artesia Blvd.
 Compton, Calif. 90220

FT-1498 Radio/Tape Player

Price \$349.95
Dimensions 3H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Noise red. Dolby
S/N 62 dB (w/o NR)
THD ref. lvl. 11W (10.5 dBW) woofer; 2.5W (3.8

Output 17 watts (12.3 dBW) per channel
RADIO
Format Stereo
FM sens. 1.5 microvolts for 14.8 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
Pushbuttons 10 (with memory)
Features Wow and flutter 1%; Sendust alloy heads; digital tuning; biamplified power section; quartz digital display clock/calendar (works with ignition off); automatic FM muting; "Head" switch for all tapes

FT-2400 Radio/Tape Player

Price \$330
Dimensions 2H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Dolby
R/P resp. 40 Hz to 12 kHz, ± 3 dB
S/N 62 dB (w/o NR)
RADIO
Format Stereo
FM sens. 1.5 microvolts for 14.8 dB quieting
Selectivity 65 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Pushbuttons Yes
Features Includes preamp; designed for use with outboard power amplifier; less than 0.07% wow and flutter; digital clock/calendar; Sendust alloy heads; full auto reverse at either end of tape

FT-1670 Radio/Tape Player

Price \$299.95
Dimensions 3H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
R/P resp. 30 Hz to 16 kHz, ± 3 dB
S/N 45 dB (w/o NR)
Output 14 watts (11.5 dBW) per channel continuous into 4 or 8 ohms from 30 Hz to 16 kHz with no more than 3% THD

RADIO
Format Stereo
FM sens. 1 microvolt for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
Pushbuttons Yes (electronic touch-tune)
Features Remote scanner; LED digital display; woofer and tweeter level controls

FT-690 Radio/Tape Player

Price \$249.95
Dimensions 3H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
S/N 45 dB (w/o NR)
Output 4 watts (6 dBW) per channel continuous into 4 or 8 ohms from 50 Hz to 12 kHz with no more than 3% THD

RADIO
Format Stereo
FM sens. 1 microvolt for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
Pushbuttons Yes (electronic soft-touch with memory)

Features Auto eject; separate woofer and tweeter controls; LED digital display; remote scanner

FT-1490-2 Radio/Tape Player

Price \$239.95
Dimensions 3H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Dolby
R/P resp. 40 Hz to 19 kHz, ± 3 dB (with metal tape)
S/N 62 dB (w/NR)
THD 1%
Output 11 watts (10.5 dBW) per channel continuous into 4 or 8 ohms from 40 Hz to 19 kHz with no more than 1% THD (woofer)

RADIO
Format Stereo
FM sens. 2 microvolts for 17.3 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
Features Biamp capability; PLL MPX decoder; line level output jack for external amp; head switch for CrO₂, FeCr, or metal tape

FT-646 Radio/Tape Player

Price \$219.95
Dimensions 2H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Noise red. Dolby
S/N 62 dB (w/o NR)
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 40 Hz to 19 kHz with no more than 0.08% THD

RADIO
Format Stereo
FM sens. 1.5 microvolts for 14.8 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
Features Sendust alloy heads; RCA line output jacks for plugging in outboard power amplifier; FM tuner with dual gate MOSFET FET front-end and FET mixer stages; ceramic IF filters

FT-489 Radio/Tape Player

Price \$189.95
Dimensions 2H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
S/N 45 dB (w/o NR)
Output 4 watts (6 dBW) per channel continuous into 4 or 8 ohms from 50 Hz to 12 kHz with no more than 3% THD

RADIO
Format Stereo
FM sens. 1 microvolt for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
Pushbuttons Yes
Features Wow and flutter 3%

FT-645 Radio/Tape Player

Price \$179.95
Dimensions 2H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse Yes

Fast-forward Yes
Rewind Yes
Controls Tone; balance; fader
S/N 50 dB (w/NR)
THD 5%
Output 4.5 watts (6.5 dBW) per channel continuous into 4 ohms from 80 Hz to 22 kHz with no more than 5% THD

RADIO
Selectivity 50 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes, with clock
Features Tape play and FM stereo LED indicator; AM/FM pushbutton selector

FT-874 Radio/Tape Player

Price \$160
Dimensions 3H x 7W x 6D
Mounting In dash
Format 8-track
Fast-forward Yes
Rewind Yes
Controls Bass; treble
R/P resp. 50 Hz to 10 kHz, ± 3 dB
S/N 45 dB (w/o NR)
Output 8 watts (9 dBW) per channel
RADIO
Format Stereo
FM sens. 1.5 microvolts for 50 dB quieting
Selectivity 55 dB
Loc/Dst sw. No
AFC Yes
Pushbuttons Yes
Features Wow and flutter 3%

FT-1405 Radio/Tape Player

Price \$160
Dimensions 2½H x 6¾W x 6¾D
Mounting Under dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
R/P resp. 30 Hz to 16 kHz, ± 3 dB
S/N 45 dB (w/o NR)
Output 12 watts (10.75 dBW) per channel (woofer); 2 watts (3 dBW) per channel (tweeter)

RADIO
Format Stereo FM only
FM sens. 1.5 microvolts for 50 dB quieting
Selectivity 55 dB
Loc/Dst sw. Yes
AFC Yes
Features Separate controls for woofer and tweeter for use in biamp connection

FT-1400 Radio/Tape Player

Price \$139.95
Dimensions 2½H x 7W x 7D
Mounting Under dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
THD ref. lvl. Woofer, 14W per channel; tweeter 2.7W per channel
Output 33 watts (15.25 dBW) per channel continuous into 4 or 8 ohms from 30 Hz to 16 kHz with no more than 5% THD

RADIO
Format Stereo
Loc/Dst sw. No
St/Mono sw. Yes
Dig. readout No
Features Built-in biamp; auto reverse; slide in/slide out bracket; master volume control

FT-644 Radio/Tape Player

Price \$139.95



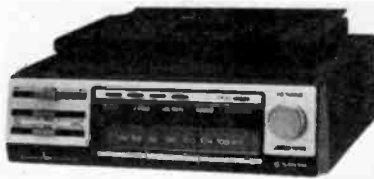
Motorola TC-890AX



Pioneer KP-8500



Realistic 12-1887



Sanyo FT-9500



Ten GL-7851

Dimensions 2H x 7W x 6D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes (locking)
Rewind Yes (locking)
Controls Balance; tone
R/P resp. 50 Hz to 12 kHz
S/N 55 dB (w/NR)
Output 4.5 watts (6.5 dBW) per channel continuous into 4 ohms from 80 Hz to 22 kHz

RADIO
Format Stereo
Selectivity 50 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons FM
Features Full auto program repeat

FT-9500 Radio/Tape Player

Price \$120
Dimensions 2 1/4 H x 8W x 7D
Mounting Under dash
Format 8-track
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass (slide)
R/P resp. 30 Hz to 12 kHz
S/N 46 dB (w/NR)
Output 11 watts (10.5 dBW) per channel continuous into 4 ohms from 80 Hz to 25 kHz

RADIO
Format Stereo
FM sens. 2.5 microvolts for 19.2 dB quieting
Selectivity 50 dB
Loc/Dst sw. Yes
AFC Yes
Features Wow and flutter 5%

FT-940 Radio/Tape Player

Price \$120
Dimensions 2H x 7W x 5D
Mounting In dash
Format 8-track
Auto reverse No
S/N 50 dB (w/o NR)
Output 5 watts (7 dBW) per channel continuous into 4 ohms from 70 Hz to 20 kHz with no more than 5% THD

RADIO
Format Stereo
FM sens. 3 microvolts for 20.8 dB quieting
Selectivity 45 dB
Loc/Dst sw. Yes
AFC Yes
Features Wow and flutter 1.0%

\$329.95; FT-1495 Radio/Tape Player, \$239.95; FT-1877 Radio/Tape Player, \$199.95; FT-418 Radio/Tape Player, \$169.95; FT-482 Radio/Tape Player, \$159.95; FT-642 Radio/Tape Player, \$129.95; FT-407 Radio/Tape Player, \$79.95

SHARP Sharp Electronics Corp. 10 Keystone Place Paramus, N.J. 07652

RG-3550 Radio/Tape Player

Price \$219
Dimensions 2H x 9 1/5W x 5 1/2D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
R/P resp. 50Hz to 10 kHz, -6 dB
S/N 50 dB (w/o NR)
S/N ref. lvl. 250 nWb/m
Output 5 watts (7 dBW) per channel continuous into 4 ohms with no more than 10% THD

RADIO
Format Stereo
FM sens. 3 microvolts for 30 dB quieting
Loc/Dst sw. Yes
AFC No
St/Mono sw. No
Dig. readout No
Features APSS (auto program search system); fader control

RG-3400 Radio/Tape Player

Price \$189
Dimensions 2H x 9 1/5W x 5 1/2D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind No
R/P resp. 50 Hz to 10 kHz, -6 dB
S/N 50 dB (w/o NR)
S/N ref. lvl. 250 nWb/m
Output 5 watts (7 dBW) per channel continuous into 4 ohms with no more than 10% THD

RADIO
Format Stereo
FM sens. 3 microvolts for 30 dB quieting
Loc/Dst sw. Yes
AFC No
St/Mono sw. No
Dig. readout No
Features Fader control

RG-3200 Radio/Tape Player

Price \$169

Dimensions 2H x 9 1/5W x 5 1/2D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Fader
R/P resp. 50 Hz to 10 kHz, -6 dB
Output 5 watts (7 dBW) per channel continuous into 4 ohms with no more than 10% THD

RADIO
Format Stereo
FM sens. 3 microvolts for 30 dB quieting
Loc/Dst sw. Yes
AFC No
St/Mono sw. No
Dig. readout No
Features Auto eject

SPARKOMATIC Sparkomatic Rte. 6 and 209 Mulford, Pa. 18337

SR-3400 Radio/Tape Player

Price \$299.95
Dimensions 1 3/4 H x 7W x 5 1/2D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble
S/N 40 dB (w/o NR)
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD

RADIO
Format Stereo
FM sens. 1 microvolt for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Features Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut; clock with elapsed time and date; digital display

SR-2400 Radio/Tape Player

Price \$269.95
Dimensions 1 3/4 H x 7W x 5 1/2D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Bass; treble
S/N 40 dB (w/o NR)
Output 20 watts (13 dBW) per channel

Models also available

FT-2200 Radio/Tape Player,

continuous into 4 ohms from 40 Hz to 15 kHz with no more than 1% THD

RADIO

Format Stereo
FM sens. 1 microvolt for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Features Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut; clock with elapsed time and date; digital display

SR-340 Radio/Tape Player

Price \$259.95
Dimensions 1 $\frac{3}{4}$ H x 7W x 5 $\frac{1}{2}$ D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble
S/N 40 dB (w/o NR)
Output 5 watts (7 dBW) per channel continuous into 4 ohms from 40 Hz to 15 kHz with no more than 1% THD

RADIO

Format Stereo
FM sens. 1 microvolt for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Features Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut; clock with elapsed time and date; digital display

SR-240 Radio/Tape Player

Price \$239.95
Dimensions 1 $\frac{3}{4}$ H x 7W x 5 $\frac{1}{2}$ D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Bass; treble
S/N 40 dB (w/o NR)
Output 5 watts (7 dBW) per channel continuous into 4 ohms from 40 Hz to 15 kHz with no more than 1% THD

RADIO

Format Stereo
FM sens. 1 microvolt for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Features Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut; clock with elapsed time and date; digital display

SR-330 Auto Reverse Radio/Tape Player

Price \$229.95
Dimensions 1 $\frac{3}{4}$ H x 7W x 5 $\frac{1}{2}$ D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
S/N 40 dB (w/o NR)
Output 5 watts (7 dBW) per channel continuous into 4 ohms from 40 Hz to 15 kHz with no more than 1% THD

RADIO

Format Stereo
FM sens. 1 microvolt for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes

AFC Yes
St/Mono sw. Yes
Dig. readout No
Features Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut

SR-2100 Radio/Tape Player

Price \$219.95
Dimensions 1 $\frac{3}{4}$ H x 7W x 5 $\frac{1}{2}$ D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Bass; treble
S/N 40 dB (w/o NR)
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD

RADIO

Format Stereo
FM sens. 1 microvolt for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Features Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut

SR-310 Radio/Tape Player

Price \$189.95
Dimensions 1 $\frac{3}{4}$ H x 7W x 5 $\frac{1}{2}$ D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
Controls Bass; treble
S/N 40 dB (w/o NR)
Output 5 watts (7 dBW) per channel continuous into 4 ohms from 40 Hz to 15 kHz with no more than 1% THD

RADIO

Format Stereo
FM sens. 1 microvolt for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Features Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut

SR-302 Radio/Tape Player

Price \$125
Dimensions 1 $\frac{3}{4}$ H x 6 11/16W x 4 13/16D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
Controls Tone
S/N 38 dB (w/o NR)
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 60 Hz to 12 kHz with no more than 1% THD

RADIO

Format Stereo
FM sens. 7 microvolts for 50 dB quieting
Selectivity 55 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons 5 AM or 5 FM
Features Separate balance and fader

SR-202 Radio/Tape Player

Price \$125
Dimensions 1 $\frac{3}{4}$ H x 6 11/16W x 4 13/16D
Mounting In dash
Format 8-track

Auto reverse No
Fast-forward No
Rewind No
Controls Tone
S/N 38 dB (w/o NR)
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 60 Hz to 12 kHz with no more than 1% THD

RADIO

Format Stereo
FM sens. 7 microvolts for 50 dB quieting
Selectivity 55 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons 5 AM/5 FM
Features Separate balance and fader

SR-201 Radio/Tape Player

Price \$119.95
Dimensions 1 $\frac{3}{4}$ H x 6 11/16W x 4 13/16D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Tone
S/N 38 dB (w/o NR)
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 60 Hz to 12 kHz with no more than 1% THD

RADIO

Format Stereo
FM sens. 7 microvolts for 50 dB quieting
Selectivity 55 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Features Separate balance and fader; FM muting switch

SR-300 Radio/Tape Player

Price \$89.95
Dimensions 1 $\frac{3}{4}$ H x 7W x 4 11/16D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
Controls Tone
S/N 35 dB (w/o NR)
Output 45 watts (6.5 dBW) per channel continuous into 8 ohms from 75 Hz to 10 kHz with no more than 10% THD

RADIO

Format Stereo
FM sens. 8 microvolts for 50 dB quieting
Selectivity 50 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. No
Dig. readout No

SR-120 Radio

Price \$79.95
Dimensions 1 $\frac{3}{4}$ H x 7W x 4 11/16D
Mounting In dash
Controls Tone
Output 45 watts (6.5 dBW) per channel continuous into 8 ohms from 75 Hz to 10 kHz with no more than 10% THD
Format Stereo
FM sens. 8 microvolts for 50 dB quieting
Selectivity 50 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout No
Pushbuttons 5 AM or 5 FM (number of each)

SS-100 Radio/Tape Player

Price \$29.95
Dimensions 2 $\frac{1}{4}$ H x 5 $\frac{1}{2}$ W x 7 $\frac{3}{4}$ D

Mounting Under dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Tone
S/N 30 dB (w/o NR)
Output 3 watts (4.75 dBW) per channel continuous into 8 ohms from 100 Hz to 8 kHz with no more than 10% THD

RADIO
Features Slide controls for volume, balance, tone

Models also available

SR-3300 Auto Reverse Radio/Tape Player, \$259.95; SR-3100 Radio/Tape Player, \$229.95; SR-210 Radio/Tape Player, \$179.95; SR-301 Radio/Tape Player, \$119.95; SR-200 Radio/Tape Player, \$89.95; SS-200 Radio/Tape Player, \$29.95

TEN

Fujitsu Ten Corp. of America
19281 Pacific Gateway Drive
Torrance, Calif. 90502

GP-7881 Radio/Tape Player

Price \$299.95
Dimensions 2 25/32H x 7 1/16W x 5 5/16D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Bass; treble
Noise red. Dolby
R/P resp. 40 Hz to 14 kHz, ± 6 dB
S/N 65 dB (w/NR)/55 dB (w/o NR)
S/N ref. lvl. 1W
THD 0.4%
THD ref. lvl. 0.5W
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 40 Hz to 14 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 8 microvolts for 50 dB quieting
Selectivity 30 dB
Loc/Dst sw. Yes
AFC Yes (auto)
St/Mono sw. Yes (auto)
Dig. readout No
Pushbuttons 5 AM; 5 FM (number of each)
Features Built-in noise blanker

GL-7851 Radio/Tape Player

Price \$249.95
Dimensions 5 5/16H x 7 1/16W x 2 3/4D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Bass; treble
R/P resp. 40 Hz to 12 kHz, ± 6 dB
S/N 55 dB (w/o NR)
S/N ref. lvl. 0.5W
THD 0.7%
THD ref. lvl. 0.5W
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 80 Hz to 12 kHz with no more than 10% THD

RADIO
Format Quad
FM sens. 8 microvolts for 50 dB quieting
Selectivity 40 dB

Loc/Dst sw. Yes
AFC Yes (auto)
St/Mono sw. Yes (auto)
Dig. readout No
Pushbuttons 5 AM/5 FM

DP-7872 Radio/Tape Player

Price \$199.95
Dimensions 1 23/32H x 7 1/8W x 5 11/32D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
R/P resp. 40 Hz to 12 kHz, ± 6 dB
S/N 52 dB (w/o NR)
S/N ref. lvl. 0.5W
THD 1.4%
THD ref. lvl. 0.5W
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 80 Hz to 12 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 10 microvolts for 50 dB quieting
Selectivity 54 dB
Loc/Dst sw. Yes (auto)
AFC Yes (auto)
St/Mono sw. Yes
Dig. readout No
Features Built-in noise blanker

DL-7841 Radio/Tape Player

Price \$129.95
Dimensions 1 31/32H x 6 3/4W x 5 5/16D
Mounting In dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
R/P resp. 40 Hz to 12 kHz, ± 6 dB
S/N 50 dB (w/o NR)
S/N ref. lvl. 0.5W
THD 0.7%
THD ref. lvl. 0.5W
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 80 Hz to 12 kHz with no more than 10% THD

RADIO
Format Stereo
FM sens. 10 microvolts for 50 dB quieting
Selectivity 30 dB
Loc/Dst sw. Yes (auto)
AFC Yes (auto)
St/Mono sw. Yes (auto)
Dig. readout No
Features Built-in noise blanker

TENNA

Tenna Corp.
19201 Cranwood Parkway
Cleveland, Ohio 44128

C-3010DMX Radio/Tape Player

Price \$279.95
Dimensions 2 3/4H x 7W x 5D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind Yes
R/P resp. 63 Hz to 12 kHz, ± 3 dB (with standard test tape)
S/N 50 dB (w/o NR)
S/N ref. lvl. 1W
THD 1%
THD ref. lvl. 1W
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 100 Hz to 12 kHz with no more than 5% THD

RADIO
Format Stereo

FM sens. 4 microvolts for 50 dB quieting
Selectivity 65 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Features Wow and flutter 0.15% (WRMS); clock

T-3009DMX Radio/Tape Player

Price \$269.95
Dimensions 2 3/4H x 7W x 5D
Mounting In dash
Format 8-track
R/P resp. 63 Hz to 12 kHz, ± 3 dB (with standard test tape)
S/N 50 dB (w/o NR)
S/N ref. lvl. 1W
THD 1%
THD ref. lvl. 1W
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 100 Hz to 12 kHz with no more than 5% THD

RADIO
Format Stereo
FM sens. 4 microvolts for 50 dB quieting
Selectivity 65 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Features Wow and flutter 0.20% (WRMS); clock

C-3039AR Radio/Tape Player

Price \$189.95
Dimensions 2 3/4H x 7W x 5D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
R/P resp. 40 Hz to 12 kHz, ± 3 dB (with standard test tape)
S/N 50 dB (w/o NR)
S/N ref. lvl. 1W
THD 1%
THD ref. lvl. 1W
Output 4 watts (6 dBW) per channel continuous into 4 ohms from 100 Hz to 12 kHz with no more than 5% THD

RADIO
Format Stereo
FM sens. 4 microvolts for 50 dB quieting
Selectivity 65 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Features Wow and flutter 1%; preamp output

C-3006HP Tape Player

Price \$109.95
Dimensions 2 1/2H x 6 1/2W x 7D
Mounting Under dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
Controls Bass; treble
R/P resp. 70 Hz to 12 kHz, ± 3 dB (with standard test tape)
S/N 50 dB (w/o NR)
S/N ref. lvl. 1W
THD 0.5%
THD ref. lvl. 1W
Output 12 watts (10.75 dBW) per channel continuous into 4 ohms from 100 Hz to 12 kHz with no more than 1% THD

RADIO
Features Wow and flutter 0.25% (WRMS)

Models also available

T-3004HP, \$109.95

Amplifiers & Power Boosters

ADS
Analog & Digital Systems, Inc.
One Progress Way
Wilmington, Mass. 01887

Power Plate 100

Price \$295
Dimensions 1 15/16H x 12 1/4W x 6 1/4D
Mounting Under dash
Output 50 watts (17 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.08% THD

Features Built-in preamplifier, equalizer and speaker and amplifier protection; remote power "on"; slimline design for easy mounting

AFCO

AFCO electronics
471 Roland Way
Oakland, Calif. 94621

PB-30E Graphic Equalizer/Amplifier

Price \$99.95
Dimensions 1 3/4H x 6 1/2W x 5 11/12D
Mounting In dash/under dash
Output 25 watts (14 dBW) per channel continuous into 4 ohms from 30 Hz to 30 kHz with no more than 1% THD

Features Fader control; power indicator light; equalizer adjustable at five frequencies

ALPINE

Alpine Electronics of America, Inc.
3102 Kashiwa St.
Torrance, Calif. 90505

3002 Power Amplifier

Price \$239.95
Dimensions 2 27/32H x 8W x 7 3/4D
Mounting Under dash
Output 50 watts (17 dBW) per channel continuous into 4 ohms from 10 Hz to 60 kHz with no more than 0.2% THD

Features Auto remote power "on" switch; input sensitivity control; preamp out; speaker out

ALTUS

Altus Corp.
6 Main St.
Melrose, Mass. 02176

PSF-3726 Graphic Equalizer/Amplifier

Price \$83.95

Dimensions 1 7/8H x 6 1/2W x 5D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 30 Hz to 20 kHz with no more than 10% THD
Features Five-band equalizer; 4-way fader control

PSL-3732 Power Amplifier

Price \$44.95
Dimensions 1 3/4H x 5W x 4D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 30 Hz to 20 kHz with no more than 10% THD

AUDIOMOBILE

Div. Advent Corp.
3221 W. MacArthur Blvd.
Santa Ana, Calif. 92704

SA-2000

Price \$399.95
Dimensions 4 1/4H x 7 3/4W x 7 7/8D
Output 100 watts (20 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.2% THD

Features Continuous, regulated power supply of 560W; 2-second turn-on delay; shielded magnetics for low RFI; includes 24' 8 gauge power wire and circuit breaker; low and high impedance inputs

SA-1000

Price N/A
Dimensions 4 1/4H x 7 3/4W x 7 7/8D
Output 50 watts (17 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.2% THD

Features Two-second turn-on delay; shielded magnetics; 375W fully regulated switching power supply; high and low impedance inputs; includes 12 gauge power wire and circuit breaker

SA-400

Price \$99.95
Dimensions 2H x 4 3/4W x 5 1/2D
Output 20 watts (16 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.25% THD

Features THD and IM typically less than 0.05%; balanced line, differential input for noise reduction; 28 transistor bridged, DC-coupled design

AUDIOVOX

Audiovox Corp.
150 Marcus Blvd.
Hauppauge, N.Y. 11787

HI-COMP HCB-860

Price \$200
Dimensions 3 1/2H x 7W x 8 1/4D
Mounting Under dash
Output 65 watts (18 dBW) per channel continuous into 4 ohms from 15 Hz to 20 kHz with no more than 0.3% THD

Features Direct-coupled complementary OTL circuitry; high and low level inputs; response 15 Hz to 15 kHz, ± 1 dB

HI-COMP HCB-830

Price \$200
Dimensions 3 1/2H x 7W x 8 1/4D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 15 Hz to 20 kHz with no more than 0.3% THD

Features Direct-coupled complementary OTL circuitry; 4 separate 30W amps; high and low level inputs; response 15 Hz to 15 kHz, ± 1 dB

HI-COMP HCE-750 Semi-Parametric Equalizer

Price \$150
Dimensions 2 1/2H x 6 1/4W x 4 1/4D
Mounting Under dash
Features Five-band semi-parametric equalizer (center frequency of each slide variable by 50 percent); high and low level inputs; biamp capability; (500 Hz and 2.5 kHz crossover)

AMP-600 Equalizer

Price \$110
Dimensions 1 7/8H x 6 1/2W x 6D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel continuous into 4 or 8 ohms

Features Front to rear fader; 5-band equalizer

AMP-550 Amplifier/Equalizer

Price \$72
Dimensions 1 1/2H x 4W x 5D
Mounting Under dash
Output 25 watts (14 dBW) per channel continuous into 4 ohms

Features Five-band equalizer; 4-speaker output with fader control; on/off switch with illuminated indicator

AMP-500

Price \$37.50
Dimensions 1 1/2H x 4W x 6 1/2D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 or 8 ohms

Features On/off switch; indicator light

AUTOTEK

Autotek Corp.
1447 N. Carolan Ave.
Burlingame, Calif. 94010

EQL-200 Graphic Equalizer/Amplifier

Price \$109.95
Dimensions 2H x 5 1/2W x 7D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 50 Hz to 15 kHz with no more than 5% THD

Features LED peak-level indicators; 5-band equalizer; front/rear fader

BLAUPUNKT

Blaupunkt Car Radio Div.
Robert Bosch Corp.
2800 South 25th Ave.
Broadview, Ill. 60153

BEA-200 Graphic Equalizer/Amplifier

Price \$232.70

Dimensions 1 3/5H x 7 1/2W x 5 1/2D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 30 Hz to 40 kHz with no more than 1.0% THD
Features Five-band equalizer; front/rear fader; tone-defeat switch; reverb unit with delay and gain controls

BEA-100 Graphic Equalizer/Amplifier

Price \$143.90
Dimensions 1 3/5H x 5 1/2W x 5 1/2D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 30 Hz to 40 kHz with no more than 1% THD
Features Five-band equalizer; front-to-rear fader control; tone-defeat switch

BOMAN Boman Industries 9300 Hall Road Downey, Calif. 90241

EQA-60 Graphic Equalizer/Amplifier

Price N/A
Dimensions 2H x 7 1/4W x 5 3/4D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 27 Hz to 20 kHz
Features Electronic reverb; 4-way fader control; power-output meter; 5-band equalization

EQA-30 Graphic Equalizer/Amplifier

Price N/A
Dimensions 2H x 6 3/4W x 5 1/2D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 27 Hz to 20 kHz
Features Power output meter; 5-band equalization; 4-way fader control

EQA-25 Graphic Equalizer/Amplifier

Price N/A
Dimensions 1 3/4H x 4W x 4 3/4D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz
Features Three-band equalization

BOSE Bose Corp. 100 The Mountain Road Framingham, Mass. 01701

1401 System

Price \$299.90 (includes 4 speakers and booster/equalizer)
Dimensions 1 1/2H x 10W x 4 1/2D
Output 50 watts (17 dBW) per channel continuous into 0.45 ohms from 40 Hz to 17 kHz with no more than 0.09% THD
Features IM 0.04% (20W); response, 40 Hz to 17 kHz, ±1 dB; S/N 70 dB (IHF A-weighted re 1W); unit must be used with Bose speakers; complete system includes 2 Direct/Reflecting® grilles, 2 accessory grilles, 4 drivers, and 100-watt booster/equalizer with active electronic equalization

CAR-FI Car-Fi International 152 West Cypress Ave. Burbank, Calif. 91502

EPA-7200

Price \$359.95
Dimensions 3 1/2H x 6W x 15D
Mounting Trunk
Output 100 watts (20 dBW) per channel continuous into 1, 2, 4 or 8 ohms from 20 Hz to 20 kHz with no more than 0.5% THD
Features Selectable Impedance at output; reverse polarity; short circuit and overload protected

EQL-5500 Preamplifier/Equalizer

Price \$299.95
Dimensions 2H x 6 3/10W x 4 1/5D
Mounting In dash/under dash
Features Includes 5-band equalizer; 50 LED power display; peak-level indicator; 4-way balancing; mute; 2 inputs; equalization defeat; electronic crossover

EPX-3100 Amplifier/Crossover

Price \$219.95
Dimensions 3 1/2H x 4 9/10W x 13D
Mounting Trunk
Output 13 watts (11.25 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD
Features Includes electronic crossover with 6 selectable crossover points, or a "flat" setting; short circuit and overload protected

EPA-7000

Price \$199.95
Dimensions 3 1/2H x 6W x 9D
Mounting Trunk
Output 50 watts (17 dBW) per channel continuous into 1, 2, 4 or 8 ohms from 20 Hz to 20 kHz with no more than 0.5% THD
Features Selectable impedance at the output; short circuit, overload and reverse polarity protected

EQA-311 Amplifier/Equalizer

Price \$199.95
Dimensions 1 3/5H x 4 1/5W x 6D
Mounting Under dash
Output 21 watts (13.25 dBW) per channel continuous into 4 or 8 ohms from 50 Hz to 12 kHz with no more than 3% THD
Features Includes 5-band equalizer fader control; power LED indicator; selectable impedance at the output

EPR-100 Preamplifier

Price \$59.95
Dimensions 1 1/2H x 2 1/10W x 4D
Mounting In dash/under dash
Features Adjustable input sensitivity from 20 mV to 3.5V; 50 dB isolation of input/output grounds; volume control

EXV-100 Electronic Crossover

Price \$49.95
Dimensions 1 2/5H x 3 1/5W x 5 3/5D
Mounting Under dash/trunk
Features Six selectable crossover frequencies or "flat" setting; all DIN type connecting system

CLARION Clarion Corp. of America 5500 Rosecrans Ave. Lawndale, Calif. 90260

GA-302E

Price \$100
Dimensions 2H x 5 1/2W x 6D
Mounting Remote (trunk)
Output 24 watts (13.75 dBW) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 1% THD
Features Designed for use with model PE-958A, response 40 Hz to 30 kHz, ±3 dB; S/N 80 dB

GA-301E

Price \$55
Dimensions 1H x 5 1/2W x 4D
Mounting Remote (trunk)
Output 12 watts (10.75 dBW) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 1% THD
Features Designed for use with model PE-958A; S/N, 76 dB; frequency response 20 Hz to 40 kHz, ±3 dB

EE-115 Equalizer

Price \$55
Dimensions 2H x 5 1/2W x 1D
Output 0.89V into 500 ohms
Features Five bands, ±12 dB; -1 dB insertion gain; for use with PE-958A radio/tape player; 20K ohms input impedance

COBRA Dynascan Corp. 6460 West Cortland Chicago, Ill. 60635

GEA 60-7 Graphic Equalizer/Amplifier

Price \$149.95
Dimensions 2 1/4H x 7 1/2W 7 1/2D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel
Features Fader control; 7-band equalizer; LED power "on" indicator and power level indicator; on/off power bypass switch

GEA 40-5 Graphic Equalizer/Amplifier

Price \$90
Dimensions 2H x 5 3/4W x 6D
Mounting Under dash
Output 20 watts (13 dBW) per channel
Features Fader control; 5-band equalizer; LED power "on" indicator; on/off power bypass switch

COMM Comm Industries, Inc. Subsidiary of Kettering Industries 1505 Commonwealth Ave. Boston, Mass. 02135

PB-600 Amplifier/Equalizer

Price \$139.95

Dimensions 2H x 5½W x 7¾D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 20 Hz to 15 kHz with no more than 1% THD
Features Built-in 6-band equalizer; LED indicators above each slide control to display frequency positions

PB-580 Amplifier/Equalizer

Price \$119.95
Dimensions 1¾H x 5½W x 5¾D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 20 Hz to 15 kHz with no more than 1% THD

CONCORD

Westland International
 20121 Ventura Blvd.
 Suite 320
 Woodland Hills, Calif. 91364

HPA-60 Amplifier/Equalizer

Price \$179.95
Dimensions 8H x 5¾W x 2¾D
Mounting Under dash
Output 25 watts (14 dBW) per channel continuous into 2 ohms from 20 Hz to 20 kHz with no more than 0.3% THD
Features Built-in 5-band equalizer; LED output indicator; equalizer; equalizer bypass switch for "flat" amp

8 PA-40

Price \$139.95
Dimensions 2½H x 6W x 5½D
Mounting In dash/under dash
Output 25 watts (14 dBW) per channel continuous into 2 ohms from 20 Hz to 20 kHz with no more than 0.3% THD
Features Low-noise differential input; remote on/off; low power drain; does not contain DC-to-DC converter supply

CRAIG

Craig Corp.
 921 W. Artesia Blvd.
 Compton, Calif. 90220

V-503 Amplifier/Equalizer

Price \$199.95
Dimensions 3H x 9W x 5½D
Mounting Under dash
Output 36 watts (15.5 dBW) per channel continuous into 4 ohms from 50 Hz to 15 kHz with no more than 0.5% THD
Features Includes 4-band equalizer with reversible slide-out racket; electronic timer, delay for speaker protection; tone defeat; power range push button; OCL/OTL DC-coupled amplifier

V-505 Amplifier/Equalizer

Price \$144.95
Dimensions 2¾H x 6½W x 5½D
Mounting Under dash
Output 24 watts (14 dBW) per channel continuous into 4 ohms from 50 Hz to 15 kHz with no more than 1.0% THD
Features Built-in 4-band equalizer; power-range push-button OCL/OTL DC-coupled amplifier

V-502 Booster

Price \$84.95
Dimensions 5½H x 8½W x 2½D
Mounting Under dash
Output 24 watts (14 dBW) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 1.0% THD
Features Plug-in installation; can be used with any Craig unit; compatible with 4-speaker matrix systems; auto power switching

V-501 Booster

Price \$59.95
Dimensions 2H x 7¾W x 5¾D
Mounting Under dash
Output 12 watts (10.75 dBW) per channel continuous into 4 ohms from 50 Hz to 15 kHz with no more than 2.0% THD
Features Automatic power switching; compatible with 4-speaker matrix systems; plug-in installation

DRACO

Draco Labs, Inc.
 1005 Washington St.
 Grafton, Wis. 53024

D-30 Amplifier

Price \$49.95
Dimensions 1¾H x 5¾W x 5¾D
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 50 Hz to 15 kHz with no more than 1% THD
Features Short-circuit protection

ELECTRONIC

Electronic Industries, Inc.
 271 E. 171st St.
 Harvey, Ill. 60426

601 Amplifier/Equalizer

Price \$129.95
Dimensions 1½H x 6½W x 7D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 1% THD
Features Built-in 5-band equalizer

110 Amplifier/Equalizer

Price \$69.95
Dimensions 1½H x 5½W x 7D
Mounting Under dash
Output 18 watts (12.5 dBW) per channel continuous into 4 ohms from 30 Hz to 20 kHz with no more than 1% THD
Features Power Indicator light; bass/treble slide control

ELITE

Elite Mobile Sound Devices
 Pyramid Industries
 12970 Branford St.
 Arleta/Los Angeles, Calif.
 91331

PMA-270 Power Amplifier

Price \$469
Dimensions 2½H x 11W x 7½D
Mounting Under dash

Output 270 watts (24.25 dBW) per channel continuous into 4 ohms from 15 Hz to 50 kHz with no more than 0.3% THD
Features Floating or common-ground input; fused outputs; inverting power supply; high or low impedance input

X-SPEC-5 Preamplifier

Price \$199.95
Dimensions 1 9/16H x 8W x 4 5/16D
Mounting In dash/under dash
Features Individual front and rear speaker equalization; 10 power output LEDs high or low impedance input; tape/radio selector switch; biamp or stereo operation; 40 Hz to 25 kHz response into 4 or 8 ohms

X-420 Power Amplifier

Price \$139.95
Dimensions 1 5/16H x 6W x 8¾D
Mounting Under dash
Output 100 watts (20 dBW) per channel continuous into 4 ohms from 40 Hz to 25 kHz with no more than 0.5% THD
Features Biamp or stereo operation; tweeter volume control; high or low impedance input

EVADIN

TZL International Corp.
 2020 West 16th St.
 Broadview, Ill. 60153

EQB-61 Graphic Equalizer/Power Booster

Price \$99.95
Dimensions 1¾H x 5¾W x 6½D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 10 Hz to 20 kHz
Features Fader control; 5-band equalizer

EQB-260 Graphic Equalizer/Power Booster

Price \$69.95
Dimensions 1½H x 4W x 3¾D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 50 Hz to 15 kHz
Features Miniature size; 5-band equalizer

EQB-60 Power Booster

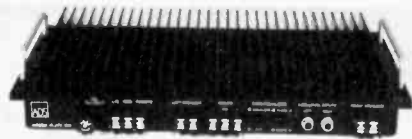
Price \$49.95
Dimensions 1½H x 4W x 4½D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 50 Hz to 15 kHz
Features Bass and treble controls; fader control

EQB-160 Power Booster

Price \$39.95
Dimensions 1½H x 4W x 4¾D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 50 Hz to 15 kHz
Features Fader control

E.Z.

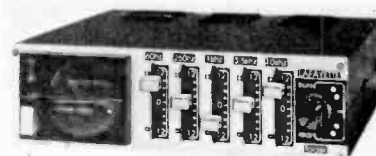
E.Z. World of Sound
 16125 Cantlay St.
 Van Nuys, Calif. 91406



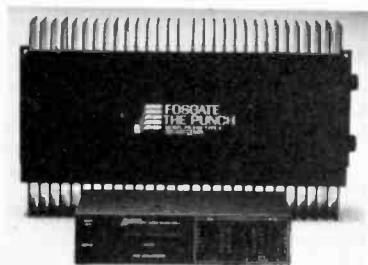
ADS Power Plate 100



Bose 1401



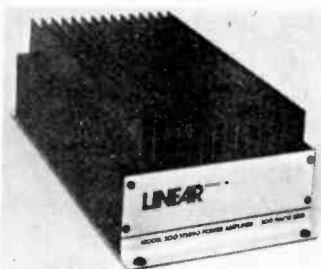
Lafayette EQ-60



Fosgate PR-2100



Kraco KE-7



Linear Model 300

303-DX Graphic Equalizer/Amplifier

Price \$98.95
Dimensions 1 3/4H x 5 3/4W x 6 1/2D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 10 Hz to 30 kHz with no more than 1% THD
Features Front rear fader control; tone-defeat switch; power meter; 7-band equalizer

KE-701 Graphic Equalizer/Amplifier

Price \$91.95
Dimensions 1 3/4H x 5 1/2W x 6 1/2D
Mounting Under dash
Output 25 watts (14 dBW) per channel continuous into 4-8 ohms from 20 Hz to 30 kHz with no more than 1% THD
Features Front/rear fader control; LED power indicator; 7-band equalizer

304-DX Graphic Equalizer/Amplifier

Price \$79.95
Dimensions 2 1/12H x 6 3/8W x 5 1/4D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 10 Hz to 30 kHz with no more than 1% THD
Features Front rear fader control; tone-defeat switch; power indicator; 5-band equalizer

MR-78 Graphic Equalizer/Amplifier

Price \$74.95
Dimensions 2 1/2H x 6 3/8W x 5 1/4D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 10 Hz to 30 kHz with no more than 1% THD
Features Tone-defeat switch; power indicator; 5-band equalizer

FINCO
The Finney Company
 34 W. Interstate St.
 Bedford, Ohio 44146

Stereo II Booster

Price \$39.95
Dimensions 2H x 4 3/4W x 3 1/4D

Mounting Under dash
Features Increases signal up to 16 times; will not overload in strong signal areas; linear potentiometer gain control; solid state-dual MOSFET circuitry

Stereo I Booster

Price \$25.95
Dimensions 1 1/4H x 2 1/2W x 1 1/4D
Mounting Under dash
Features Increases signal up to 3 times; "on" Indicator light

FOSGATE
Fosgate Electronics
 2935 West Fairmount Ave.
 Phoenix, Ariz. 85017

PR-2100

Price \$420
Dimensions Power amp, 2 1/2H x 14 1/8W x 7 7/8D; preamp, 1 3/4H x 7 3/4W x 3 1/4D
Mounting Under dash
Output 100 watts (20 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD

Features Bi-amplified system; speaker and thermal protection

PR-250

Price \$225.95
Dimensions Power amp, 1 5/8H x 4W x 2 3/8D; preamp 2 1/2H preamp, 7 3/8W x 6 3/4D
Mounting Under dash
Output 50 watts (17 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD

Features Speaker and thermal protection

PR-220

Price \$110
Dimensions 2 1/2H x 7 3/8W x 6 3/4D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD

Features Speaker and thermal protection

FULTRON
Arthur Fulmer, Inc.
 122 Gayoso
 Memphis, Tenn. 38103

15-0730 Graphic Equalizer/Amplifier

Price \$99.95
Dimensions 1 3/4H x 5 1/2W x 6 1/2D
Mounting Under dash

Output 20 watts (13 dBW) per channel continuous into 8 ohms from 45 Hz to 15 kHz with no more than 10% THD
Features Fader; 7-band equalizer

15-0720 Amplifier

Price \$49.95
Dimensions 4 3/8H x 1 5/8W x 6D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 8 ohms from 50 Hz to 14 kHz with no more than 10% THD
Features Treble and bass controls; manual on/off or automatic bypass

GRUNDIG
LAS Electronics East/West, Inc.
 85C Saratoga Blvd.
 Island Park, N.Y. 11558

ESO EQPA Preamp/Equalizer

Price \$376
Dimensions 1 1/2H x 4 1/2W x 3 1/2D
Features Bass, midrange, and treble slides; 2 peak LED indicators; channel balance with center detent

ESO-70 Amplifier

Price \$188
Dimensions 2 1/2H x 5 1/2W x 8D
Mounting In dash
Output 35 watts (15.5 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.2% THD

Features IM less than 0.2% at 35W; damping factor 300; frequency response 10 Hz to 50 kHz, +0, -1 dB; input sensitivity(line) 1.2V; S/N 95 dB; crosstalk 80 dB (1 kHz); connectors for high- and low-level inputs

GAA-7500 Amplifier/Equalizer

Price \$109

GAA-5500 Amplifier

Price \$79
Output 20 watts (13 dBW) per channel

GAA-7000 Equalizer

Price \$72
Dimensions 1 5/8H x 6 1/2W x 3 1/2D
Features Five frequency ranges, ±12 dB; LED power indicator

GAA-6000 Equalizer

Price \$66
Features Biamp

HANDIC
Handic U.S.A., Inc.
15945 N.W. 57th Ave.
Hialeah, Fla. 33014

EQ-20-7 Graphic Equalizer/Power Booster

Price \$119.95
Dimensions 1¾H x 5¾W x 6¼D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz
Features Preamp out jacks; high/low switch; fader control; 7-band equalizer

KRACO
Kraco Enterprises, Inc.
505 E. Euclid Ave.
Compton, Calif. 90224

KE-7 Amplifier/Equalizer

Price \$129.95
Dimensions 2½H x 7¼W x 7 7/8D
Mounting Under dash
Output 40 watts (16 dBW) continuous into 4 ohms from 20 Hz to 30 kHz with no more than 10% THD
Features Built-in equalizer with ±12 dB boost/cut at 7 bands between 60 Hz and 15 kHz; power meters; fader controls; heat sink; head-phone jack; power on/off

KE-5 Booster/Equalizer

Price \$99.95
Dimensions 1½H x 5¼W x 6¾D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 30 kHz with no more than 10% THD
Features Built-in equalizer with ±12 dB boost/cut at 5 bands between 60 Hz and 15 kHz; includes hardware

KE-3 Booster/Equalizer

Price \$79.95
Dimensions 1½H x 5¼W x 6¾D
Mounting Under dash
Output 18 watts (12.5 dBW) per channel continuous into 4 ohms from 20 Hz to 30 kHz with no more than 10% THD
Features Built-in equalizer with low/mid/high controls; "power on" LED

PB-131 Power Booster

Price \$45
Dimensions 2H x 5¾W x 4¾D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 10% THD
Features On/off switch; dial light; includes mounting hardware and installation instructions

KUSTOM KREATIONS
Kustom Kreations, Inc.
19316 Londelius St.
Northridge, Calif. 91324

902
Price \$59.95

Dimensions 3¼H x 7½W x 3½D
Mounting Remote
Output 75 watts (18.75 dBW) per channel
Features LED indicators for switching section

LAFAYETTE
Lafayette Radio Electronics Corp.
111 Jericho Turnpike
Syosset, N.Y. 11791

EQ-60 Booster/Equalizer

Price \$89.99
Output 30 watts (14.75 dBW) per channel continuous into 8 ohms from 50 Hz to 15 kHz
Features Built-in 5-band equalizer (±12 dB at 60 Hz, 260 Hz, 1 kHz, 3.5 kHz; 10 kHz); power output meter

LASER ACOUSTICS
Laser Acoustics Co.
5667 Lankershim Blvd.
North Hollywood, Calif. 91601

LA-5000 Amplifier

Price \$639
Dimensions 3¼H x 9W x 11½D
Mounting Under dash or in trunk
Output 250 watts (24 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.09% THD
Features Digital power supply; forced-air cooling; high and low level adjustable inputs

LA-2250 Amplifier

Price \$349
Dimensions 2¾H x 8½W x 10¾D
Mounting Under dash or in trunk
Output 125 watts (21 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.90% THD
Features Same as Model LA-5000

LA-2150 Amplifier

Price \$239
Dimensions 2¾H x 8½W x 10¾D
Mounting Under dash
Output 75 watts (18.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.09% THD
Features Digital power supply; high level and low level adjustable inputs

LA-250 Preamplifier/Equalizer

Price \$149
Dimensions 1½H x 5¼W x 5D
Mounting In dash/under dash
Output 20 Hz to 20 kHz with no more than 0.05% THD
Features Bass/mid/treble equalization; balance control; volume control; source selection accepts up to 2 sources

LINEAR POWER
Schmegg Electronics, Inc.
11545 D Ave., East
Auburn, Calif. 95603

300
Price \$499.95
Dimensions 3½H x 7½W x 13½D

Mounting Under dash
Output 75 watts (18.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD
Features Delayed turn-on; filtered 12 volts out; unplug installation; variable gain

150
Price \$299.95
Dimensions 3½H x 7½W x 9¼D
Output 75 watts (18.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD
Features Filtered 12 volts out; variable gain unplug installation; delayed turn-on

90
Price \$199.95
Dimensions 3½H x 7½W x 6½D
Output 45 watts (16.5 dBW) per channel continuous into 8 ohms from 20 Hz to 20 kHz with no more than 0.05% THD
Features Filtered 12 volts out; delayed turn-on; unplug installation; variable gain

60A
Price \$149.95
Dimensions 3H x 8½W x 6D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.25% THD
Features Dual sensitivity inputs; delayed turn-on; filtered 12-volts out

Preamplifier/Equalizer
Price \$139.95
Dimensions 1½H x 7W x 3¾D
Mounting Under dash
Output 2.5V per channel continuous into 2.2K ohms from 20 Hz to 20 kHz with no more than 0.01% THD
Features Three-band equalizer; pushbutton source select; unplug installation; switched 12 volts out

40A
Price \$89.95
Dimensions 2H x 8W x 3D
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.2% THD
Features Differential outputs; high- and line-level inputs; very low current consumption (ideal for battery or solar-powered systems)

MARANTZ
Marantz Co., Inc.
20525 Nordhoff St.
Chatsworth, Calif. 91311

SA-2415
Price \$250
Dimensions 2H x 5¼W x 10¼D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD (2-amp operation); 15 watts (11.75 dBW) per channel in 4-amp mode
Features Switching power supply; 4 inputs; 4 outputs; bridging capability; dual input sensitivity/impedance; voltage sensing; auto turn-on

SA-247 Graphic Equalizer/Amplifier

Price \$160
Dimensions 2½H x 6¾W x 5¾D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.5% THD

SA2040

Price \$150
Dimensions 2H x 9 9/16W x 9 11/16D
Mounting Under dash
Output 10 watts (10 dBW) per channel continuous into 4 ohms from 30 Hz to 20 kHz with no more than 0.5% THD
Features Dual input sensitivity/impedance; voltage sensing; auto turn-on

SA-230 Integrated Power Amplifier

Price \$70
Dimensions 1½H x 4¾W x 7¼D
Mounting Under dash
Output 10 watts (10 dBW) per channel continuous into 4 ohms from 30 Hz to 20 kHz with no more than 0.5% THD

MATRECS

Matrecs Industries
805 Woodmer Ave.
Winslow, Ill. 61089

MA-1050 Equalizer/Booster

Price \$124.95
Dimensions 2H x 5½W x 7¼D
Mounting Under dash
Output 25 watts (14 dBW) per channel continuous into 4 to 8 ohms from 30 Hz to 30 kHz with no more than 0.4% THD

Features Booster bypass with power switch; complete protection against short circuit, overheating, excess voltage, and reverse polarity; balanced transformerless power amplifier

MA-1040 Equalizer/Booster

Price \$116.50
Dimensions 2¾H x 5¾W x 5¾D
Mounting Under dash
Output 25 watts (14 dBW) per channel continuous into 4 to 8 ohms from 30 Hz to 30 kHz with no more than 0.4% THD

Features Booster bypass with power switch; complete protection against short circuit, overheating, excess voltage, and reverse polarity; balanced transformerless power amplifier

MA-1000 Booster

Price \$77.50
Dimensions 2¾H x 5¾W x 5¾D
Mounting Under dash
Output 25 watts (14 dBW) per channel continuous into 4 to 8 ohms from 30 Hz to 30 kHz with no more than 0.4% THD

Features Tone control or output variable control; booster bypass with power switch; complete protection against short circuit, overheating, excess voltage, and reverse polarity; balanced transformerless power amplifier

MEGA

Mega Electronics, Inc.
12737 Garvey Ave.
Baldwin Park, Calif. 91708

Mega 100

Price \$115
Dimensions 1 7/10H x 6W x 6½D
Mounting Under dash
Output 50 watts (17 dBW) per channel continuous into 4 ohms from 25 Hz to 17 kHz with no more than 0.07% THD

Features Balanced line input eliminates alternator noise; works with floating output radios; background noise, -110 dB

METRO SOUND

Metro Sound
10615 Vanowen St.
North Hollywood, Calif. 91605

MS-75

Price \$159.95
Dimensions 4H x 6¾W x 6¾D
Mounting Under dash
Output 36 watts (15.5 dBW) per channel continuous into 4 ohms from 30 Hz to 22 kHz with no more than 0.3% THD

Features Locking speaker input connector; locking output connector; noise suppressor filter choke

MS-55

Price \$109.05
Dimensions 2H x 6¾W x 5¾D
Mounting Under dash
Output 25 watts (14 dBW) continuous into 4 ohms from 30 Hz to 30 kHz with no more than 0.8% THD

Features Locking speaker input connector; locking output connector; noise suppressor filter choke

MIDLAND

Midland International Corp.
1900 Johnson Drive
at State Line Road
Shawnee Mission, Kans. 66205

60-150 Amplifier/Equalizer

Price \$99.95
Dimensions 2 7/16H x 6W x 6D
Mounting Under dash
Output 16 watts (12 dBW) per channel continuous into 8 ohms from 60 Hz to 10 kHz with no more than 1% THD

Features Built-in equalizer; front-rear fader; "power on" light; special slide mount (can mount from top or bottom without special adapters")

MITSUBISHI

Mitsubishi Audio Systems
Melco Sales, Inc.
3030 E. Victoria St.
Compton, Calif. 90221

CV-23

Price \$159.95

Dimensions 1 4/5H x 5½W x 6 1/5D
Output 14 watts (11.5 dBW) per channel continuous into 4 ohms with no more than 1% THD

CV-21

Price \$139.95
Dimensions 1 4/5H x 5½W x 6 1/5D
Mounting Under dash
Output 10 watts (10 dBW) per channel continuous into 4 ohms with no more than 1% THD

CV-22

Price \$89.95
Dimensions 1 4/5H x 5½W x 6 1/5D
Mounting Under dash
Output 10 watts (10 dBW) per channel continuous into 4 ohms with no more than 1% THD

MOTOROLA

Motorola, Inc.
Automotive Products Div.
1299 E. Algonquin Road
Schaumburg, Ill. 60196

EQB-4001 Booster/Equalizer

Price \$139.95
Dimensions 2H x 5¾W x 7¼D
Output 40 watts (16 dBW) per channel
Features 5 bands, 24 dB range in each band; 6 ohms per speaker in 4-speaker system; slide controls for five frequency bands; frequency response from 35 Hz to 20 kHz (-3 dB); 10 power output LED color-coded indicators; front-to-rear fader; THD: 1% typical at 15 watts output at 1 kHz

EQB-4000 Booster Equalizer

Price \$129.95
Dimensions 2H x 5¾W x 7¼D
Output 40 watts (16 dBW) per channel
Features 5 bands, 24-dB range in each band; 6 ohms per speaker in 4-speaker system; slide control for 5 frequency bands; frequency response from 35 Hz to 20 kHz (-3 dB); front-to-rear fader; THD: 1% at 15 watts output at 1 kHz

PA-5000 Amplifier/Equalizer

Price \$89.95
Dimensions 2½H x 5¾W x 8D
Mounting Under dash
Output 25 watts (14 dBW) per channel
Features Audio bypass switch; compatible with 4, 6, or 8-ohm speakers; THD less than 1% at 1 kHz at 50 watts rms; switchable equalization; switches for bass boost/fat response

PA-3000 Amplifier

Price \$49.95
Dimensions 1¾H x 4¾W x 5¾D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel
Features Four audio power integrated circuits; input impedance of 27 ohms; compatible with 4, 6, or 8-ohm speakers; equalized frequency shaping built-in

MUNTZ

Muntz Hi Z, Inc.
180 Shipley St.
San Francisco, Calif. 94107

Z-50 Amplifier

Price \$149

Dimensions 1 $\frac{1}{2}$ "H x 6"W x 7 $\frac{1}{2}$ "D
Output 50 watts (17 dBW) per channel continuous into 4 ohms from 25 Hz to 22 kHz with no more than 1% THD
Features Heavy-duty heat sink; DC-DC inverted amp

Z-60 Graphic Equalizer/Amplifier

Price \$134.95
Dimensions 1 $\frac{1}{4}$ "H x 6 $\frac{1}{2}$ "W x 5 $\frac{1}{2}$ "D
Output 60 watts (17.75 dBW) per channel continuous into 4 ohms from 25 Hz to 25 kHz with no more than 1% THD
Features Fader control; high and low impedance inputs; 5-band equalizer

NUMARK Numark Electronics Corp. 503 Raritan Center Edison, N.J. 08817

EB-600 Graphic Equalizer/Amplifier

Price \$129.95
Dimensions 2 $\frac{1}{2}$ "H x 6 $\frac{1}{2}$ "W x 6 $\frac{1}{2}$ "D
Mounting Under dash
Output 30 watts (14.75 dBW) per channel continuous into 8 ohms
Features Front/rear fader; equalization defeat switch; 5-band equalizer

OLSON Olson Electronics 260 S. Forge St. Akron, Ohio 44324

AU-753 Amplifier

Price \$24.98
Dimensions 1 $\frac{3}{4}$ "H x 5 $\frac{1}{4}$ "W x 4"D
Mounting Under dash
Output 40 watts (16 dBW) per channel continuous into 4 ohms from 100 Hz to 10 kHz
Features Tone control; power meter

PANASONIC Panasonic Car Audio One Panasonic Way Secaucus, N.J. 07094

CJ-5000

Price \$229.95
Dimensions 2 $\frac{1}{2}$ "H x 7 $\frac{1}{2}$ "W x 9 $\frac{1}{2}$ "D
Mounting Under dash
Output 100 watts (20 dBW) per channel continuous into 4 ohms from 15 Hz to 40 kHz with no more than 0.05% THD
Features Dual inputs for general car radio or Panasonic preamps

CJ-4000

Price \$189.95
Dimensions 2 $\frac{1}{4}$ "H x 5 $\frac{1}{4}$ "W x 10 $\frac{1}{2}$ "D
Mounting Under dash
Output 40 watts (16 dBW) per channel continuous into 4 ohms from 20 Hz to 40 kHz with no more than 0.08% THD
Features Designed for Panasonic preamps

CJ-3600 Amplifier/Equalizer

Price \$129.95
Dimensions 1 $\frac{1}{2}$ "H x 7 $\frac{1}{2}$ "W x 7 $\frac{1}{4}$ "D
Mounting Under dash
Output 24 watts (13.75 dBW) per channel continuous into 4 ohms from 30 Hz to 30 kHz with no more than 5% THD
Features Built-in 5-band equalizer; for 2 or 4 speakers; fader control

CJ-3000

Price \$109.95
Dimensions 2 $\frac{1}{4}$ "H x 5 $\frac{1}{4}$ "W x 8 $\frac{1}{2}$ "D
Mounting Under dash
Output 28 watts (14.5 dBW) per channel continuous into 4 ohms from 30 Hz to 40 kHz with no more than 0.1% THD
Features Designed for Panasonic preamps

CJ-2557

Price \$79.95
Dimensions 1 11/32"H x 16 11/16"W x 5 $\frac{1}{4}$ "D
Mounting Under dash
Output 40 watts (16 dBW) per channel continuous into 4 ohms from 70 Hz to 10 kHz with no more than 5% THD

CJ-2600

Price \$59.95
Dimensions 2 $\frac{1}{4}$ "H x 4 $\frac{1}{4}$ "W x 6 $\frac{1}{2}$ "D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 80 Hz to 16 kHz with no more than 5% THD

CJ-156 Z

Price \$54.95
Dimensions 2 7/32"H x 4 3/32"W x 6 5/32"D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 80 Hz to 16 kHz with no more than 5% THD

PIONEER Pioneer Electronics of America 1925 E. Dominguez St. Long Beach, Calif. 90810

AD-50 Graphic Equalizer/Amplifier

Price \$249.95
Dimensions 2 $\frac{1}{2}$ "H x 5 $\frac{7}{8}$ "W x 7"D
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 30 Hz to 30 kHz with no more than 1% THD
Features "Power on" LED; fits under dash or stacks with other Pioneer car stereos; for use with all non-component car stereos and tape decks; 10-LED power-level display; 5-band equalizer

AD-360 Power Booster

Price \$229.95
Dimensions 2 $\frac{1}{2}$ "H x 9"W x 8"D
Output 50 watts (17 dBW) per channel continuous into 4 ohms from 20 Hz to 30 kHz with no more than 0.8% THD
Features Built-in protection circuits; automatic on/off power switch

GM-120 Amplifier

Price \$199.95
Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 30 Hz to 20 kHz with no more than 0.2% THD

AD-30 Graphic Equalizer/Amplifier

Price \$149.95
Dimensions 2H x 5 $\frac{7}{8}$ W x 6 $\frac{1}{2}$ D
Output 10 watts (10 dBW) per channel continuous into 4 ohms from 30 Hz to 30 kHz with no more than 1% THD
Features Fits under dash or stacks with other Pioneer car stereos; 2 peak-power LEDs; "power on" LED; 5-band equalizer

GM-40 Component Stereo Main Amplifier

Price \$84.95
Dimensions 2H x 4 13/16W x 6D
Output 20 watts (13 dBW) per channel continuous into 4 ohms from 50 Hz to 20 kHz with no more than 0.8% THD
Features For use with Pioneer models KPX-9500, KPX-9000, KPX-600, KP-707G, KP-88G, KP-77G, and KP-66G; balanced parallel transformerless IC for high power and low distortion

AD-320 Amplifier

Price \$79.95
Dimensions 2 $\frac{1}{2}$ "H x 4 $\frac{5}{8}$ "W x 5 $\frac{1}{2}$ "D
Output 16 watts (12 dBW) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 0.8% THD
Features For use with all non-component car stereos and tape decks

AD-312 Amplifier

Price \$59.95
Dimensions 2 $\frac{1}{2}$ "H x 4 $\frac{5}{8}$ "W x 5 $\frac{1}{2}$ "D
Output 9 watts (9.5 dBW) per channel continuous into 4 ohms from 50 Hz to 18 kHz with no more than 1% THD
Features For use with all non-component car stereos and tape decks

GM-12 Amplifier

Price \$54.95
Output 22 watts (3.5 dBW) per channel continuous into 4 ohms from 50 Hz to 20 kHz with no more than 0.8% THD

POWER DRIVE Recoton Corp. 46-23 Crane St. Long Island City, N.Y. 11101

SE-70 Graphic Equalizer/Amplifier

Price \$149.99
Mounting Under dash
Output 60 watts (17.75 dBW) per channel continuous into 4 ohms from 20 Hz to 30 kHz with no more than 1% THD
Features Floating on common ground; 7-band equalizer; illuminated power meter

SE-50 Graphic Equalizer/Amplifier

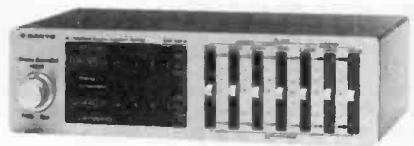
Price \$129.95
Mounting Under dash
Output 48 watts (16.75 dBW) per channel continuous into 4 ohms from 20 Hz to 30 kHz with no more than 1% THD
Features Front/rear/both speaker selector; 5-band equalizer (±12 dB at 50 Hz, 250 Hz, 1 kHz, 3.5 kHz, and 10 kHz)



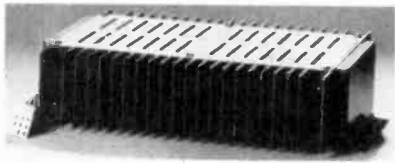
Marantz SA-2415



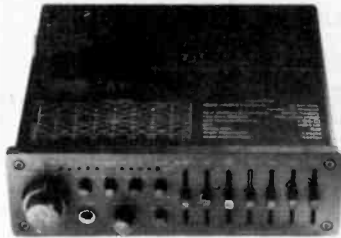
Realistic 12-2879



Sanyo EQZ-6400



Pyramid X-420



Royal Sound RC-2000



Visonik A-301

PYRAMID
Pyramid Industries
 12970-7N Branford St.
 Arleta, Calif. 91331

PMA-270 Amplifier
Price \$469.95
Dimensions 2 1/4 H x 11 1/8 W x 7 1/2 D
Mounting Under dash
Output 270 watts (24.25 dBW) per channel continuous into 4 ohms from 15 Hz to 50 kHz with no more than 0.3% THD
Features Floating or/common ground input; high/low impedance input; fused outputs for speaker protection; split power supply inverted

X-420 Amplifier
Price \$159.95
Dimensions 1 5/16 H x 6 W x 8 D
Mounting Under dash
Output 100 watts (20 dBW) per channel continuous into 4 ohms from 40 Hz to 25 kHz with not more than 0.5% THD
Features High/low impedance input; volume control; can be blamped

PMA-100 Amplifier
Price \$109.95
Dimensions 2 1/4 H x 3 1/2 W x 5 1/2 D
Mounting Under dash
Output 100 watts (20 dBW) per channel continuous into 4 ohms from 80 Hz to 20 kHz with no more than 1.0% THD
Features Floating or common ground input

REALISTIC
Radio Shack Corp.
 1400 One Tandy Center
 Ft. Worth, Texas 76102

12-1879 Booster/Equalizer
Price \$99.95
Dimensions 7 H x 7 3/4 W x 5 1/2 D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms with no more than 10% THD
Features Built-in 5-band equalizer; lighted power meters

12-1878 Booster/Equalizer
Price \$79.95
Dimensions 2 H x 6 W x 5 1/2 D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 30 Hz to 30 kHz with no more than 10% THD
Features Built-in 5-band equalizer; fader control; auto switching

12-1877 Booster
Price \$49.95
Dimensions 3 3/8 H x 5 1/2 W x 3 3/8 D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms with no more than 10% THD

12-1876 Booster
Price \$29.95
Dimensions 1 1/2 H x 4 9/16 W x 4 D
Mounting Under dash
Features Doubles power of driving device up to 8 watts at 10% THD

ROAD SOUNDS
Road Sounds
 425 7th St., N.W.
 Washington, D.C. 20004

PB-7 Graphic Equalizer/Amplifier
Price \$119.95
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 8 ohms from 20 Hz to 20 kHz with no more than 1% THD
Features Power amp defeat switch; 4-8 ohm impedance; illuminated power meter; 7-band equalizer with ± 12 dB control at center frequencies

PB-3 Graphic Equalizer/Amplifier
Price \$79.95
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 8 ohms from 20 Hz to 20 kHz with no more than 1% THD
Features Front/rear fader; 4-8 ohm impedance; 3-band equalizer with ± 12 dB control at center frequencies

PB-2 Graphic Equalizer/Amplifier
Price \$69.95
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 8 ohms from 20 Hz to 20 kHz with no more than 1% THD
Features Bass and treble controls; 4-8 ohm impedance

ROYAL SOUND
Royal Sound Co. Inc.
 248 Buffalo Ave.
 Freeport, N.Y. 11520

RA-6000
Price \$500
Dimensions 2 4/5 H x 7 15/16 W x 9 9/16 D
Mounting In dash/under dash
Features Fused protection circuit; resettable speaker protection circuit breaker; automatic power control; gold-plated input terminals; heavy-duty push-type positive-lock color-coded speaker output terminals

RC-2000 Preamplifier/Equalizer
Price \$500
Dimensions 2 5/16 H x 7 2/5 W x 6 7/10 D
Features Built-in 7-band equalizer; LED threshold saturation level indicators; fader control; loudness contour; muting control; input sensitivity selector; ambience control; fused protection circuit; two stereo amplifier (front and rear) connections; headphone jack; gold-plated input and output terminals

IA-400
Price \$90
Dimensions 1 21/32 H x 4 23/32 W x 6 1/2 D
Output 40 watts (16 dBW) per channel continuous
Features Automatic power control; LED power indicator high-quality heat-sinks; bass and treble controls

SANYO
Sanyo Electric, Inc.
 1200 W. Artesia Blvd.
 Compton, Calif. 90220

PA-6120
Price \$249.95
Dimensions 3 H x 15 3/8 W x 8 D
Mounting Trunk/under seat

Output 60 watts (17.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD

Features Operates in biamp mode using 4 separate amps or conventionally using woofer amps only; RCA jacks for line level preamp output from some Sanyo models; high-level input jacks for speaker outputs; motorized fader

PA-6060

Price \$199.95

Dimensions 3H x 15 $\frac{3}{8}$ W x 8D

Mounting Trunk/under seat

Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD

Features Operates in biamp mode using 4 separate amps or conventionally using woofer amps only; RCA input jacks for line level preamp output; high-level input jacks for speaker outputs; motorized fader

EQZ-6400 Biamplified Equalizer

Price \$99.95

Dimensions 2H x 7 $\frac{1}{4}$ W x 5D

Mounting Under dash

Features Seven-band equalizer multi-pin connector for high level signals from conventional or biamped speaker outputs; 4 RCA input jacks for line level, conventional or biamped preamp outputs to power amplifiers; 7 center detent slide lever controls with LED "bar graph" meters

EQZ-6200

Preamplifier/Equalizer

Price \$69.95

Dimensions 2H x 6 $\frac{1}{2}$ W x 4 $\frac{3}{4}$ D

Mounting Under dash

Features Built-in 7-band equalizer, 7 frequency center detent slide levers; compatible low and high power speaker outputs; tone defeat switch; -20 dB audio muting; S/N, -80 dB; 0.1% THD

Models also available

PA-6100, \$149.95; PA-6050, \$119.95

SPARKOMATIC Sparkomatic Corp. Routes 6 & 209 Milford, Pa. 18337

GE-500 Graphic Equalizer/Power Booster

Price \$89.95

Dimensions 2H x 6 3/16W x 6 $\frac{1}{2}$ D

Mounting Under dash

Output 20 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD

Features Visual response curve on an illuminated screen; front/rear fader control

LC-100 Amplifier

Price \$89.95

Dimensions 1 $\frac{3}{4}$ H x 5 $\frac{1}{2}$ W x 6 $\frac{3}{8}$ D

Mounting Under dash

Output 15 watts (11.75 dBW) per channel continuous into 3 ohms from 20 Hz to 20 kHz with no more than 1% THD

Features Bass and treble boost and cut; sold with 10 oz. 6" x 9" coaxial speakers

LC-50 Power Booster

Price \$29.95

Dimensions 1 $\frac{3}{4}$ H x 4W x 5D

Mounting Under dash

Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD

Models also available

LC-101 Amplifier, \$49.95

SPECO SPECO Div. Components Specialties, Inc. 1172 Route 109 Lindenhurst, N.Y. 11757

EPB-40 Graphic Equalizer/Power Booster

Price \$124.95

Dimensions 1 $\frac{3}{4}$ H x 4 $\frac{3}{8}$ W x 6D

Mounting Under dash

Output 20 watts (13 dBW) per channel continuous into 4 to 8 ohms from 30 Hz to 15 kHz

Features Five-band equalizer (\pm 12 dB at 60 Hz, 250 Hz, 1 kHz, 3.5 kHz, and 10 kHz); fader control

SPB-40 Power Booster

Price \$63.75

Dimensions 1 $\frac{5}{8}$ D x 4 5/16W x 5 $\frac{3}{4}$ D

Mounting Under dash

Output 20 watts (13 dBW) per channel continuous into 4 to 8 ohms from 100 Hz to 10 kHz

Features Automatic "power off" switch; couples to any car stereo radio or tape player

Models also available

SPB-20 Power Booster, \$49.95

TENNA

Tenna Corp. 19201 Cranwood Parkway Cleveland, Ohio 44128

PA-3021DF

Price \$159.95

Dimensions 1 15/16H x 6 $\frac{7}{8}$ W x 8 $\frac{1}{2}$ D

Mounting Under dash

Output 40 watts (16 dBW) per channel continuous into 8 ohms from 30 Hz to 20 kHz with no more than 10% THD; 20 watts (13 dBW) at less than 0.5% THD

Features Dual fade (front to rear, left to right); floating ground input; on/off switch; two-year warranty

PA-3020EF Amplifier/Equalizer

Price \$109.95

Dimensions 1 15/16H x 6W x 6 $\frac{1}{2}$ D

Mounting Under dash

Output 20 watts (13 dBW) per channel rms continuous into 8 ohms from 30 Hz to 20 kHz with no more than 10% THD; 10 watts (10 dBW) at no more than 0.5% THD

Features Five-band equalizer; front-to-rear fader; floating ground input; on/off switch; two-year warranty

VERTRONIX

Vertronix, Inc. Box 907 Evergreen, Colo. 80439

V-1000 Amplifier

Price \$199

Dimensions 2 $\frac{3}{4}$ H x 7 $\frac{1}{2}$ W x 7 $\frac{1}{2}$ D

Mounting Under dash

Output 50 watts (17 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.2% THD

Features "PWM" power supply; DC to 100 kHz power bandwidth; thermal and current protected; high-speed design

VQ-350 Graphic Equalizer/Preamplifier

Price \$149

Dimensions 2H x 5W x 3D

Mounting Under dash

Features Electronic fader; 3-band equalizer with \pm 19 dB control; 20 Hz to 20 kHz response with no more than 0.5% THD

Models also available

V-700 Amplifier, \$169

VISONIK HI FI Visonik of America, Inc. 701 Heinz Ave. Berkeley, Calif. 94710

AS-1000 Subwoofer Amplifier System

Price \$400 (with W-600 subwoofer)

Dimensions 8H x 10W x 2 $\frac{1}{2}$ D

Mounting Under dash

Output 35 watts (15.5 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.25% THD; subwoofer channel 70W (18.5 dBW)

Features Bi-amplified; sold only with W-600 subwoofer

A-301 Amplifier

Price \$150

Dimensions 6 $\frac{1}{2}$ H x 8W x 2 $\frac{1}{2}$ D

Output 30 watts (14.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.25% THD

Features High and low level inputs; OCL direct-coupled output

PA-1 Preamplifier

Price \$125

Dimensions 1 $\frac{1}{2}$ H x 6 $\frac{7}{8}$ W x 4 $\frac{1}{2}$ D

Mounting Under dash

Features Two inputs; bass, midrange, and treble controls

ZAPCO

Zeff Advanced Products Co. 5018 Paradise Road Modesto, Calif. 95351

150LA Amplifier

Price \$380

Output 70 watts (18.5 dBW) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 0.07% THD

Features Low-distortion circuitry

PEQ Graphic Equalizer/Preamplifier

Price \$250

Dimensions 1H x 4W x 8D

Mounting Under dash

Features Eighteen-band equalizer; 20 Hz to 20 kHz response with no more than 0.03% THD

Models also available

150L Amplifier, \$320

Speaker Systems & Separate Speakers

ADS Analog & Digital Systems One Progress Way Wilmington, Mass. 01887

L-300i

Price \$118
Dimensions 8½H x 5 7/10W x 3D (1½" above surface; 1½" below surface)
Configuration 2-Way
Response 50 Hz to 20 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
Min power 10 watts (10 dBW)
Max power 100 watts (20 dBW)
Impedance 4 ohms
Driver size 1" soft-dome tweeter; 5¼" woofer
Mounting Flush

AFS/KRIKET Acoustic Fiber Sound Systems, Inc. 8050 Castleway Drive Indianapolis, Ind. 46250

6099

Price \$80 each
Dimensions 5¾H x 11W x 9½D
Configuration 2-way
Response 50 Hz to 20 kHz, ±5 dB re 87 dB SPL at 1 meter at 1 watt
Min power 2 watts
Max power 40 watts
Impedance 4 to 8 ohms
Driver size 5¼"
Magnet 10 oz.
Mounting Flush or surface

6079

Price \$65
Dimensions 5¾H x 11W x 9¾D
Configuration Coaxial
Response 50 Hz to 18 kHz, ±5 dB re 93 dB SPL at 1 meter at 1 watt
Min power 2 watts (3 dBW)
Max power 36 watts (15.5 dBW)
Impedance 4 to 8 ohms
Driver size 6" x 9"
Magnet 10 oz.
Mounting Flush or surface
Features 1" polycarbonate dome tweeter

6059

Price \$55
Dimensions 5¾H x 11W x 9¾D
Configuration Coaxial
Response 60 Hz to 20 kHz, ±5 dB re 91 dB SPL at 1 meter at 1 watt
Min power 2 watts (3 dBW)
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 5¼"
Magnet 10 oz.
Mounting Flush or surface

8231

Price \$50/kit
Dimensions 5¼W x 2½D
Configuration Dual cone
Response 55 Hz to 15 kHz, ±5 dB re 92 dB SPL at 1 meter at 1 watt
Min power 2 watts (3 dBW)
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 5¼"
Magnet 10 oz.
Mounting Flush

6049

Price \$40
Dimensions 5¾H x 11W x 9¾D
Configuration Dual cone
Response 60 Hz to 15 kHz, ±5 dB re 90 dB SPL at 1 meter at 1 watt
Min power 2 watts (3 dBW)
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 5¼"
Magnet 10 oz.
Mounting Flush or surface

8972

Price \$85/kit
Dimensions 6¾H x 9W x 3¾D
Configuration Coaxial
Response 40 Hz to 18 kHz, ±5 dB
Min power 2 watts (3 dBW)
Max power 40 watts (16 dBW)
Impedance 4 to 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush

8232

Price \$70/kit
Dimensions 5¼W x 2½D
Configuration Coaxial
Response 55 Hz to 17.5 kHz, ±5 dB re 92 dB SPL at 1 meter at 1 watt
Min power 2 watts (3 dBW)
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 5¼"
Magnet 10 oz.
Mounting Flush

8931

Price \$55/kit
Dimensions 6¾H x 9¾W x 3¼D
Configuration Dual cone
Response 45 Hz to 15 kHz
Min power 2 watts (3 dBW)
Max power 35 watts (15.5 dBW)
Impedance 4 to 8 ohms
Driver size 6" x 9"
Magnet 10 oz.
Mounting Flush

2732

Price \$28
Dimensions 5H x 7¼W x 2½D
Configuration Coaxial
Response 60 Hz to 18 kHz, ±5 dB re 95 dB SPL at 1 meter at 1 watt
Min power 2 watts (3 dBW)
Max power 25 watts (14 dBW)
Impedance 8 ohms
Driver size 5" x 7"
Magnet 10 oz.
Mounting Flush

7311

Price \$9
Dimensions 3½H x 3½W x 1¾D
Configuration Dual cone
Response 80 Hz to 15 kHz, ±5 dB re 89 dB SPL at 1 meter at 1 watt
Min power 2 watts (3 dBW)
Max power 15 watts (11.75 dBW)

Impedance 8 ohms
Driver size 3½" x 3½"
Magnet 3 oz.
Mounting Flush

Models also available

8974, \$110/kit; 6069, \$50; 8932, \$65/kit; 8531, \$50/kit

ALTUS

Altus Corp.
6 Main St.
Melrose, Mass. 02176

SK-5696 Powersonic

Price \$116.95
Configuration 3-way
Response 50 Hz to 20 kHz
Max power 50 watts (17 dBW)
Impedance 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush
Features Foam-roll suspension; 1½" voice coil

SK-6595 Powersonic

Price \$86.95
Configuration 2-way coaxial
Response 50 Hz to 20 kHz
Max power 25 watts (14 dBW)
Impedance 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush
Features Foam roll suspension

SK-6292 Powersonic

Price \$59.95
Configuration 2-Way Coaxial
Response 100 Hz to 18 kHz
Max power 25 watts (14 dBW)
Impedance 8 ohms
Driver size 4"
Magnet 10 oz.
Mounting Flush

Models also available

SK-6393 Powersonic, \$66.95

AMERICAN ACOUSTIC LABS All Speaker Systems 629 W. Cermak Road Chicago, Ill. 60616

Micro 100B

Price \$110
Dimensions 7¾H x 4¾W x 4 9/16D
Configuration 2-way
Response 50 Hz to 20 kHz, re 84 dB SPL at 1 meter at 1 watt
Min power 5 watts (7 dBW)
Max power 50 watts (17 dBW)
Impedance 4 ohms
Driver size 4" woofer; 1" tweeter
Mounting Surface
Features 5-year warranty

AUDIOTEX

GC Electronics
400 South Wyman
Rockford, Ill. 61101

30-5121

Price \$99.50/pr.
Dimensions 7½H x 4¾W x 4¾D
Configuration 2-way
Response 55 Hz to 20 kHz
Max power 25 watts (14 dBW)

Impedance 4 to 8 ohms
Driver size 4" woofer
Mounting Surface
Features Home and auto mini speaker system; mounting bracket included

30-2648

Price \$91.95
Configuration 3-way
Response 70 Hz to 20 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 4" x 10"
Magnet 20 oz.
Mounting Flush
Features Includes 2 speakers, grilles, wiring, and hardware

30-5120

Price \$61.50
Dimensions 7¼H x 4 ¾W x 4½D
Configuration 2-way
Response 70 Hz to 22 kHz
Max power 30 watts (14.75 dBW)
Impedance 4 to 8 ohms
Driver size 4" woofer
Mounting Surface
Features Home and auto mini speaker system

30-2646

Price \$53.45
Configuration Dual cone
Response 70 Hz to 16 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 4" x 10"
Magnet 20 oz.
Mounting Flush
Features Includes 32 speakers, grilles, wiring, and hardware

30-3072

Price \$38.70
Configuration 2-way
Response 40 Hz to 18 kHz
Max power 35 watts (15.5 dBW)
Impedance 4 to 8 ohms
Driver size 6" x 9"
Magnet 25 oz.
Mounting Flush
Features Also available as 30-2654, which includes 2 speakers, grilles, wiring, and hardware

30-3066

Price \$31.75
Configuration 2-way
Response 50 Hz to 20 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 5¼" (round)
Magnet 20 oz.
Mounting Flush
Features Also available as 30-2644, which includes 2 speakers, grilles, wiring, and hardware

30-3070

Price \$27.40
Configuration 2-way
Response 50 Hz to 18 kHz
Max power 20 watts (13 dBW)
Impedance 4 to 8 ohms
Driver size 6" x 9"
Magnet 10 oz.
Mounting Flush
Features Also available as 30-2652, which includes 2 speakers, grilles, wiring, and hardware

30-3065

Price \$22.10
Configuration Dual cone

Response 50 Hz to 16 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 5¼" (round)
Magnet 20 oz.
Mounting Flush
Features Also available as 30-2642, which includes 2 speakers, grilles, wiring, and hardware

30-3053

Price \$18.60
Configuration Dual cone
Response 50 Hz to 10 kHz
Max power 20 watts (13 dBW)
Impedance 4 to 8 ohms
Driver size 6" x 9"
Magnet 10 oz.
Mounting Flush
Features Also available as 30-2650, which includes 2 speakers, grilles, wiring, and hardware

30-3047

Price \$17.70
Configuration Dual cone
Response 50 Hz to 14 kHz
Max power 15 watts (11.75 dBW)
Impedance 4 to 8 ohms
Driver size 5" x 7"
Magnet 10 oz.
Mounting Flush

30-3056

Price \$17.35
Configuration Dual cone
Response 60 Hz to 14 kHz
Max power 15 watts (11.75 dBW)
Impedance 4 to 8 ohms
Driver size 4" x 10"
Magnet 10 oz.
Mounting Flush

30-3063

Price \$16.15
Configuration Dual cone
Response 60 Hz to 15 kHz
Max power 16 watts (12 dBW)
Impedance 4 to 8 ohms
Driver size 5¼" (round)
Magnet 5.5 oz.
Mounting Flush
Features Also available as 30-2640, which includes 2 speakers, grilles, wiring, and hardware

Models also available

30-2647, \$80.55; 30-3074, \$39.10;
30-3071, \$31.20; 30-3054, \$22.10;
30-3064, \$17.70

AVID

Avid Corp.
10 Tripps Lane
East Providence, R.I.
02914

Ten

Price \$200/pr.
Dimensions 1 9/16H x 11 ¾W x 7 ¾D
Configuration 2-way (5 kHz crossover)
Response 60 Hz to 20 kHz, ±5 dB
Min power 5 watts (7 dBW)
Max power 100 watts (20 dBW)
Impedance 4 ohms
Driver size 6½" woofer; 1" soft-dome tweeter
Magnet 20 oz. (woofer); 10 oz. (tweeter)
Mounting Surface
Features Two-way rear-deck design, limited 5-year warranty; comes complete with wiring, also available as Avid Ten Plus System (RD-5) with 4½" door units, \$250

BIG ROCK
Olson Electronics
260 S. Forge St.
Akron, Ohio 44327

SP-470

Price \$89.98
Dimensions 9H x 6W x 4D
Configuration 3-Way
Response 25 Hz to 18 kHz
Min power 4 watts (6 dBW)
Max power 50 watts (17 dBW)
Impedance 8 ohms
Driver size 6" x 9"
Magnet 30 oz.
Mounting Flush
Features Two 1½" tweeters; 2½" midrange each speaker; matching ABS grilles; cloth roll air suspension speaker, all mounting hardware and wire included; 27 more models

SP-389

Price \$35
Dimensions 9H x 6W x 4D
Configuration 2-way
Response 25 Hz to 30 kHz
Min power 4 watts (6 dBW)
Max power 40 watts (16 dBW)
Impedance 8 ohms
Driver size 6" x 9"
Magnet 30 oz.
Mounting Flush
Features 3" tweeter; 1½" copper voice coil; foam-roll suspension

SP-513

Price \$24.98
Dimensions 10H x 4W x 2¾D
Configuration 2-way
Response 50 Hz to 17 kHz
Min power 2 watts (3 dBW)
Max power 20 watts (13 dBW)
Impedance 8 ohms
Driver size 4" x 10" (2" tweeter)
Magnet 20 oz.
Mounting Flush
Features 1-inch voice coil

SP-387

Price \$19.98
Dimensions 2½H x 5¼W x 5¼D
Configuration 2-way
Response 50 Hz to 12 kHz
Min power 1.5 watts (0.25 dBW)
Max power 20 watts (13 dBW)
Impedance 8 ohms
Driver size 5¼"
Magnet 16 oz.
Mounting Flush
Features 1-inch high temperature voice coil; foam suspension cone

Models also available

SP-516, \$28.98; SP-388, \$26

BLAUPUNKT

Robert Bosch Corp.
2800 S. 25th Ave.
Broadview, Ill. 60153

687 000

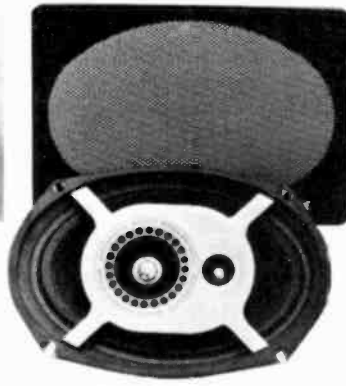
Price \$120/pr.
Dimensions 5½H x 5½W x 2¾D
Configuration 2-Way
Response 80 Hz to 16 kHz
Min power 15 watts (11.75 dBW)
Max power 25 watts (14 dBW)
Impedance 4 ohms
Mounting Flush



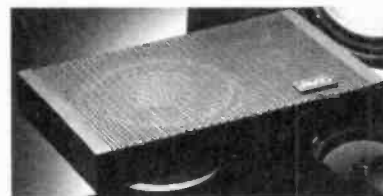
ADS 3001



AFS/Kriket 7311



Altus SK-6696



Avid Model Ten

639 000

Price \$71.40
Dimensions 7¼H x 5½W x 5¾D
Configuration 2-way
Response 70 Hz to 20 kHz
Min power 15 watts (11.75 dBW)
Max power 25 watts (14 dBW)
Impedance 4 ohms
Mounting Surface

676 000

Price \$71.40
Dimensions 5½H x 8¼W x 1¾D
Configuration 2-way
Response 70 Hz to 20 kHz
Min power 15 watts (11.75 dBW)
Max power 25 watts (14 dBW)
Impedance 4 ohms
Features Flush unique under-deck acoustic chamber

721 000

Price \$41.40
Dimensions 6¼H x 5½W x 5¾D
Configuration Air suspension
Response 70 Hz to 15 kHz
Max power 25 watts (14 dBW)
Impedance 4 ohms
Mounting Surface

728 000

Price N/A
Dimensions 6¾H x 9¾W x 3¾D
Configuration 3-way
Response 40 Hz to 20 kHz
Min power 15 watts (11.75 dBW)
Max power 40 watts (16 dBW)
Impedance 4 ohms
Mounting Flush

725 060

Price N/A
Configuration Dual cone
Response 80 Hz to 15 kHz
Min power 15 watts (11.75 dBW)
Max power 25 watts (14 dBW)
Impedance 4 ohms
Driver size 6¾"
Mounting Flush

Models also available

688 000, \$134.25/pr.; 724 060, \$34.30

BOMAN

Boman Industries
9300 Hall Road
Downey, Calif. 90241

SK-4000GL

Price \$159.95/pr.

Min power 35 watts (15.5 dBW)
Impedance 4 ohms
Driver size 6" woofer; 3" midrange; 1" tweeter horn; 1" dome tweeter
Magnet 40 oz.
Features Built-in audio spectrum diffuser; built-in high- and mid-frequency equalizer attenuation control

SK-410TR40GL

Price \$79.95/pr.
Configuration 3-way Trisonic
Min power 25 watts (14 dBW)
Impedance 4 ohms
Driver size 4" x 10" woofer; 2" midrange; 1" tweeter horn
Magnet 40 oz.
Mounting Flush

SK-525TR40GL

Price \$74.95/pr.
Configuration 3-Way Trisonic
Min power 25 watts (14 dBW)
Impedance 4 ohms
Driver size 6" woofer; 3" midrange; 2" tweeter horn
Magnet 40 oz.
Mounting Flush
Features Same as Model SK-69TR40GL

SK-1020CX20GL

Price \$59.95/pr.
Configuration Coaxial
Min power 25 watts (14 dBW)
Impedance 4 ohms
Driver size 6" woofer; 2" tweeter horn
Magnet 40 oz.

SK-69CX 20GL

Price \$59.95/pr.
Configuration 2-Way Coaxial
Min power 25 watts (14 dBW)
Impedance 4 ohms
Driver size 6" x 9" woofer; 3" tweeter horn
Magnet 40 oz.
Mounting Flush
Features Same as Model SK-69TR40GL

SK-525CX20GL

Price \$49.95/pr.
Configuration 2-way coaxial
Min power 25 watts (14 dBW)
Impedance 4 ohms
Driver size 6" woofer; 2" tweeter horn
Magnet 40 oz.
Mounting Flush

SK-680N

Price \$34.95/pr.

Min power 12 watts (10.75 dBW)
Impedance 4 ohms
Driver size 6" woofer; 2" tweeter
Magnet 24 oz.
Mounting Flush
Features Audio reflective grille with built-in spectrum diffuser

SK-1010N

Price \$32.95/pr.
Min power 10 watts (10 dBW)
Impedance 4 ohms
Driver size 5" woofer
Magnet 20 oz.
Features Audio reflective grille

SK-450N

Price \$22.95/pr.
Min power 6 watts (7.75 dBW)
Impedance 4 ohms
Driver size 4" woofer
Magnet 6 oz.
Mounting Flush
Features Same as Model SK-680N

SK-75N

Price \$22.95/pr.
Min power 8 watts (9 dBW)
Impedance 4 ohms
Driver size 5" woofer
Magnet 6 oz.
Features Same as Model SK-1010N

SK-550N

Price \$14.95/pr.
Min power 8 watts (9 dBW)
Impedance 4 ohms
Driver size 5" woofer
Magnet 5 oz.
Mounting Flush
Features Same as Model SK-1010N

Models also available

SK-69TR40GL, \$79.95/pr.; SK-410CX20GL, \$59.95/pr.; SK-690N, \$34.95/pr.; SK-660N, \$26.95/pr.; SK-650N, \$21.95/pr.

BOSE

Bose Corp.
100 The Mountain Road
Framingham, Mass. 01701

1401 Car Stereo System

Price \$299.90
Dimensions 1½H x 10W x 4½D (equalizer)
Configuration Full-range with active electronic equalizer
Min power 0.25 watts (-6 dBW)
Max power 25 watts (14 dBW)
Impedance 0.45 ohms

Driver size 4½"
Magnet 9.1 oz.
Mounting Flush
Features Speaker and booster/equalizer system; equalizer mounted under dash; output of equalizer: 50 watts (17 dBW) per channel continuous into 0.45 ohms from 40 Hz to 17 kHz with no more than 0.09% THD

BRAUN

Adcom

11A Jules Lane
 New Brunswick, N.J. 08901

Output C

Price \$279/pr. (with brackets)
Dimensions 6¾H x 4¼W x 4¾D
Configuration 2-way
Response 50 Hz to 25 kHz
Min power 10 watts (10 dBW)
Max power 35/50 watts (15.5/17 dBW)
Impedance 4 ohms
Driver size 4" woofer; 1" dome tweeter
Magnet 18 oz. (woofer)
Mounting Surface
Features Original mini speaker from Braun; aluminum cabinet 5mm. thick; crossover at 1,500 Hz., 12 dB per octave; employs long-throw woofer and computer-calculated crossover network; bracket allows maximum flexibility in mounting; padded rubber edging acts as cushion

CANTON

Adcom

11A Jules Lane
 New Brunswick, N.J. 08901

AC-200

Price \$300
Dimensions 4 2/5H x 7 3/5W x 5¾D
Configuration Powered, biamplified two-way system

Response 48 Hz to 25 kHz
Driver size 4 1/3" woofer; 9/10" dome tweeter
Mounting Surface
Features Designed to run off car stereo speaker output; can also be operated with low level source such as a preamplifier; active crossover at 1.7 kHz; 20-watt amplifier for the woofer; 5-watt amp for the tweeter; woofer amp is a bridge switching amp with direct coupling; S/N: 78 dB; THD: 0.03% at 20 watts, 40 Hz to 2 kHz; high frequency amp is a single amp with S/N, 74 dB; THD 0.5% at 5 watts, 1.5 kHz to 12.5 kHz; crossover at 12 dB per octave; input voltages: 3V to 60 ohms or 300 mV to 50 ohms for full modulation; ground interference suppression: 45 dB; enclosure made of die-cast aluminum, finished in black

HC-100

Price \$190/pr.
Dimensions 4 2/5H x 7 3/5W x 5¾D
Configuration 2-way
Response 48 Hz to 30 kHz
Min power 5 watts (7 dBW)
Max power 40/60 watts (16/17.75 dBW)
Impedance 4 ohms
Driver size 4 1/3" woofer; ¾" tweeter
Mounting Surface

Features Grille sloped at 28-degree angle; enclosure made of die cast aluminum; available in black, bronze, and metallic silver; crossover at 1.7 kHz; angle of dispersion is greater than 125 degrees

CAR-FI

Car-Fi International
 152 W. Cypress Ave.
 Burbank, Calif. 91502

CS-4

Price \$239.97
Dimensions 6H x 9W x 4D
Configuration 3-way
Response 40 Hz to 30 kHz, ±2 dB re 93 dB SPL at 1 meter at 1 watt
 4 watts (6 dBW)
Min power 4 ohms
Max power 50 watts (17 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 30 oz.
Mounting Flush or surface
Features Samarium cobalt tweeter; soft-dome midrange; biamp compatible

CS-3

Price \$149.95
Dimensions 6H x 9W x 4D
Configuration 2-way
Response 40 Hz to 20 kHz, ±2 dB re 94 dB SPL at 1 meter at 1 watt
 4 watts (6 dBW)
Min power 4 ohms
Max power 50 watts (17 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 30 oz.
Mounting Flush or surface
Features Soft-dome tweeter; biamp compatible

CS-1

Price \$89.95
Dimensions 6H x 9W x 4D
Configuration Woofer
Response 40 Hz to 2 kHz, ±2 dB re 94 dB SPL at 1 meter at 1 watt
 4 watts (6 dBW)
Min power 4 ohms
Max power 45 watts (16.5 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 30 oz.
Mounting Flush or surface

Models also available

CS-2, \$129.95

CLARION

Clarion Corp. of America
 5500 Rosecrans Ave.
 Laundale, Calif. 91260

SK-103

Price \$175
Dimensions 5H x 13W x 2D
Configuration 3-way
Response 60 Hz to 20 kHz, ±3 dB
Max power 30 watts (14.75 dBW)
Impedance 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush

SK-102

Price \$157
Dimensions 7H x 13W x 2½D
Configuration 3-way
Response 60 Hz to 20 kHz, ±3 dB
Max power 25 watt (14 dBW)
Impedance 8 ohms
Driver size 4" x 10"
Magnet 10 oz.
Mounting Flush
Features Rear-deck mounting for "A" body cars (Cutlass Regal, Monte Carlo, etc.), door mounting for domestic and import cars, vans, and pick-up trucks

SK-99B

Price \$137
Dimensions 6¾H x 10W x 1¾D
Configuration 3-way
Response 100 Hz to 20 kHz, ±3 dB

Max power 25 watts (14 dBW)
Impedance 8 ohms
Driver size 5¼"
Magnet 20 oz.
Mounting Flush

SK-105

Price \$70
Dimensions 3½H x 5W x 1D
Configuration 2-way tweeter/midrange
Response 100 Hz to 16 kHz, ±5 dB re 95 dB SPL at 1 meter at 1 watt (when used with SK-106 woofer)
Min power 25 watts (14 dBW)
Max power 50 watts (17 dBW)
Impedance 8 ohms
Driver size 3" midrange; 1" tweeter
Mounting Surface
Features To be used with SK-106 woofer; adjustable level control; Mylar capacitor crossover

Models also available

SK-106, \$70

EPI

Epicure Products, Inc.

One Charles St.
 Newburyport, Mass. 01950

LS-70

Price \$150/pr.
Dimensions 10¼H x 7W x 3½D
Configuration 2-way
Response 70 Hz to 20 kHz, ±3 dB re 87 dB SPL at 1 meter at 1 watt
Min power 12 watts (10.75 dBW)
Max power 60 watts (17.75 dBW)
Impedance 8 ohms
Driver size 6" woofer, 1" tweeter
Magnet 24 oz. (18 oz. woofer; 6 oz. tweeter)
Mounting Flush or surface
Features Individually-run frequency-response graph supplied with each unit; can be mounted in 6" x 9" cutout or in 5" or 4" cutout with optional adapters

Companion Speaker System (CSS) LS 35 Speaker and LCS Level Control System

Price \$75
Dimensions 3½W x 1¾D
Configuration Full range
Min power 12 watts (10.75 dBW)
Max power 60 watts (17.75 dBW)
Impedance 8 ohms
Driver size 3½"
Mounting Flush
Features LCS controls balance of four speaker system; L-pad attenuators maintain constant system impedance; LS-35 requires 3½" cut out and 1¾" clearance behind mounting surface

FOSGATE

Fosgate Electronics, Inc.
 2935 West Fairmount Ave.
 Phoenix, Ariz. 85017

PRS-690

Price \$120
Dimensions 6H x 9W
Configuration 2-way
Response 35 Hz to 16 kHz, ±6 dB
Min power 20 watts (13 dBW)
Max power 50 watts (17 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush

PRS-500

Price \$100
 Dimensions 5¼" (round)
 Configuration 2-way
 Response 35 Hz to 20 kHz, ±3 dB at 1 meter at 1 watt
 Min power 20 watts (13 dBW)
 Max power 50 watts (17 dBW)
 Impedance 4 ohms
 Driver size 5¼"
 Magnet 10 oz.
 Mounting Flush

FULTRON

Arthur Fulmer
 260 Monroe
 Memphis, Tenn. 38101

15-9260

Price \$149.95
 Dimensions 6½D
 Configuration 2-way
 Max power 45 watts (16.5 dBW)
 Impedance 4 or 8 ohms
 Mounting Surface
 Features Die-cast aluminium housing with brilliance control

15-9696

Price \$79.95
 Dimensions 6H x 9W x 3¾D
 Configuration 4-way
 Max power 30 watts (14.75 dBW)
 Impedance 4 or 8 ohms
 Magnet 30 oz.
 Mounting Flush
 Features Aluminium voice coil; deluxe quick-mount mesh grille

15-9690

Price \$60
 Dimensions 6H x 9W x 3¾D
 Configuration 3-way
 Response 20 Hz to 16 kHz
 Max power 25 watts (14 dBW)
 Impedance 4 or 8 ohms
 Driver size 6" x 9"
 Magnet 20 oz.
 Mounting Flush
 Features Aluminum voice coil; deluxe mesh grille

15-9670

Price \$49.95
 Dimensions 3½D
 Max power 25 watts (14 dBW)
 Impedance 4 or 8 ohms
 Magnet 20 oz.
 Mounting Flush
 Features Aluminium voice coil; deluxe quick-mount mesh grille

15-9470

Price \$46.95
 Dimensions 2¾D
 Max power 25 watts (14 dBW)
 Impedance 4 or 8 ohms
 Magnet 20 oz.
 Mounting Flush
 Features Aluminum voice coil; deluxe quick-mount mesh grille

Models also available

15-9665, \$99.95; 15-9490, \$55

GRUNDIG

LAS Electronics East, Inc.
 85C Saratoga Blvd.
 Island Park, N.Y. 11558

Kosack

Price \$98
 Max power 30 watts (14.75 dBW)
 Impedance 4 ohms
 Driver size 4½" woofer; 2" tweeter

Cross/Top 1-6

Price \$60

HF-2040

Price \$110/pr.
 Dimensions 4¾H x 9¾W x 4½D
 Configuration 2-way
 Response 30 Hz to 20 kHz
 Min power 20 watts (13 dBW) (nominal)
 Max power 40 watts (16 dBW)
 Impedance 4 ohms
 Driver size 4½" woofer; 2" cone tweeter

HF-2025

Price \$75/pr.
 Response 30 Hz to 20 kHz
 Max power 40 watts (16 dBW)
 Impedance 4 ohms
 Driver size 4½"

HANDIC

Handic U.S.A., Inc.
 15945 N.W. 57th Ave.
 Hialeah, Fla. 33014

CL-225

Price \$130
 Dimensions 4½H x 9¾W x 4¾D
 Configuration 2-way
 Response 40 Hz to 20 kHz
 Min power 1 watt
 Max power 40 watts
 Impedance 4 ohms
 Mounting Surface
 Features Sealed; air suspension

CL-12

Price \$29.95
 Dimensions 4¾ x 2D
 Response 100 Hz to 20 kHz, ±3.0 dB
 Min power ½ watt (-3 dBW)
 Max power 12 watts (10.75 dBW)
 Impedance 4 ohms
 Magnet 6 oz.
 Mounting Flush
 Features Screw-in type mounting; door speakers

HED

Cerwin-Vega, Inc.
 12250 Montague St.
 Arleta, Calif. 91331

CS-15

Price \$130/pr.
 Dimensions 6½H x 9W x 3½D
 Configuration 2-way
 Response 40 Hz to 20 kHz, ±4 dB re 95 dB SPL at 1 meter at 1 watt
 Min power 2 watts (3 dBW)
 Max power 75 watts (18.75 dBW)
 Impedance 4 ohms
 Driver size 6" x 9"
 Magnet 80 oz.
 Mounting Flush
 Features High-efficiency

CS-10

Price \$115/pr.
 Dimensions 6½H x 9½W x 4D
 Configuration 2-way
 Response 40 Hz to 16 kHz, ±4 dB re 95 dB SPL at 1 meter at 1 watt

Min power 2 watts (3 dBW)
 Max power 60 watts (17.75 dBW)
 Impedance 4 ohms
 Driver size 6" x 9"
 Magnet 91 oz.
 Mounting Flush
 Features High-efficiency

CS-7

Price \$90/pr.
 Dimensions 6½H x 9½W x 3D
 Configuration 2-way
 Response 50 Hz to 16 kHz, ±4 dB re 96 dB SPL at 1 meter at 1 watt
 Min power 2 watts (3 dBW)
 Max power 40 watts (16 dBW)
 Impedance 4 ohms
 Driver size 6" x 9"
 Magnet 36.8 oz.
 Mounting Flush
 Features High-efficiency

INFINITY

Infinity Systems, Inc.
 7930 Deering Ave.
 Canoga Park, Calif. 91304

Infinitesimal

Price \$184
 Dimensions 11H x 6¼W x 5¼D
 Configuration 2-way
 Response 65 Hz to 32 kHz, ±2 dB
 Min power 10 watts (10 dBW)
 Max power 65 watts (18.25 dBW)
 Impedance 4 ohms
 Mounting Surface
 Features EMIT[®] (Electromagnetic Induction) tweeter; 5-inch Watkins-Infinity polypropylene woofer; optional brackets for horizontal or vertical mounting; can also be used as speaker in the home

JBL

James B. Lansing Sound, Inc.
 8500 Balboa Blvd.
 Northridge, Calif. 91329

A-30

Price \$219.95/pr.
 Configuration 2-way
 Response 30 Hz to 15 kHz
 Max power 40 watts (16 dBW)
 Impedance 4 ohms
 Driver size 6" x 9" cone
 Magnet 20 oz. (cast frame)
 Features Piezoelectric tweeter

A-15

Price \$179.95/pr.
 Configuration 2-way
 Response 40 Hz to 15 kHz
 Max power 30 watts (14.75 dBW)
 Impedance 4 ohms
 Driver size 5¼" cone
 Magnet 14 oz. (cast frame)
 Features Piezoelectric tweeter

JENSEN

Jensen Sound Laboratories
 4136 North United Parkway
 Schiller Park, Ill. 60176

J1001

Price \$160
 Configuration 3-way (separate speakers)
 Response 35 Hz to 20 kHz (Total System)
 Max power 35 watts
 Impedance 8 ohms
 Driver size 6" x 9" woofer; 6" x 3½" midrange; 6" x 2" tweeter

Magnet 20 oz. (woofer); 3 oz. (midrange); 3 oz. (tweeter)
Mounting Flush

C9945

Price \$100
Configuration 3-way
Response 40 Hz to 20 kHz
Max power 30 watts
Impedance 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush

C9991

Price \$100
Configuration 3-way
Response 45 Hz to 20 kHz
Max power 30 watts
Impedance 8 ohms
Driver size 4" x 10"
Magnet 20 oz.
Mounting Flush

C9927

Price \$80
Dimensions 4½H x 7¾W x 5¾D
Configuration 2-way
Response 50 Hz to 15 kHz
Max power 25 watts
Impedance 8 ohms
Driver size 5¼"
Magnet 20 oz.
Mounting Surface

C9994

Price \$70
Configuration 2-Way
Response 45 Hz to 18 kHz
Max power 25 watts
Impedance 8 ohms
Driver size 4 x 10"
Magnet 20 oz.
Mounting Flush

S9943

Price \$70
Configuration 2-way
Response 50 Hz to 15 kHz
Max power 25 watts
Impedance 8 ohms
Driver size 5 x 7"
Magnet 20 oz.
Mounting Flush

C9853

Price \$60
Configuration 2-Way
Response 60 Hz to 15 kHz
Max power 25 watts
Impedance 8 ohms
Driver size 5¼"
Magnet 10 oz.
Mounting Flush

C9851

Price \$55
Configuration 2-Way
Response 70 Hz to 15 kHz
Max power 20 watts
Impedance 8 ohms
Driver size 4"
Magnet 10 oz.
Mounting Flush

C9809

Price \$48
Dimensions 5½H x 7¾W x 6D
Configuration Woofer/whizzer cone
Response 60 Hz to 12 kHz
Max power 25 watts
Impedance 8 ohms
Driver size 5¼"

Magnet 20 oz.
Mounting Surface

C9729

Price \$45
Configuration Woofer/whizzer cone
Response 40 Hz to 14 kHz
Max power 25 watts
Impedance 8 ohms
Driver size 6 x 9"
Magnet 20 oz.
Mounting Flush

C9862

Price \$44
Configuration Woofer/whizzer cone
Response 60 Hz to 12 kHz
Max power 25 watts
Impedance 8 ohms
Driver size 5¼"
Magnet 20 oz.
Mounting Flush

C9728

Price \$40
Configuration Woofer/whizzer cone
Response 40 Hz to 14 kHz
Max power 25 watts
Impedance 8 ohms
Driver size 6 x 9"
Magnet 10 oz.
Mounting Flush

C9860

Price \$39
Configuration Woofer/whizzer cone
Response 70 Hz to 12 kHz
Max power 20 watts
Impedance 8 ohms
Driver size 4"
Magnet 10 oz.
Mounting Flush

Models also available

C9999, \$100; C9740, \$70; C9852, \$68; C9926, \$50; C9997, \$45; C9863, \$39

KRACO

Kraco Enterprises
505 E. Euclid Ave.
Compton, Calif. 90224

VCS-2000

Price \$108
Dimensions 4 9/16H x 7¾W x 4½D
Configuration 2-way
Response 120 Hz to 20 kHz, ±10 dB re 79 dB SPL at 1 meter at 1 watt
Max power 50 watts (17 dBW)
Impedance 8 ohms
Driver size 4"
Magnet 10 oz.
Mounting Surface
Features Variable attenuator in an aluminum die-cast enclosure

TRI-3-410

Price \$89.95
Dimensions 2¾H x 10¼W x 4¾D
Configuration 3-speaker sound system combination
Response 120 Hz to 20 kHz, ±10 dB re 85 dB SPL at 1 meter at 1 watt
Max power 20 watts (13 dBW)
Impedance 8 ohms
Driver size 4¾"
Magnet 12 oz.
Mounting Flush
Features Consists of woofer, direct radiating midrange, tweeter, and 3-position brilliance control

switch; complete with 16-ft. speaker cord, mounting hardware, and installation instruction

CX-410-20

Price \$59.95
Dimensions 3½H x 10W x 4¾D
Configuration 2-Way coaxial
Response 100 Hz to 19 kHz, ±10 dB re 83 dB SPL at 1 meter at 1 watt
Max power 20 watts (13 dBW)
Impedance 8 ohms
Driver size 4" x 10"
Magnet 20 oz.
Mounting Flush
Features Air-suspension speaker with 2-inch tweeters; acoustic foam grille for tone quality; complete with speaker cord, mounting hardware, and installation instruction

Models also available

TRI-469, \$100

LAFAYETTE

Lafayette Electronics
111 Jericho Tpke.
Syosset, N.Y. 11791

Triple Play

Price \$49.99/pr.
Dimensions 6H x 9W
Configuration 3-way
Response 50 Hz to 20 kHz
Max power 30 watts (14.75 dBW)
Impedance 8 ohms
Magnet 20 oz.
Mounting Flush
Features Includes high-impact, heat-resistant grilles

LOVE SOUND

Love Sound, Inc.
2065 Martin Ave. # 113
Santa Clara, Calif. 95050

LS-95

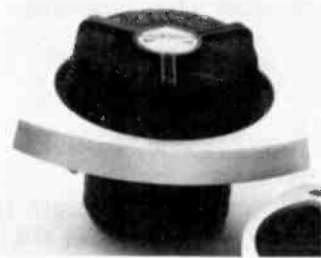
Price \$170
Dimensions 8¾H x 7¼W x 3D
Configuration 2-way
Response 40 Hz to 18 kHz, ±2 dB
Min power 10 watts (10 dBW)
Max power 50 watts (17 dBW)
Impedance 4 ohms
Driver size 6½" woofer; 1" dome tweeter
Magnet 13 oz.
Mounting Flush or Surface
Features Die-cast aluminum mounting baffle; coax mounted tweeter can be removed for separate mounting, with 12 dB/octave crossover network

LS-80

Price \$160
Dimensions 3¾H x 7¼W x 10L
Configuration 2-Way
Response 45 Hz to 20 kHz, ±4 dB
Min power 10 watts (10 dBW)
Max power 80 watts (19 dBW) continuous
Impedance 8 ohms
Driver size 6" woofer; 2" tweeter
Magnet 20 oz.
Mounting Flush/surface
Features Cast-aluminum baffle mounting; surface mount over 6" x 9" or 5 ¼" round hole

LS-40

Price \$135
Dimensions 3H x 6W x 10¾L
Configuration 2-Way
Response 45 Hz to 20 kHz, ±2 dB
Min power 10 watts (10 dBW)



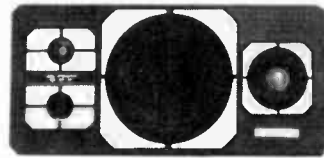
Bose 1401



EPI LS-70



PSB Alpha



Kraco TRI-3-410

Max power 30 watts (14.75 dBW) continuous
Impedance 4 ohms
Driver size 5 1/4" woofer; 2" tweeter
Magnet 13 oz.
Mounting Flush/surface
Features Same as Model LS-80

MARANTZ
Marantz Co., Inc.
20525 Nordhoff St.
Chatsworth, Calif. 91311

SS-5000
Price \$300/pr.
Dimensions 7 9/32H x 11 5/32W x 7 9/32D
 (less mounting bracket)
Configuration 2-way
Response 30 Hz to 20 kHz, (DIN) re 81 dB
 SPL at 1 meter at 1 watt
Min power 15 watts (11.75 dBW)
Max power 250 watts (24 dBW)
Impedance 4 ohms
Driver size 6 1/2" x 1"
Magnet 13 oz.
Mounting Surface

SS-569
Price \$130
Dimensions 9 3/8H x 6 3/8W x 4D
Configuration 5-way
Response 40 Hz to 20 kHz
Max power 30 watts
Impedance 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush

SS-3469
Price \$110
Dimensions 9 3/8H x 6 3/8W x 3 3/8D
Configuration 4-way
Response 40 Hz to 18 kHz
Max power 30 watts
Impedance 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush

SS-3410
Price \$80
Dimensions 10H x 4 1/4W x 2 5/8D
Configuration 2-way
Response 50 Hz to 20 kHz
Max power 20 watts
Impedance 4 ohms
Driver size 4" x 10"
Magnet 10 oz.
Mounting Flush

SS-3357
Price \$100/pr.

Dimensions 7 1/4H x 5W x 3D
Configuration 3-way
Response 90 dB SPL at 1 meter at 1 watt
Min power 10 watts (10 dBW)
Max power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 5" x 7"
Magnet 10 oz.
Mounting Flush
Features Front insertion design with snap-on grille; Strontium-type magnet equivalent to 20 oz. ceramic type

SS-825
Price \$90/pr.
Dimensions 6 1/4W x 2 7/8D
Configuration 3-way
Response 50 Hz to 20 kHz
Max power 25 watts
Impedance 8 ohms
Driver size 6 1/4"
Magnet 20 oz.
Mounting Flush

SS-725
Price \$70/pr.
Dimensions 6 1/4W x 2 7/8D
Configuration 2-way
Response 50 Hz to 16 kHz
Max power 25 watts
Impedance 4 ohms
Driver size 6 1/4"
Magnet 20 oz.
Mounting Flush

SS-269
Price \$70/pr.
Dimensions 9 3/8H x 6 3/8W x 3 3/8D
Configuration 2-way
Response 40 Hz to 15 kHz
Max power 30 watts
Impedance 4 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush

SS-140
Price \$40/pr.
Dimensions 4W x 1 1/8D
Configuration Full-range
Response 60 Hz to 14 kHz
Max power 10 watts
Impedance 4 ohms
Driver size 4"
Magnet 10 oz.
Mounting Flush

Models also available
 SS-5100, \$250/pr.; SS-469,
 \$110/pr.; SS-3269, \$80/pr.; SS-
 169, \$160/pr.

MATRECS
MatreCS Industries
805 Woodman Ave.
Rockford, Ill. 61101

MA-0410-20TP
Price \$109.66
Configuration 3-way
Response 70 Hz to 20 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 4" x 10"
Magnet 20 oz.
Mounting Flush
Features Includes 2 speakers, grilles, wiring, and hardware

MA-0410-20CP
Price \$96.04
Configuration 2-way
Response 70 Hz to 20 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 4" x 10"
Magnet 20 oz.
Mounting Flush
Features Includes 2 speakers, grilles, wiring, and hardware

MA-0410-020P
Price \$63.70
Configuration Dual cone
Response 70 Hz to 16 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 4" x 10"
Magnet 20 oz.
Mounting Flush
Features Includes 2 speakers, grilles, wiring, and hardware

MA-0069-025C
Price \$44.27
Configuration 2-way
Response 40 Hz to 18 kHz
Max power 35 watts (15.5 dBW)
Impedance 4 to 8 ohms
Driver size 6" x 9"
Magnet 25 oz.
Mounting Flush
Features Also available as MA-0069-25CP, which includes 2 speakers, grilles, wiring, and hardware

MA-0069-020G
Price \$36.63
Configuration 2-way
Response 45 Hz to 18 kHz
Max power 25 watts (14 dBW)

Impedance 4 to 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush
Features Also available as MA-0069-20CP, which includes 2 speakers, grilles, wiring, and hardware

MA-0525-020C

Price \$36.56
Configuration 2-way
Response 50 Hz to 20 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 5 1/4" (round)
Magnet 20 oz.
Mounting Flush
Features Also available as MA-0525-20CP, which includes 2 speakers, grilles, wiring, and hardware

MA-0069-0020

Price \$23.40
Configuration Dual cone
Response 40 Hz to 16 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush
Features Also available as MA-0069-020P, which includes 2 speakers, grilles, wiring, and hardware

MA-0525-0020

Price \$22.30
Configuration Dual cone
Response 50 Hz to 16 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 5 1/4" (round)
Magnet 20 oz.
Mounting Flush
Features Also available as MA-0525-020P, which includes 2 speakers, grilles, wiring, and hardware

MA-0410-0010

Price \$20.38
Configuration Dual cone
Response 60 Hz to 14 kHz
Max power 15 watts (11.75 dBW)
Impedance 4 to 8 ohms
Driver size 4" x 10"
Magnet 10 oz.
Mounting Flush

MA-0057-0010

Price \$20.09
Configuration Dual cone
Response 50 Hz to 14 kHz
Max power 15 watts (11.75 dBW)
Impedance 4 to 8 ohms
Driver size 5" x 7"
Magnet 10 oz.
Mounting Flush

MA-0525-0005

Price \$16.80
Configuration Dual cone
Response 60 Hz to 15 kHz
Max power 16 watts (12 dBW)
Impedance 4 to 8 ohms
Driver size 5 1/4" (round)
Magnet 5.5 oz.
Mounting Flush
Features Also available as MA-0525-005P, which includes 2 speakers, grilles, wiring, and hardware

Models also available

MA-0069-10CP, \$75.21; MA-0069-020T, \$43.88; MA-0069-10DV, \$23.79; MA-0069-0010, \$20.90; MA-0525-0010, \$19.18

MITSUBISHI

Mitsubishi Audio Systems
Melco Sales, Inc.
3030 E. Victoria St.
Compton, Calif. 90221

SX-30SA

Price \$149.95
Configuration 2-way
Response 80 Hz to 20 kHz, ± 3 dB
Max power 50 watts (17 dBW)
Impedance 4 ohms
Driver size 4" x 4"
Magnet 65 oz.
Mounting Surface
Features Aluminum die-casting enclosure

SG-69QA

Price \$119.95
Configuration 4-way
Response 50 Hz to 20 kHz, ± 3 dB
Max power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 21 oz.
Mounting Flush

SG-69CA

Price \$79.95
Configuration 2-way
Response 50 Hz to 20 kHz, ± 3 dB
Max power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 21 oz.
Mounting Flush

SG-16CA

Price \$69.95
Configuration 2-way
Response 60 Hz to 20 kHz, ± 3 dB
Max power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 6 1/4" x 6 1/4"
Magnet 6.5 oz.
Mounting Flush

SG-40WA

Price \$54.95
Configuration 1-way dual cone
Response 50 Hz to 20 kHz, ± 3 dB
Max power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 4" x 10"
Magnet 10 oz.
Mounting Flush

SG-13WA

Price \$44.95
Configuration 1-way dual cone
Response 75 Hz to 15 kHz, ± 3 dB
Max power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 5 1/4"
Magnet 6.4 oz.
Mounting Flush

SG-10WA

Price \$39.95
Configuration 1-way dual cone
Response 100 Hz to 17 kHz, ± 3 dB
Max power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 4"
Magnet 5.3 oz.
Mounting Flush

SB-2SA

Price \$34.95
Response 5 kHz to 20 kHz, ± 3 dB
Max power 20 watts (13 dBW)

Impedance 4 ohms
Mounting Surface
Features Supertweeter

Models also available

SX-10BA, \$124.95; SG-69TA, \$99.95; SG-20CA, \$99.95; SG-40CA, \$64.95; SG-69WA, \$49.95; SG-16EA, \$49.95

MOTOROLA

Motorola, Inc.
Automotive Products Div.
1299 E. Algonquin Rd.
Schaumburg, Ill. 60196

M41-20T

Price \$134.95
Dimensions 10H x 4W x 3 3/8D
Configuration 3-way
Response 55 Hz to 16 kHz
Max power 25 watts (14 dBW)
Impedance 6 ohms
Driver size 4" x 10"
Magnet 20 oz.
Mounting Flush
Features 1" voice coil; one-piece ceramic magnet

D69-20T

Price \$119.95/pr.
Dimensions 9H x 6W x 3 3/8D
Configuration 3-way
Response 45 Hz to 18 kHz
Max power 25 watts (14 dBW)
Impedance 6 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush
Features 2.5" midrange; 2" tweeters; one-piece ceramic magnet

M68-15C

Price \$99.95/pr.
Dimensions 8H x 6W x 3 1/2D
Configuration 2-way
Response 55 Hz to 15 kHz
Max power 25 watts (14 dBW)
Impedance 6 ohms
Driver size 6" x 8"
Magnet 13 oz.
Mounting Flush
Features 1" voice coil; one-piece ceramic magnet

D69-20C

Price \$89.95/pr.
Dimensions 9H x 6W x 3 3/8D
Configuration 2-way
Response 45 Hz to 15 kHz
Max power 25 watts (14 dBW)
Impedance 6 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush
Features 1" voice coil; 2" tweeters; one-piece ceramic magnet

D5-20C

Price \$77.95/pr.
Dimensions 5 1/4H x 2 1/2D
Configuration 2-way
Response 65 Hz to 14 kHz
Max power 25 watts (14 dBW)
Impedance 6 ohms
Driver size 5 1/4"
Magnet 20 oz.
Mounting Flush
Features Ceramic magnet; 1" voice coil; 2" tweeters

D5-10C

Price \$66.95/pr.

Dimensions 5¼H x 5¼W x 2¼D
Configuration 2-way
Response 65 Hz to 14 kHz
Max power 20 watts (13 dBW)
Impedance 6 ohms
Driver size 5¼"
Magnet 10 oz.
Mounting Flush
Features 1" voice coil; one-piece ceramic magnet

M4-8C

Price \$49.95/pr.
Dimensions 4H x 4W x 1¾D
Configuration 2-way
Response 80 Hz to 20 kHz
Max power 15 watts (11.75 dBW)
Impedance 6 ohms
Driver size 4"
Magnet 8 oz.
Mounting Flush
Features 1" voice coil; one-piece ceramic magnet

M4-5W

Price \$24.95/pr.
Dimensions 4H x 4W x 1¾D
Configuration Dual cone
Response 85 Hz to 10 kHz
Max power 8 watts (9 dBW)
Impedance 6 ohms
Driver size 4"
Magnet 5 oz.
Mounting Flush
Features ¾" voice coil; one-piece ceramic magnet

Models also available

M68-15T, \$129.95/pr.; M41-20C, \$104.95/pr.; M5-20C, \$94.95/pr.; M5-1DC, \$89.95/pr.; M4-10C, \$74.95/pr.; D3-5W, \$25.95; M5-5W, \$34.95/pr.

PIONEER

Pioneer Electronics of America
1925 E. Dominquez St.
Long Beach, Calif. 90810

TS-X9

Price \$239.95
Configuration 2-way
Response 50 Hz to 22 kHz
Max power 40 watts (16 dBW)
Driver size 3¾" woofer; 1" dome tweeter
Mounting Surface

TS-W203

Price \$189.95
Configuration Woofer
Response 28 Hz to 10 kHz
Max power 60 watts (16.5 dBW)
Driver size 8"
Magnet 20 oz.
Features Fits 6" x 9" opening

TS-696

Price \$139.95
Configuration 2-way
Response 35 Hz to 18 kHz
Max power 40 watts (16 dBW)
Driver size 6" x 9"
Magnet 20 oz. (high efficiency)
Features Crossover frequency at 4 kHz; 2½" midrange

TS-X6

Price \$124.95
Configuration 2-way
Response 80 Hz to 20 kHz
Max power 20 watts (13 dBW)
Driver size 4" woofer; 4" passive radiator; 2½" tweeter
Mounting Surface

TS-167

Price \$82.95
Configuration 2-way coaxial
Response 30 Hz to 20 kHz
Max power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 2" tweeter
Magnet 10 oz.
Mounting Door
Features Tweeter horn built into grille; high-compliance woofer

TS-165

Price \$72.95
Configuration 2-way coaxial
Response 30 Hz to 16 kHz
Max power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 2" tweeter
Magnet 20 oz.
Mounting Door
Features Same as Model TS-167

TS-T3

Price \$69.95
Configuration Tweeter
Response 250 Hz to 20 kHz
Max power 60 watts (17.75 dBW)
Driver size 3½"
Magnet 6.5 oz.
Mounting Flush
Features Built-in crossover network

TS-164

Price \$59.95
Configuration 2-way coaxial
Response 40 Hz to 16 kHz
Max power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 2" tweeter
Magnet 10 oz.
Mounting Door
Features Same as Model TS-167

TS-M2

Price \$54.95
Configuration Tweeter
Response 450 Hz to 20 kHz
Max power 20 watts (13 dBW)
Mounting Dash
Features Adapts to any car system; adjustable level controls

TS-35

Price \$47.95
Response 80 Hz to 13 kHz
Max power 40 watts (16 dBW)
Mounting Flush or surface

TS-120

Price \$40.95
Response 80 Hz to 16 kHz
Max power 8 watts (9 dBW)
Impedance 4 ohms
Mounting Door
Features Thin design

Models also available

TS-202, \$219.00; TS-695, \$159.95; TS-168, \$139.95; TS-694, \$95.95; TS-693, \$81.95; TS-692, \$73.95; TS-691, \$59.95; TS-162DX, \$59.95; TS-121, \$51.95; TS-160, \$41.95; TS-5, \$29.95

POWER DRIVE

Recoton Corp.
46-23 Crane St.
Long Island City, N.Y. 11101

CS-265

Price \$64.95
Configuration 2-way
Response 40 Hz to 16 kHz

Max power 30 watts (14.75 dBW)
Impedance 8 ohms
Driver size 6½" air-suspension woofer; aluminium dome tweeter
Magnet 20 oz.
Mounting Flush
Features Wire mesh grilles, hardware, speaker wire included

PSB

PSB Speakers, Inc.
P.O. Box 144
St. Jacobs, Ontario
Canada, N0B 2N0

PSB Alpha

Price \$110
Dimensions 4H x 8W x 5D
Configuration 2-way
Response 80 Hz to 20 kHz, ±2 dB
Min power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 3 9/10" woofer, 1" tweeter
Mounting Surface
Features Mounting bracket and hardware included; speaker shaped to fit into rear deck of car

PYRAMID

Pyramid Industries
12970 Branford St.
Arleta, Calif. 91331

PMS-5A

Price \$164.95
Configuration 3-way
Response 25 Hz to 22 kHz, ±3 dB re 114 dB SPL at 1 meter at 1 watt
Max power 40 watts (16 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush
Features Dual voice-coil subwoofer handles frequencies from 20 Hz to 300 Hz; two sealed back mid-anges handle frequencies from 300 Hz to 4.5 kHz; multifaced tweeter for directional surface mount applications

PMS-2A

Price \$109.95
Configuration 2-way
Response 35 Hz to 20 kHz, ±3 dB re 104 dB SPL at 1 meter at 1 watt
Max power 40 watts (16 dBW)
Impedance 4 ohms
Driver size 6" x 9"; 2½" tweeter
Magnet 16 oz.
Mounting Flush
Features Stereo or biamp connection available

REALISTIC

Radio Shack
1400 One Tandy Center
Ft. Worth, Texas 76102

12-1854

Price \$79.95/pr.
Dimensions 6½H x 10W x 2¾D
Configuration 3-way
Response 50 Hz to 15 kHz
Max power 20 watts (13 dBW)
Impedance 8 ohms
Driver size 5¼" woofer; 2½" midrange; 2" tweeter
Magnet 5.7 oz.
Mounting Surface

12-1848

Price \$29.95/pr.
Configuration Single

Response 100 Hz to 15 kHz
Max power 15 watts (11.75 dBW)
Impedance 8 ohms
Driver size 5"
Magnet 10 oz.
Mounting Flush
Features Instant mount retainer rings included

Models also available

12-1853, \$59.95/pr.; 12-1855, \$27.95/pr.

ROAD SOUNDS

Suntron

425 7th St. N.W.
 Washington, D.C. 20004

RS 3000

Price \$70
Dimensions 6H x 9½W x 1D
Configuration 3-way
Response 80 Hz to 17 kHz
Min power 15 watts
Max power 30 watts
Impedance 8 ohms
Driver size 5¼" x 5¼"
Magnet 20 oz.
Mounting Surface

RS-693

Price \$40
Dimensions 6H x 9W x 3½D
Configuration 3-way
Min power 2 watts
Max power 25 watts
Impedance 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush

Models also available

RS-694, \$50; RS 543, \$40

ROYAL SOUND

Royal Sound Co., Inc.
 248 Buffalo Ave.
 Freeport, N.Y. 11520

RS-6100

Price \$300/pr.
Dimensions 7½H x 4¾W x 5½D
Configuration 2-way
Features Basic housing and components chemically treated to inhibit corrosion; heavy duty mounting hardware to resist extremes of temperature, humidity, vibration, and jarring; heavy gauge wiring harness to insure full fidelity sound at full power output; screw-type speaker terminals for ease of mounting; low-frequency (automobile use), high frequency (home use) switchable crossover networks; LED green power light; LED red signal overload light

RS-6030

Price \$150/pr.
Dimensions 6H x 3¾W x 3D
Configuration 2-way
Features Basic housing and components chemically treated to inhibit corrosion; heavy duty mounting hardware to resist extremes of temperature, humidity, vibration, and jarring; heavy gauge wiring harness to insure full fidelity sound at full power output; screw-type speaker terminals for ease of mounting

Models also available

RS-6045N, \$200/pr.

SANYO

Sanyo Electric Co.
 1200 West Artesia Blvd.
 Compton, Calif. 90220

SP-795

Price \$100
Configuration 2-way
Response 100 Hz to 20 kHz
Max power 33.5 watts
Impedance 4 or 8 ohms
Driver size 4" woofer; 3" hard-dome tweeter
Magnet 10 oz. (woofer); 4.9 oz. (tweeter)
Mounting Surface
Features Separate L-C crossover for conventional use; swivel mounting brackets

SP-780

Price \$89.95
Configuration 2-way
Response 60 Hz to 20 kHz
Max power 33.5 watts
Impedance 4 or 8 ohms
Magnet 20 oz. (woofer); 3.2 oz. (Dome mid/tweeter)
Mounting Flush (tweeter); surface (woofer)

SP-770

Price \$80
Dimensions 9H x 6W x 2D
Configuration 3-way
Response 45 Hz to 20 kHz
Max power 28 watts
Impedance 4 or 8 ohms
Driver size 3¼"
Magnet 20 oz. (woofer); 0.8 oz. (midrange); 0.5 oz. (tweeter)
Mounting Flush/surface

SP-768

Price \$69.95
Dimensions 6H x 9W
Configuration 2-way
Response 60 Hz to 20 kHz
Max power 28 watts
Impedance 4 or 8 ohms
Magnet 20 oz. (woofer) 1 oz. (tweeter)
Mounting Flush

SP-737

Price \$69.95/pr.
Dimensions 6½H x 6½W x 2D
Configuration 3-way
Response 45 Hz to 20 kHz
Max power 24 watts (14 dBW)
Impedance 4 or 8 ohms
Driver size 6½"
Magnet 20 oz. woofer; 2.2 oz. midrange; 0.6 oz. tweeter
Mounting Flush
Features Removable crossover for conventional or blamp system

Models also available

SP-777, \$100; SP-410, \$89.95;
 SP-759, \$79.95; SP-757, \$54.95;
 SP-731, \$44.95; SP-733, \$59.95/pr.

SPARKOMATIC

Sparkomatic
 Routes 6 and 209
 Milford, Pa. 18337

SK-6900

Price \$89.95
Dimensions 6½H x 10½W x 3D
Configuration 3-way
Response 40 Hz to 18 kHz, ±3 dB
Min power 25 watts
Max power 50 watts
Impedance 4 to 8 ohms
Driver size 4" x 4"
Magnet 20 oz.
Mounting Flush

SK-525

Price \$89.95
Dimensions 5½H x 10¼W x 5D
Configuration 3-way
Response 80 Hz to 18 kHz, ±3 dB

Min power 25 watts (14 dBW)
Max power 50 watts (17 dBW)
Impedance 4 to 8 ohms
Driver size 3¾" x 3¾"
Magnet 10 oz.
Mounting Surface
Features Housed in vibration-free die-cast aluminum cabinet; high-frequency intensifier control to adjust speaker to specific environmental conditions

SK-522T

Price \$59.95
Dimensions 4½H x 4½W x 2½D
Configuration 3-way
Response 70 Hz to 17 kHz, ±3 dB
Min power 25 watts
Max power 50 watts
Impedance 4 to 8 ohms
Driver size 3¾" ¾" 3¾"
Magnet 20 oz.
Mounting Surface

SK-6920C

Price \$47.95
Dimensions 6½H x 9¼W x 3½D
Configuration 2-way
Response 30 Hz to 15 kHz, ±3 dB
Min power 25 watts
Max power 50 watts
Impedance 4 to 8 ohms
Driver size 4¾" x 7¼"
Magnet 20 oz.
Mounting Flush

Models also available

SK-700V, \$89.95; SK-6922T, \$69.95; SK-622T, \$49.95; SK-4120C, \$47.95

TENNA

Tenna Corp.
 19201 Cranwood Parkway
 Cleveland, Ohio 44128

HE-481

Price \$139.95
Dimensions 7½H x 4 7/16W x 4½D
Configuration 2-way
Response 120 Hz to 20 kHz, ±5 dB re 90 dB SPL at 1 meter at 1 watt
Min power 60 watts
Max power 100 watts
Impedance 8 ohms
Driver size 4"
Magnet 6 oz.
Mounting Surface
Features Custom mounting brackets can be positioned vertically or horizontally; wire mesh grilles

CO-620RM

Price \$59.95
Configuration 2-way
Response 120 Hz to 17 kHz, ±5 dB re 90 dB SPL at 1 meter at 1 watt
Min power 20 watts
Max power 50 watts
Impedance 4 or 8 ohms
Driver size 5¼"
Magnet 20.7 oz.
Mounting Flush
Features Wire mesh grilles

Models also available

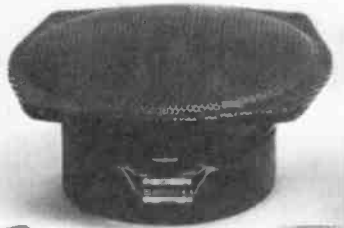
HE-531, \$119.95; TR-6930EM, \$84.95; CO-6930RM, \$79.95

TRIFLEX

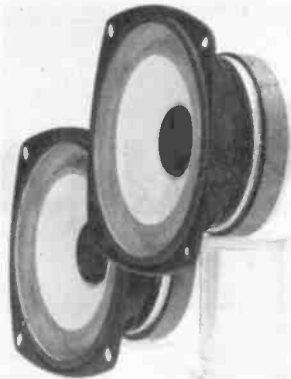
Orovox Sound
 11545 Tuxford Ave.
 Sun Valley, Calif. 91352

TR-2001

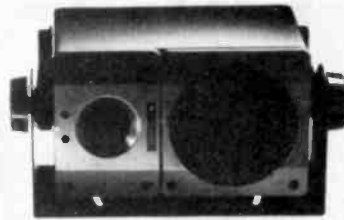
Price \$63.80
Dimensions 7H x 9W x 6D



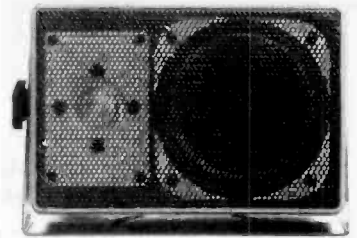
Pyramid PMS-5A



Realistic 12-2848



Royal Sound RS-6100



Sanyo SP-795

Configuration 3-way
Response 75 Hz to 19.6 kHz
Min power 6 watts
Max power 40 watts
Impedance 8 ohms
Driver size 5 1/4"
Magnet 20 oz.
Mounting Surface

TF-1000

Price \$49.95
Configuration 3-way
Response 60 Hz to 20 kHz
Min power 8 watts
Max power 40 watts
Impedance 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush

TRUSONIC

Trusonic
 10530 Lawson River Ave.
 Fountain Valley, Calif. 92708

K-6943

Price \$175
Dimensions 9 1/4"H x 6 2/5"W x 4 1/5"D
Configuration 3-way
Response 25 Hz to 25 kHz, ± 4 dB re 98 dB SPL at 1 meter at 1 watt
Min power 3 watts (4.75 dBW)
Max power 120 watts (20.75 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 40 oz.
Mounting Flush/surface
Features Chromed cast frame; 1 1/2" voice coil; biampable; waterproof construction; 5-year warranty; hardware included

K-6942

Price \$145
Dimensions 9 1/4"H x 6 2/5"W x 4 1/5"D
Configuration 2-way
Response 25 Hz to 25 kHz, ± 4 dB re 98 dB SPL at 1 meter at 1 watt
Min power 3 watts (4.75 dBW)
Max power 120 watts (20.75 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 40 oz.
Mounting Flush/surface
Features Chromed cast frame; 1 1/2" voice coil; biampable; waterproof construction; 5-year warranty; hardware included

K-6941

Price \$120
Dimensions 9 1/4"H x 6 2/5"W x 4 1/5"D
Configuration Subwoofer
Response 25 Hz to 2 kHz, ± 3 dB re 97 dB SPL at 1 meter at 1 watt

Min power 3 watts (4.75 dBW)
Max power 130 watts (21.25 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 40 oz.
Mounting Flush/surface
Features Chromed cast frame; 1 1/2" voice coil; waterproof construction; 5-year warranty; hardware included

K-6921

Price \$100
Dimensions 9 1/4"H x 6 2/5"W x 3 4/5"D
Configuration Subwoofer
Response 30 Hz to 2 kHz, ± 3 dB re 95 dB SPL at 1 meter 1 watt
Min power 3 watts (4.75 dBW)
Max power 90 watts (19.5 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush/surface
Features Chromed cast frame; 1 1/2" voice coil; waterproof construction; 5-year warranty; hardware included

K-5722

Price \$100
Dimensions 7 1/4"H x 5"W x 3 1/2"D
Configuration 2-way
Response 40 Hz to 25 kHz, ± 4 dB re 94 dB SPL at 1 meter at 1 watt
Min power 3 watts (4.75 dBW)
Max power 80 watts (19 dBW)
Impedance 4 ohms
Driver size 5" x 7"
Magnet 20 oz.
Mounting Flush/surface
Features Chromed cast frame; 1 1/2" voice coil; biampable; waterproof construction; 5-year warranty; hardware included

K-6041

Price \$95
Dimensions 6 1/2"H x 6 1/2"W x 2 9/10"D
Configuration Subwoofer
Response 35 Hz to 2 kHz, ± 3 dB re 95 dB SPL at 1 meter at 1 watt
Min power 3 watts (4.75 dBW)
Max power 130 watts (21.25 dBW)
Impedance 4 ohms
Driver size 6"
Magnet 40 oz.
Mounting Flush/surface
Features Chromed cast frame; 1 1/2" voice coil; waterproof construction; 5-year warranty; hardware included

K-6021

Price \$75
Dimensions 6 1/2"H x 6 1/2"W x 2 3/5"D
Configuration Subwoofer
Response 40 Hz to 2 kHz, ± 3 dB re 93 dB SPL at 1 meter at 1 watt
Min power 3 watts (4.75 dBW)
Max power 90 watts (19.5 dBW)
Impedance 4 ohms
Driver size 6"

Magnet 20 oz.
Mounting Flush/surface
Features Chromed cast frame; 1 1/2" voice coil; waterproof construction; 5-year warranty; hardware included

Models also available

K-6923, \$150; K-6042, \$125; K-6922, \$120; K-6022, \$100; KMT-3542, \$100

ULTRALINEAR

Ultralinear Loudspeakers
 Div. Solar Audio Products, Inc.
 3228 E. 50th St.
 Los Angeles, Calif. 90058

UD-15 Carponent®

Price \$240/pr.
Dimensions 4 1/2"H x 12"W x 6"D
Configuration 7 lbs. 13 oz.
Response Air suspension
Min power 4 1/2" air-suspension low/mid frequency driver with 1 1/2 lbs. magnetic assembly; 1" ultra-high output soft-dome high-frequency radiator
Max power 55 Hz to 22 kHz
Impedance 2.5 kOhm
Driver size 4 to 8 ohms (rated)
Magnet 3 watts (5 dBW)
Mounting 50 watts (17 dBW)

VISONIK

Viscnik of America, Inc.
 701 Heinz Ave.
 Berkeley, Calif. 94710

W-600

Price \$130 (with M-6 mounting kit)
Dimensions 7 1/2"H x 8 3/4"W x 5"D
Configuration Subwoofer
Response 40 Hz to 160 kHz, -4 dB
Min power 70 watts (18.5 dBW)
Impedance 4 ohms
Driver size 7"
Magnet 67 oz.
Mounting Flush
Features Optional enclosure

D-302MO

Price \$100
Dimensions 6 3/4"H x 4 1/4"W x 4 1/4"D
Configuration 2-way
Response 50 Hz to 22 kHz, +4, -8 dB
Min power 10 watts (10 dBW)
Max power 40 watts (16 dBW)
Impedance 4 ohms
Driver size 4" x 2"
Mounting Surface
Features Recommended for use with A-301 auto amp

Models also available

D-5000, \$125 (with bracket); D-4000, \$100

Home Video Equipment

AKAI
Akai America, Ltd.
2139 East Del Amo Blvd.
Compton, Calif. 90224

VT-350

Price \$2,195
Dimensions 5H x 10¼W x 11½D
Format Akai
Tape width ½"
Capability B/W
Half-speed No
Resolution 270 lines
Video S/N 41 dB
Audio resp. 100 Hz to 10 kHz, ±3 dB
Audio S/N 43 dB
Auto timer No
Off-air tuning No
Pause Yes
Monitor CRT Optional (\$215, Model VM 300 Viewfinder, CRT standard)
Optional (\$85, Model VRU)

TV hookup Optional (\$85, Model VRU)
Bat. power Yes
Slow-motion Yes
Stop-motion Yes
B&W camera Yes
Color camera No
Features Electronic editing; auto-repeat; still frame; modular camera; 14½-lb. battery-operated video cassette recorder, 3" attachable monitor (optional)

VP-7300

Price \$1,495
Dimensions 4 4/5H x 11½W x 11 9/10D
Format VHS
Tape width ½"
Capability Color
Half-speed No
Resolution 240 lines
Video S/N 45 dB
Audio resp. 50 Hz to 10 kHz
Audio S/N 40 dB
Auto timer Yes
Off-air tuning Yes
Pause Yes
TV hookup Yes
Bat. power Yes
Slow-motion Yes
Stop-motion Yes
B&W camera Yes
Color camera Yes

Features Noise-free still; 2X, 4X, and variable speed; frame-by-frame advance; memory counter; 7-day programmable tuner; timer-battery charger; soft-eject; remote pause; battery warning/tape-motion indicator

VT-300

Price \$1,095 to \$1,995 (depending on model)
Dimensions 5H x 10¼W x 11½D
Format Akai
Tape width ½"
Capability B/W
Half-speed No
Resolution 270 lines
Video S/N 41 dB

Audio resp. 100 Hz to 10 kHz, ±3 dB
Audio S/N 43 dB
Auto timer No
Off-air tuning No
Pause No
Monitor CRT Yes (incl. on \$1,995 model; optional, \$215 on other models)
TV hookup Optional (\$85, Model VRU)
Bat. power Yes
Slow-motion No
Stop-motion Yes
B&W camera Yes
Color camera No
Features Pause; still frame; 3" monitor (some models); camera adapter

BETAVISION
Sears Roebuck Co.
Sears Tower
Chicago, Ill. 60684

5305

Price \$885
Dimensions 7 7/10H x 19 4/5W x 15 4/5 D
Format Beta
Tape width ½"
Capability B/W; color
Half-speed No
Resolution 250 lines B/W; 240 lines (color)
Video S/N 43 dB (luminance); 35 dB (chrominance)
Audio resp. 50 Hz to 7 kHz, +3 dB, -4.5 dB
Audio S/N 40 dB
Auto timer Yes
Off-air tuning No
Pause Pause only
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion No
Stop-motion No
B&W camera Optional (\$297.50, Model 5390)
Color camera Optional Model 5381, \$1145; \$800, Model 538

Features One-button recorder; front-mounted controls and clock timer; works with any TV; remote pause control

CURTIS MATHES
Curtis Mathes Sales Co.
One Curtis Mathes Parkway
Athens, Tex. 75751

C648R

Price \$4,000
Dimensions 6¾H x 19¼W x 15½D
Format VHS (4-hour)
Tape width ½"
Capability B/W; color
Half-speed Yes
Resolution 240 lines (color); 270 lines (B/W)
Video S/N 40 dB
Pic. flutter 0.003%
Audio resp. 100 Hz to 8 kHz (SP); 100 Hz to 6 kHz (LP); ±3 dB
Audio S/N 42 dB
Audio flutter 0.18%

Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion No
Stop-motion No
B&W camera No
Color camera No

JVC VIDSTAR
JVC America Co.
58-75 Queens Midtown
Expressway
Maspeth, N.Y. 11378

HR-4100

Price \$1,250
Dimensions 5½H x 13¾W x 13D
Format VHS
Tape width ½"
Capability B/W; color
Half-speed No
Resolution 240 lines
Video S/N 45 dB
Audio resp. 70 Hz to 10 kHz, ±3 dB
Audio S/N 40 dB
Audio flutter 0.5%
Auto timer No
Off-air tuning No
Pause Pause only
Monitor CRT No
TV hookup Yes
Bat. power Yes
Slow-motion No
Stop-motion Yes
B&W camera No
Color camera No
Features Portable (21 lbs.); standard accessories include battery, built-in switchable RF adapter; AC/battery-charger adapter

HR-3600

Price \$1,245
Dimensions 5¾H x 17¾W x 12¾D
Format VHS
Tape width ½"
Capability B/W; color
Half-speed No
Resolution 240 lines
Video S/N 45 dB
Audio resp. 50 Hz to 10 kHz, ±3 dB
Audio S/N 40 dB
Audio flutter 0.5%
Auto timer Yes
Off-air tuning Yes
Pause Pause only
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion Yes
Stop-motion Yes
B&W camera No
Color camera No
Features Remote pause; still frame; double-speed play

HR-3300

Price \$1,050
Dimensions 5¾H x 17¾W x 12¾D
Format VHS
Tape width ½"
Capability B/W; color
Half-speed No
Resolution 240 lines (color)
Video S/N 45 dB
Audio resp. 50 Hz to 10 kHz, ±3 dB
Audio S/N 40 dB
Audio flutter 0.5%
Auto timer Yes
Off-air tuning Yes
Pause Pause only
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion No
Stop-motion No
B&W camera No
Color camera No

MAGNAVOX

Magnavox Consumer Electronics Co.
1700 Magnavox Way
Fort Wayne, Ind. 46804

8252 Portable

Price \$1,495 (sold only with master control unit)
Dimensions 5½H x 7½W x 14 ⅞D (record unit)
Format VHS
Tape width ½"
Capability B/W; color
Half-speed Yes
Resolution 270 lines (B/W); 230 (color)
Video S/N 40 dB
Audio resp. 100 Hz to 6 kHz
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power Yes
Slow-motion No
Stop-motion No
B&W camera Optional
Color camera Optional
Features Electronic tuning-in master-control unit; battery-power switch; battery-charge jack; battery indicator lamp

8251 Portable

Price \$1,395 (sold only with master control center)
Dimensions 5½H x 12 ⅞W x 14¼D
Format VHS
Tape width ½"
Capability B/W; color
Half-speed Yes
Resolution 270 lines (B&W); 230 (color)
Video S/N 40 dB
Audio resp. 100 Hz to 6 kHz
Audio S/N 40 dB
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power Yes
Slow-motion No
Stop-motion No
B&W camera Optional
Color camera Optional
Features Battery-charge jack; battery-charge lamp; mechanical tuning

8220

Price \$1,075
Dimensions 7¼H x 19 3/32W x 15D

Format VHS
Tape width ½"
Capability B/W; color
Half-speed Yes
Resolution 270 lines (B/W); 230 (color)
Video S/N 40 dB
Audio resp. 100 Hz to 6 kHz
Audio S/N 40 dB (short play)
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion No
Stop-motion No
B&W camera Yes
Color camera Yes

Models also available

8225, \$1,295

MITSUBISHI

Melco Sales, Inc.
3030 E. Victoria St.
Compton, Calif. 90221

HS-200U

Dimensions 6¼H x 19¾W x 13½D
Format VHS
Tape width ½"
Capability Color
Half-speed 2 to 6 hr.
Resolution 230 lines
Video S/N 45 dB (less because of 2/6 Hr.)
Off-air tuning Yes
Pause Yes
Monitor CRT No
Bat. power No
Slow-motion No
Stop-motion No
B&W camera No
Color camera No
Features Programmable up to 6 programs in a week; electronic tape indexing; electronic touch tuning; 5 motors, direct drive

OMNIVISION VHS

Panasonic Co.
One Panasonic Way
Secaucus, N.J. 07024

PV-2200

Price \$1,525
Dimensions 5¾H x 12¼W x 14¾D (VTR unit); 5¾H x 7¾W x 15¼D (tuner adapter)
Format VHS
Tape width ½"
Capability B/W; color
Half-speed Yes
Resolution 230 lines
Video S/N 40 dB
Audio S/N 40 dB
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power Yes
Slow-motion No
Stop-motion No
B&W camera Optional (direct connectable)
Color camera Optional (direct connectable)
Features Three-way operation (AC, DC, car cord); tuner timer included to be complete VTR system; pushbutton operation

PV-1600

Price \$1,295

Dimensions 6¾H x 19¾W x 15½D
Format VHS
Tape width ½ in
Capability B/W; color
Half-speed (3 speeds: SP/LP/SLP)
Resolution 230 lines
Video S/N 40 dB
Audio S/N 40 dB
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion No
Stop-motion No
B&W camera Optional (with AC/adaptor)
Color camera Optional (with AC adaptor)
Features Microcomputerized programmable timer for 4 programs within one week; electronic tuner; up to 6 hours recording capability

PV-1200

Price \$1,095
Dimensions 6¾H x 19¾W x 15½D
Format VHS
Tape width ½"
Capability B/W; color
Half-speed (3 speeds: SP/LP/SLP)
Resolution 230 lines
Video S/N 40 dB
Audio S/N 40 dB
Auto timer Yes (programmable)
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion No
Stop-motion No
B&W camera Optional (with AC adaptor)
Color camera Optional (with AC adaptor)
Features Up to 6 hours recording capability; time-limit timer with TV tuner for off-the-air recording

PHILCO

GTE Consumer Electronics
700 Ellicott St.
Batavia, N.Y. 14020

V-1100

Price N/A
Dimensions 6¾H x 19¾W x 15½D
Format VHS
Tape width ½"
Capability B/W; color
Resolution 240 lines
Video S/N 43 dB
Audio resp. 50 Hz to 10 kHz
Audio S/N 40 dB
Auto timer Yes
B&W camera Optional
Color camera Optional

QUASAR

Quasar Electronics Co.
Division of Matsushita Electric Corp. of America
9401 West Grand Ave.
Franklin Park, Ill. 60131

VH-5100

Price \$1,350
Dimensions 7H x 19¼W x 15½D
Format VHS
Tape width ½"
Capability B/W; color
Half-speed Yes
Resolution 270 lines (B/W); 230 (color)
Video S/N 42 dB
Audio resp. 100 Hz to 8 kHz
Audio S/N 40 dB

Auto timer Yes; 4 memories allow separate programming of day of the week, time-on, length of program, channel number

Off-air tuning Yes; 14 pushbutton varactor electronic tuning

Pause Yes; remote (wired), includes channel-changing capability

Monitor CRT No

TV hookup Yes

Bat. power No

Slow-motion No

Stop-motion No

B&W camera Optional

Color camera Optional

VH-5200 Portable

Price \$1,150

Dimensions 5½H x 12¾W x 12¾D

Format VHS

Capability B/W; color

Half-speed Yes

Resolution 270 lines (B/W); 230 (color)

Video S/N 42 dB

Audio resp. 100 Hz to 8 kHz

Audio S/N 40 dB

Off-air tuning Optional tuner/power supplies (VA-515) allow VHF/UHF taping; timer, pause control included

Monitor CRT No

TV hookup Built-in RF modulator allows use with standard TV on channel 3 or 4

Bat. power Yes; internal, rechargeable battery; AC with built-in adapter; DC (car cigarette lighter) with adapter

Slow-motion No

Stop-motion No

B&W camera Optional

Color camera Optional

Features 19 lbs. (16 lbs. without battery); 30-min. battery-power capability; audio input and output; shoulder strap supplied; deluxe carrying case optional

Models also available

VH-5010, \$1,150

SANYO

Sanyo Electric, Inc.
1200 West Artesia Blvd.
Compton, Calif. 90220

VCR-5500

Price \$1,495

Dimensions 6 3/10H x 17 9/10W x 15 1/5D

Format Beta

Tape width ½"

Capability B/W; color

Half-speed 2 speeds for recording; auto playback

Resolution 240 lines (color); 250 lines (monochrome)

Video S/N 45 dB (luminance); 35 dB (chrominance)

Audio resp. 50 Hz to 70 kHz, +3, -4.5 dB

Audio S/N 40 dB (45 dB with Beta NR)

Audio flutter 0.15%

Auto timer Yes

Off-air tuning Yes

Pause Yes

Monitor CRT Yes

TV hookup Yes

Slow-motion Yes

Stop-motion Yes

B&W camera Optional

Color camera Optional

Features Seven-day clock/timer; remote control unit with "Betascan" advances or rewinds at 20 times normal playing speed with picture; variable speed slow motion; one-touch record; live picture and sound recording capability; video and audio outputs; automatic shut-off with "sleep"

timer; freeze frame with single frame advance; electronic touch controls

VCR-5000 Betacord III

Price \$1,095

Dimensions 6 3/10H x 17 3/5W x 14 3/5D

Format Beta

Tape width ½"

Capability B/W; color

Half-speed Yes (2-speed)

Resolution 240 lines (color); 250 lines (monochrome)

Video S/N 43 dB (luminance); 35 dB (chrominance)

Audio resp. 50 Hz to 70 kHz, +3, -4.5 dB

Audio S/N 40 dB

Audio flutter 0.15%

Auto timer Yes

Off-air tuning Yes

Pause Yes

Monitor CRT Yes

TV hookup Yes

Slow-motion Yes

Stop-motion Yes

B&W camera Optional

Color camera Optional

Features Remote pause control; built-in all channel tuners; micro-touch controls; digitron clock/timer; audio dubbing capability; automatic shut-off sleep switch; easy connect to any TV set

VTC-9100A

Price \$995

Dimensions 7¾H x 19½W x 14½D

Format Beta

Tape width ½"

Capability B/W; color

Resolution 250 lines (B/W); 240 lines (color)

Video S/N 43 dB

Audio resp. 50 Hz to 7 kHz, ±3 dB

Audio S/N 40 dB

Auto timer Yes

Off-air tuning Yes

Pause Yes

Monitor CRT Optional

TV hookup Yes

Bat. power No

Slow-motion No

Stop-motion No

B&W camera Optional (\$995, Model VC-1400)

Color camera Optional

Features Instant stop/start with remote control for on-the-air editing; built-in all-channel tuner; built-in connector to any TV set; simple one-finger operation; video inputs and outputs; automatic shut-off with "sleep" switch; audio output jack for stereo play; instant replay capabilities; memory counter; LED clock/timer

SELECTAVISION

RCA

600 North Sherman Drive
Indianapolis, Ind. 46201

VCT-400

Price N/A

Dimensions 7H x 19½W x 15½D

Format VHS

Tape width ½"

Capability Color

Half-speed Yes

Auto timer Yes

Off-air tuning Yes

Pause Pause only

Monitor CRT No

TV hookup Yes

Bat. power No

Slow-motion No

Stop-motion No

B&W camera Optional (Model BW005; Model BW007)

Color camera Optional (Model CC003 or CC004)

Features Remote pause switch with 20' cable; digital channel display using electronic TV tuners with pushbutton channel selection; any four programs on any received TV channels can be selected for unattended recording during a one-week period; in fast-forward mode, the unit will stop automatically at start of each recorded program; unit will automatically revert to TV mode when VCR power is off; backup circuit eliminates clock and memory failure during short-term power interruption

VDT-600

Dimensions 7H x 19W x 15D

Format VHS

Tape width ½"

Capability Color

Half-speed Yes (2 to 6 hrs.)

Auto timer Yes

Off-air tuning Yes

Pause Pause only

Monitor CRT No

TV hookup Yes

Bat. power No

Slow-motion No

Stop-motion No

B&W camera Optional

Color camera Optional

Features Remote pause/channel selection switch with 20-ft. cable; digital channel display using electronic TV tuners with pushbutton channel selection; any four programs on any received TV channel can be selected for unattended recording during a one-week period; reserve circuit prevents clock and memory failure during short term power interruptions; records up to 6 hours on one cassette; in fast forward will automatically stop at the beginning of each recorded program; automatically revert to TV mode when VCR power is off

Features Remote pause/channel selection switch with 20-ft. cable; digital channel display using electronic TV tuners with pushbutton channel selection; any four programs on any received TV channel can be selected for unattended recording during a one-week period; reserve circuit prevents clock and memory failure during short term power interruptions; records up to 6 hours on one cassette; in fast forward will automatically stop at the beginning of each recorded program; automatically revert to TV mode when VCR power is off

VDT-201

Price \$1,150

Dimensions 7H x 19W x 15½D

Format VHS

Tape width ½"

Capability Color

Half-speed Yes

Auto timer Yes

Off-air tuning Yes

Pause Pause only

Monitor CRT No

TV hookup Yes

Bat. power No

Slow-motion No

Stop-motion No

B&W camera Optional (Model BW005; Model BW007)

Color camera Optional (Model CC003 or CC004)

Features Remote pause switch with 20' cable; unit can be timed to turn on and off automatically for unattended recording

SHARP

Sharp Electronics Corp.
10 Keystone Place
Paramus, N.J. 07652

VC-6800

Price \$1,395

Dimensions 6¾H x 19¾W x 16D

Format VHS

Tape width ½"

Capability Color

Half-speed 2 speed (2 to 6 hrs.)

Resolution 240 lines

Video S/N 45 dB

Pic. flutter 0.4%

Audio resp. 70 Hz to 9 kHz, ±3 dB

Audio S/N 40+ dB

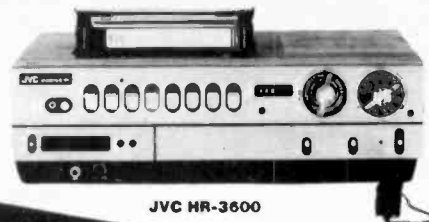
Auto timer Yes



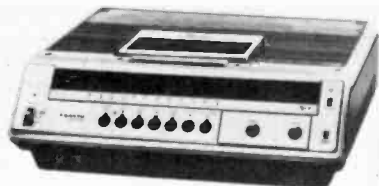
Akai VT-300



Zenith KR-9000W



JVC HR-3600



Sanyo VCR-5500



RCA Selectavision VCT-400

Off-air tuning Yes
 Pause Yes
 Monitor CRT Yes
 TV hookup Yes
 Bat. power No
 Slow-motion No
 Stop-motion No
 B&W camera No
 Color camera Optional
Features APLV (automatic program locating device); front-loading tape mechanism; program microprocessor; 7 days, 7 programs, 7 channels; digital quartz clock/timer with LCD readout; built-in VHF/UHF electronic 12-button tuner; up to 6 hours recording capability

SONY BETAMAX
 Sony Corp. of America
 9 West 57th St.
 New York, N.Y. 10019

SL-3000 Portable

Price \$1,299
 Dimensions 5H x 11¼W x 11½D
 Format Betamax
 Tape width ½ in
 Capability B/W; color
 Half-speed No
 Resolution 240 lines (color); 250 lines (B/W)
 Video S/N 45 dB
 Audio resp. 50 Hz to 8 kHz, ±1 dB
 Audio S/N 40 dB
 Auto timer Yes
 Off-air tuning Yes
 Pause Yes
 Monitor CRT No
 TV hookup Yes
 Bat. power Yes
 Slow-motion No
 Stop-motion No
 B&W camera Yes
 Color camera Yes
Features Portable (20 lbs.); maximum battery recording time, 1 hour; AC recording time is 3 hours; memory rewind; automatic shutoff; audio dubbing; off-air record option; optional tuner-timer; battery level indicator; auxiliary hookups for earphone and microphone jacks; dew warning light and built-in heater; hook-in to car/boat

SL-5400

Price \$1,250
 Dimensions 6½H x 19½W x 15D
 Format Betamax
 Tape width ½ in
 Capability B/W; color
 Resolution 250 lines (monochrome); 240 lines (color)
 Video S/N 45 dB
 Audio resp. 50 Hz to 10 kHz

Audio S/N 40 dB
 Auto timer Yes
 Off-air tuning Yes
 Pause Yes
 Monitor CRT No
 TV hookup Yes
 Bat. power No
 Slow-motion No
 Stop-motion Yes
 B&W camera Yes
 Color camera Yes
Features Betascan (fast forward and fast rewind at ten times normal speed with visible picture); three-day multi-event programmer; built-in digital clock timer; preset timer shutoff; electronic pushbutton tuning; audio ver dubbing capability; remote control allows remote pause, remote betascan and remote fast forward

SL-8600

Price \$1,150
 Dimensions 18¾H x 7¾W x 16½D
 Format Betamax
 Tape width ½ in
 Capability Color; B/W
 Half-speed No
 Resolution 240 lines
 Video S/N 45 dB
 Audio resp. 50 Hz to 8 kHz, ± 3dB
 Audio S/N 40 dB
 Audio flutter 3%
 Auto timer Yes
 Off-air tuning No
 Pause Yes
 Monitor CRT No
 TV hookup Yes
 Bat. power No
 Slow-motion No
 Stop-motion No
 B&W camera No
 Color camera No

SYLVANIA

GTE Consumer Electronics
 700 Ellicott St.
 Batavia, N.Y. 14020

VC-2500

Price N/A
 Dimensions 6¾H x 19½W x 15½D
 Format VHS
 Capability B/W; color
 Resolution 240 lines
 Video S/N 43 dB
 Audio resp. 50 Hz to 10 kHz
 Audio S/N 40 dB
 Auto timer Yes
 B&W camera Optional
 Color camera Optional

TOSHIBA

Toshiba America, Inc.
 280 Park Ave.
 New York, N.Y. 10017

V-5310

Price \$1,095
 Dimensions 7¾H x 19¾W x 15¾D
 Format Beta
 Tape width ½ in
 Capability B/W; color
 Half-speed No
 Resolution 240 lines (color)
 Video S/N 42 dB
 Audio resp. 50 Hz to 8 kHz, ±3 dB
 Audio S/N 42 dB
 Auto timer Built-in
 Off-air tuning Yes
 Pause Pause only
 Monitor CRT No
 TV hookup Yes
 Bat. power No
 Slow-motion No
 Stop-motion No
 B&W camera Optional (Model TA-11)
 Color camera Optional (Model 1610)
Features Audio dubbing (voice over plx); built-in remote pause

ZENITH

Zenith Radio Corp.
 1000 Milwaukee Ave.
 Glenview, Ill. 60025

VR-9000W

Price \$1,195
 Dimensions 6½H x 19½W x 15D
 Format Beta II and III
 Tape width ½ in
 Capability B/W; color
 Half-speed No
 Resolution 240 lines (color); 250 lines (B/W)
 Video S/N 45 dB
 Audio resp. 50 Hz to 7 kHz
 Audio S/N 40 dB
 Auto timer Yes
 Off-air tuning Yes
 Pause Yes
 Monitor CRT No
 TV hookup Yes
 Bat. power No
 Slow-motion No
 Stop-motion Yes
 B&W camera Optional
 Color camera Optional
Features Remote control with speed search; PCM switch; electronic touch-command channel selection; audio dub; AFC

Signal Processors

(including Noise-Reduction units)

ADVENT

Advent Corp.
195 Albany St.
Cambridge, Mass. 02139

Model 500 SoundSpace Control

Description Acoustic simulator
Price \$595
Delay 1 to 100 millisecond (continuously variable)
Decay Continuously variable
Response 20 Hz to 6 kHz; 6 kHz to 20 kHz (direct)
THD 0.1% (rear channels for 1.5V input at 1 kHz; front channels, unity gain)
Features 32,000-bit RA memory

ADS

Analog & Digital Systems
One Progress Way
Wilmington, Mass. 01887

ADS-10 Acoustic Dimension Synthesizer

Description Built-in amplification; matching speakers optimized for ambience reproduction
Price \$1,150
Delay 10 ms to 100 (variable)
Decay 0 to 1.6 sec (variable)
Response 30 Hz to 13 kHz, +1, -3 dB
THD 0.03% (front); 0.3% (rear) at 1 kHz
Noise 83 dB reference 3V
Inputs 2 main, 2 tape, 2 power amp
Outputs 2 front, 2 rear #1, 2 rear #2, 2 tape, 2 speaker

ADS 10-01 Acoustic Dimension Synthesizer

Description Similar to model ADS-10, but without amp or speakers
Price \$700
Delay 10 ms to 100 (variable)
Decay 0 to 1.6 sec. (variable)
Response 30 Hz to 13 kHz, +1, -3 dB
THD 0.03% (front); 0.3% (rear) at 1 kHz
Noise 83 dB reference 3V rms
Inputs 2 main, 2 tape
Outputs 2 front, 2 rear #1, 2 rear #2, 2 tape

AUDIO PULSE

Audio Pulse Electronics, Inc.
4323 N. Arden Drive
El Monte, Calif. 91731

Model 1000 Time-Delay

Description Ambience simulator, with dynamic range expander, using multiple re-

cycling of signal and cross-coupling through a digital delay line
Price \$950

Delay Initial delay 7, 12, 19, 33, 42, 53 min. continuously variable to 12, 21, 33, 58, 75, 95 m.
Decay 0.0 to 1.2 sec (variable)
Response Direct (front) 20 Hz to 20 kHz, \pm 0.5 dB; delayed (rear) 20 Hz to 10 kHz, \pm 3 dB
THD Direct (front) 80 dB (IHF); delayed (rear) 75 dB (IHF)
IM Direct (front) 0.09 max THD (IHF); delayed (rear) 0.5% max THD (IHF)
Noise Direct (front) 80 dB (THF) delayed (rear) 75 dB (THF)
Expansion 1.0 to 1.5 ratio (continuously variable)

Attack 2 ms
Release 200 ms
Inputs Sensitivity: 50 mV to 60V (variable)
Outputs 0 to 1.5 volts (variable)
Features Digital display of delay and decay times; LED input level indicators; LED expander-level indicators; front-channel delay for stage depth; headphone amplifier with ambient mix, remote defeat jack; additional outputs for 6/8 channel operation; compatible with any preamp; tape monitor or speaker outputs; automatic defeat of between-song dialogue on radio broadcasts; tape monitor facilities; individual input/output level controls; balance control

Model Two Digital Time-Delay

Description Ambience simulator, with built-in 25/25W amplifier, using multiple recycling of signal through a digital delay line
Price \$585
Delay Short initial delay: 19, 33, 51 ms; long initial delay: 39, 66, 103 ms
Decay 0.1 sec to 0.6 sec (variable) (echo density high)

Response 40 Hz to 8 kHz, +1, -2 dB
THD 0.5% (40 Hz to 8 kHz at 25 watts -14 dBW—per channel into 8 ohms, direct mode)
Noise 72 dB below rated output (delayed) (unweighted); below rated output (direct) (unweighted)
Inputs Sensitivity for 0 dB 50 mV to 3.3V (variable) (low level); sensitivity for 0 dB 1.2V to 60V (variable) (high level)

Outputs Any output 0-1.5V/16K ohm max
Features Built-in 25 watt (14 dBW) per channel integrated amplifier with tone controls (+2.5/-12 dB at 70 Hz, +4/-7 dB at 7 Hz); input and output level controls with LED peak-level indicator; long/short delay and direct/defect function selector; input can be driven from preamp output, tape monitor or speaker terminals (with optional cable)

AUDIONICS OF OREGON

Audionics, Inc.
10950 S.W. 5th, # 160
Beaverton, Ore. 97005

Space and Image Composer

Description Four-channel SQ decoder with Tate Directional Enhancement System

Price \$799
Response 20 Hz to 20 kHz, \pm 1 dB
THD 0.2% (20 Hz to 20 kHz)
IM 0.2%
Noise -70 dB reference 250 mV input
Compression None
Expansion None
Attack 3 ms
Release 3 ms
Features Retrieves natural directionality and ambience in SQ or Enhance mode in real-time with up to 40 dB separation; directional LED display; axial-tilt feature electrically corrects cartridge/stylus misalignment; Class A circuitry; remote control option

BOZAK

Bozak, Inc.
587 Connecticut Ave.
South Norwalk, Conn. 06854

902S Time-Delay System

Description Analog control unit with integrated 35 watt-per-channel amplifier plus two DS-1800 indirect radiating loudspeakers

Price \$975
Delay 30 ms to 130 (continuously variable)
Decay Up to 3 sec (continuously variable)
Response 30 Hz to 7.7 kHz, +0, -3 dB (control unit)
THD 0.1% (1 kHz to 20 kHz)
IM 0.01% (1 kHz)

Features Ambience simulator circuitry; phase coherent outputs; unique LED dual-range meter monitors delay output, also available without speakers, \$795

901 Time-Delay Unit

Description Analog control unit (same as 902 control unit, but has no amplifier or speakers)

Price \$625

CONCERT MACHINE

Sound Concepts, Inc.
P.O. Box 135
Brookline, Mass. 02146

AD-1060

Description ambience restoration system; time delay with built-in amplifiers generates 2 ambience channels; designed especially for car stereo systems

Price \$300
Delay 10 milliseconds to 70 (variable)
Response 10 Hz to 6 kHz, \pm 3 dB
THD 1% (kHz)
Noise 60 dB A reference below max. output
Inputs Stereo line (Hi-Z1V); stereo and mono speaker lever
Outputs 2

Features Achieves spatial effect with no reverb; single-shaft remote control available as Model 1060RC (\$40)

CROWN

Crown International
1718 W. Mishawak Road
Elkhart, Ind. 46514

VFX-2A Crossover

Description Continuously variable
Price \$389
Features Max input, 10V; max output, 10V; continuously variable, active, solid-state filters which can be used to perform either crossover or bypass functions; two filters per channel, each continuously variable from 20 Hz to 20 kHz; filter rolloff fixed at 18 dB per octave, which eliminates any noticeable dip in the frequency spectrum at crossover points when properly adjusted; sharp rolloff also quickly attenuates unwanted frequencies above and below crossover

dbx

dbx, Inc.
71 Chapel St.
Newton, Mass. 02195

3BX Expander

Description Three-frequency-band linear expander
Price \$650
Response 20 Hz to 20 kHz, ± 0.5 dB
THD 0.1% (20 Hz to 20 kHz) at 1.0 expansion
IM 0.15%
Noise 85 dBV unweighted referenced to 1V
Expansion 1:1 to 1:1.5 (0 to 50% increase)
Attack Program dependent
Release Program dependent
Inputs Main and tape monitor
Outputs Main and tape recording
Features Thirty gain-change LEDs

2BX Expander

Description Two-band linear expander
Price \$450
Response 20 Hz to 20 kHz, ± 0.5 dB
THD 0.1% at 1.0 expansion (20 Hz to 20 kHz)
IM 0.15%
Noise -85 dBV reference 1V
Expansion 1:1 to 1:1.5 (up to 50%)
Attack Program dependent
Release Program dependent
Inputs Signal; tape monitor
Outputs Signal; recording
Features Twenty gain-change LEDs (10 per band)

1BX Expander

Description Single-band linear expander
Price \$245
Response 20 Hz to 20 kHz, ± 0.5 dB
THD 0.1% (20 Hz to 20 kHz) at 1.0 expansion
IM 0.15%
Noise -85 dBV reference 1V
Expansion 1:1 to 1:1.5 (up to 50%)
Release Program dependent
Inputs Signal; tape monitor
Outputs Signal; recording; quad coupler for two units
Features Ten gain-change LEDs

128 dbx II System

Description Wideband linear compressor/expander or peak limiter/limiter

plus dbx II noise-reduction system
Price \$450
Response 30 Hz to 20 kHz, ± 0.5 dB
THD 0.5% (30 Hz to 20 kHz)
IM 0.15%
Noise -85 dBV reference 1V
Compression Continuously variable to Infinity
Expansion Continuously variable to 2.0 (up to 100%)
Inputs Signal; tape monitor
Outputs Signal; recording
Features Level match control; dbx disc decode switch

124 dbx II System

Description Four-channel dbx II noise-reduction system
Price \$399
Response 30 Hz to 20 kHz, 0.5 dB
THD 0.5% (30 Hz to 15 kHz)
IM 0.15% (max)
Noise -85 dBV reference 1V
C/E Ratio 2:1/1:2 (fixed)
Inputs Four signal; four tape monitor
Outputs Four signal; four recording
Features dbx disc decode switch; simultaneous dbx encode/decode function for monitoring; level control

122 dbx II System

Description Two-channel dbx II noise-reduction system
Price \$275
Response 30 Hz to 20 kHz, ± 0.5 dB
THD 0.5% (30 Hz to 15 kHz)
IM 0.15% (max)
Noise -85 dBV reference 1V
C/E Ratio 2:1/1:2 (fixed)
Inputs Two signal; two tape monitor
Outputs Two signal; two recording
Features dbx disc decode switch; level control

118 Compressor/Expander

Description Wideband linear compressor/expander or peak limiter/unlimiter
Price \$199
Response 20 Hz to 20 kHz, ± 0.5 dB
THD 0.1% (20 Hz to 20 kHz) at 1.0 expansion
IM 0.15%
Noise 85 dBV unweighted referenced to 1V
Compression 1:1 to Infinity (variable)
Expansion 1:1 to 2:1 (variable)
Inputs Signal in
Outputs Signal out; tape or aux out
Features Level, 10 mV to 2V

21 Tape/Disc Decoder

Description dbx type II noise-reduction decoder for playback of dbx-encoded discs or tapes
Price \$109
Response 15 Hz to 30 kHz, ± 0.5 dB, NR out 0.2% (1 kHz)
Noise -74 dBV reference 1V
Expansion 1:2 (fixed)
Inputs Main signal and tape monitor
Outputs Main signal and record

DRACO

Draco Labs, Inc.
1005 Washington St.
Grafton, Wisc. 53024

Digital Expander

Description 3-band expander
Price \$550
Response 20 Hz to 20 kHz, ± 0.5 dB
THD 0.05% (20 Hz to 20 kHz)
IM 0.005%
Noise -100 dB reference 1V
Expansion Yes

C/E Ratio 1:1 to 1:1.6 dB/dB
Attack Variable/Band milliseconds
Release Variable/Band milliseconds
Inputs Main; tape
Outputs Main; record
Features Digital gain sections; pre-post process selection; bypass; 3-section LED display

FURMAN SOUND

Furman Sound, Inc.
616 Canal St.
San Rafael, Calif. 94901

RV-1 Reverberation System

Description Mono spring-type reverb system with limiter and equalization
Price \$250
Delay 35 milliseconds
Decay 1.8 sec
Response 45 Hz to 7 kHz, ± 5 dB
Noise 74 dB S/N; EQ set flat
Inputs 33K ohms unbalanced; recommended level -10 to +4 dBm (reference 0.775V)
Outputs 47 ohms unbalanced; max output level 8.3V rms (+21 dBm)
Features Fast-attack limiter with limit threshold LED light; equalization includes treble-shelving control at 2.5 kHz, and quasi-parametric midrange control (frequency adjustable from 160 Hz to 1.4 kHz); separate wet and dry mix controls allow use either with a mixing board with effects send and return channels, or directly with a musical instrument; foot switch capability

KLARK-TEKNIK

Hammond Industries
155 Michael Drive
Syosset, N.Y. 11791

DN-70 Digital Time Processor

Description Single-channel
Price \$4,900
Delay 653 ms (max)
Response 30 Hz to 15 kHz, ± 1 dB
THD 0.1% (1 kHz)
Outputs 4
Features Front-panel regeneration and direct/delayed mix controls; LED readout of time delay on channels A, B, and C; also available with 323 millisecond (\$4,750) or 163 millisecond (\$4,600) delay

DN-36 Analogue Time Processor

Description Dual-channel, effects include phasing, flanging, reverb
Price \$1,600
Delay 26 ms (per channel)
Response 20 Hz to 15 kHz
THD 0.2% (1 kHz)

DN-34 Analogue Time Processor

Description Single-channel, dual-delay with effects such as Doppler, vibrato, phasing, and flanging
Price \$1,600
Delay 52 ms (max)
Response 20 Hz to 16 kHz
THD 0.2% (1 kHz)
Outputs Line, adjustable from +4 dBm to +18 dBm
Features Dynamic range, 90 dB; bandwidth, 15 kHz at maximum delay

KLH
KLH Research and Development Corp.
 145 University Ave.
 Westwood, Mass. 02090

DNF 1201A Dynamic Noise Filter

Description Single-pass noise-reduction system using dynamically controlled variable-cutoff low-pass filter

Price \$379

Response 10 Hz to 20 kHz, ± 0.5 dB

THD 0.2% (20 Hz to 10 kHz)

IM 0.05%

Noise 100 μ V (80 dBV)

Features Ref. level, 0.24V to 0.77V (variable); suppression, 5 to 14 dB tape-hiss reduction depending on program; up to 38 dB at 10 kHz

TNE 7000A Noise Suppressor

Description Impulse suppressor (eliminates subtle random clicks and pops)

Price \$299

Response 20 Hz to 20 kHz, ± 0.5 dB

THD 0.1% (20 Hz to 20 kHz)

IM 0.05%

Noise 40 μ V (88 dBV)

LOGICAL SYSTEMS

Logical Systems
 3314 H St.
 Vancouver, Wash. 98663

8800 Dynamic Noise Filter

Description Usable with tapes, records, AM, FM; connects to preamp or receiver with standard RCA phono plugs

Price \$249

Response 20 Hz to 20 kHz

THD 0.1% (20 Hz to 20 kHz)

IM 0.01% (60 Hz/7 kHz mixed 4:1); typically 0.005%

Noise 85 dB reference 2V

Attack Program dependent (very fast)

Release Program dependent (very fast)

Inputs 47K ohm single-ended stereo RCA phono

Outputs 600 ohm or greater; 10V max into 10K ohms

Features Up to 15 dB hiss reduction; continuously variable threshold control; low-noise FET control circuitry with gyrator-type variable low-pass filter; tri-color LED display

MXR
MXR Innovations, Inc.
 247 N. Goodman St.
 Rochester, N.Y. 14607

MOD 132 Dynamic Expander

Description Linear dynamic expander with adjustable expansion ratio and front-panel control of release time

Price \$300

Response 20 Hz to 20 kHz, +0, -1 dB

THD 0.05% (20 Hz to 20 kHz) (1:1 expansion)

IM 0.1% (60 Hz to 7 kHz, 4:1) (1:1 expansion)

Noise -94 dBV reference 1V rms (full expansion)

Expansion Variable from 1:1 to 1.6: 1

Attack 5 milliseconds (program dependent)

Release 50 to 500 milliseconds (user variable)

Features LED display; level control; bypass switch; tape monitor switch; pre/post switch; furnished with walnut side panels; rack-mounting ears available as an option

MOD 119 Componder

Description Wideband linear compressor/expander

Price \$149.94

Response 30 Hz to 20 kHz, ± 1 dB

THD 0.15% (200 Hz to 20 kHz)

IM 0.75% (60 Hz to 7 kHz, 4:1)

Noise -88 dBV (unweighted)

C/E Ratio 2:1/1:2 (fixed)

Tracking ± 1 dB per 20 dB

Features Level match control; bypass switch

NAKAMICHI
Nakamichi USA Corp.
 1101 Colorado Ave.
 Santa Monica, Calif. 90401

Hi-Com II

Description Two-band noise-reduction system with Telefunken High Com compander IC

Price \$420

Features 20-dB noise reduction plus 3 to 7 dB headroom improvement; defeatable infrasonic and multiplex filters; recommended for high-quality cassette decks

NIKKO
Nikko Audio
 16270 Rayner St.
 Van Nuys, Calif. 91406

ATD-1 Time Delay Synthesizer

Description Recreates ambience in live performances by adding reverberation and echo

Price \$450

Delay 17 ms to 128 ms (variable)

Decay 100 ms to 2 sec (variable)

Response Main: 20 Hz to 20 kHz, -0.1 dB; delay: 20 Hz to 5 kHz, ± 3 dB; Main: 0.05% (20 Hz to 20 kHz); delay: 0.6% (500 Hz)

THD Main: 80 dB; delay: 60 dB (A-weighted)

Noise Main: 80 dB; delay: 60 dB (A-weighted)

Features Three adjustable hall sizes; reverb, hall character, and stage distance control; input level adjustment with LED indicator; delay defeat switch; 2 or 4-channel switch; 2 1/2H x 19W x 13D

PACKBURN
Packburn Electronics
 P.O. Box 335
 Dewitt, N.Y. 13214

303 Audio Noise Suppressor

Description Continuous noise suppressor reduces both transient noises and hiss from a wide variety of recorded sound media, especially 78 rpm records

Price \$1,950

Response $\pm 1/2$ dB, 10 Hz to beginning of cutoff frequency varies from 3 kHz to 15 kHz in accordance with dynamics of program material; alternatively, a fixed cutoff frequency may be selected; meter in front panel reads cutoff frequency

IM 0.05%

Inputs 600 ohms balanced line (transformerless) and single-ended Hi Z

Outputs 600 ohms balanced line (transformerless) and single-ended Lo Z

Features Will process vertical-cut records as well as lateral-cut records and stereo records; tape, film, cylinders, etc.; provides facilities for reproducing from either groove wall with minimum of vertical modulation noise; 5 1/4H x 19W x 10D

101 Transient Noise Suppressor

Description Reduces transient noises from wide variety of recorded sound media, especially 78 rpm records

Price \$1,500

Response 10 Hz to 20 kHz, ± 0.5 dB

IM 0.03% (60 Hz and 7 kHz, 4:1 at +4 VU 1.228V out)

Noise 80 dB reference +4 VU (1.228V) out

Inputs 600 ohms balanced line (transformerless) and single-ended high impedance

Outputs 600 ohms balanced line and single-ended low impedance

Features Two separate processors for reduction of transient noises; processes vertical-cut records, lateral-cut records, stereo records; facilities for playing from either groove wall; rack-mountable; 5 1/4H x 19W x 10D

PHASE LINEAR
Phase Linear Corp.
 20121 48th Ave. W.
 Lynnwood, Wash. 98036

1000 Series Two

Description Single-pass noise reduction system plus dynamic range expander

Price \$349.95

Response 20 Hz to 20 kHz, ± 1 dB

THD 0.09% (20 Hz to 20 kHz)

IM 0.09%

Noise 90 dB reference 2V

Expansion 7.5 dB

Inputs Main and tape

Outputs Main and tape

Features Provides 10 dB of noise reduction; compatible with Dolby and dbx

PSB
PSB Speakers, Inc.
 P.O. Box 144
 St. Jacobs, Ontario
 Canada N0B 2N0

PSB InfraSonic Barrier

Description Sophisticated low filter which sharply rolls off frequencies under 20 Hz; virtually eliminates problems caused by warped records, turntable rumble, and tone-arm/cartridges resonances

Price \$109

Response 20 Hz to 100 kHz, ± 0.25 dB

THD 0.008%

RG DYNAMICS
RG Dynamics, Inc.
 4448 West Howard St.
 Skokie, Ill. 60076

RG Pro-20W Dynamic Processor

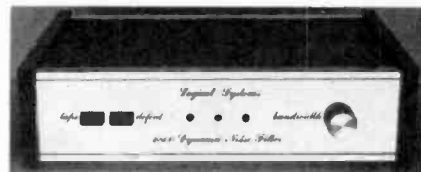
Description Upward and downward expander with peak unlimiting



dbx 3BX



Furman Sound RV-1



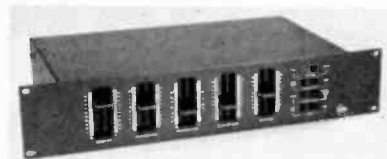
Logical Systems 8800



MXR MOD-132



RG Dynamics RG-PRO-20W



Sound Concepts SD-550

Price \$395 (also available as model RG Pro-20B standard 19" black rack panel, \$395; model RG Pro-20BW 17" black panel with solid walnut end blocks, \$410)

Response 20 Hz to 20 kHz, ± 0.5 dB

THD 0.04% (1 kHz)

IM 0.05%

Noise 88 dB reference 1V

Expansion Continuously variable 4 dB to 20 dB (-4 dB to -8 dB downward, 0 to +12 dB upward)

Attack 0.6 ms

Release 80 ms

Inputs Main and tape

Outputs Main and tape

Features Independent left and right channel processing for accurate stereo image; low distortion; complete tape facilities for processing both recording and playback plus monitoring from 3-head machines; stereo LED display; 17" silver panel with solid walnut end blocks

RG Pro-16W Dynamic Processor

Description Upward and downward expander with peak unlimiting

Price \$299 (also available as model RG Pro-16BW standard 19" black rack panel, \$299, and model RG Pro-16BW 17" black panel with solid walnut end blocks, \$314)

THD 0.08% (1 kHz)

IM 0.1%

Noise 80 dB reference 1V

Expansion Continuously variable 4 dB to 16 dB (-4 to -7 dB downward, 0 to +9 dB upward)

Attack 0.6 ms

Release 80 ms

Inputs Main and tape

Outputs Main and tape

Features Independent left and right channel processing; stereo LED display; low distortion; 17" silver panel with solid walnut end blocks

SAE
Scientific Audio Electronics, Inc.
 P.O. Box 60271 Terminal Annex
 Los Angeles, Calif. 90060

Model 4100

Description Time-delay ambience system

Price \$500

Delay 15 ms to 70 ms (3 variable steps)

Decay 0 to 100% (variable)

Response 20 Hz to 5 kHz, ± 1 dB

THD 0.5% (20 Hz to 5 kHz)

IM 0.5%

Noise 60 dB reference 2.5V

SAE 5000

Description Impulse suppressor

Price \$225

Response 20 Hz to 20 kHz, ± 1 dB

THD 0.1%

IM 0.1%

Noise 90 dB

SOUND CONCEPTS
Sound Concepts, Inc.
 P.O. Box 135
 Brookline, Mass. 02146

SD-550 Ambience Restoration System

Description Ambience simulator using "bucket-brigade" analogue delay line

Price \$700 (also available in rack-mount design, SD-550R, at same price)

Delay 5 to 50 ms or 10 to 100 ms (variable)

Response 20 Hz to 8 kHz, ± 3 dB (delayed)

THD 1% (1 kHz)

Noise 85 dBA (min); 90 dBA (typical)

Inputs 2 front channel; 2 rear channel

Outputs 2 front channel; 2 rear channel

Features Works with mono, stereo, or quad sources; does not require level machine in use; ambience reproducer, not a simulator

SOURCE ENGINEERING
Source Engineering
 Box 506
 Wilmington, Mass. 01887

Noise Suppressor

Description Single-pass noise-reduction system operating separately in four frequency bands, three of which open and close to pass signal and block noise

Price \$315

Response 20 Hz to 20 kHz, ± 1.5 dB

THD 0.1%

IM 0.1%

Noise 80 dB below ref. at -60 dB setting; at least 20 dB below higher settings

Inputs IN; FROM TAPE (316/100 mV nominal)

Outputs TO TAPE; OUT

Features Ref. level: 0.316V/0.1V by internal switching; suppression: 14 to 20 dB (depends on frequency content of signal); available also as part of complete preamplifier, Model PNS; mono version in Specialist preamplifier; LEDs indicate activity in bands; suppression can precede or follow tape; selectable 7 kHz or 3 kHz fixed filtering (50 dB/octave); provision for rising noise characteristic vs. frequency

VRE Expander

Description Volume-range expander for playback only, with provision for compensating for automatic or manual compression above an adjustable threshold (10 mV to 1V)

Price \$175

Response 20 Hz to 50 kHz, ± 0.5 dB

THD 0.1% (20 Hz to 15 kHz)

IM 0.1%

Noise 80 dB reference 1V input

Expansion -8 to +6 dB at 1.6 dB; 0 to +8 dB at 1.35 dB/dB input change

Attack 0.5 or 5 ms

Release 100 or 1K ms

Inputs IN; FROM TAPE (316 mV nominal)

Outputs TO TAPE (same as IN); OUT

Features Adjustable threshold with indicating LED; two attack times, two release times (separately switchable); upward and up/down expansion modes; tape-monitor provisions

SYMMETRY
Symmetry Audiophile Systems
 101 Townsend St.
 San Francisco, Calif. 94107

ACS-1 Electronic Crossover

Description An active crossover for stereo or mono use

Price \$650

THD 0.01% (20 Hz to 20 kHz)

IM 0.01%

Noise 100 dB/min reference below 3V at unity gain

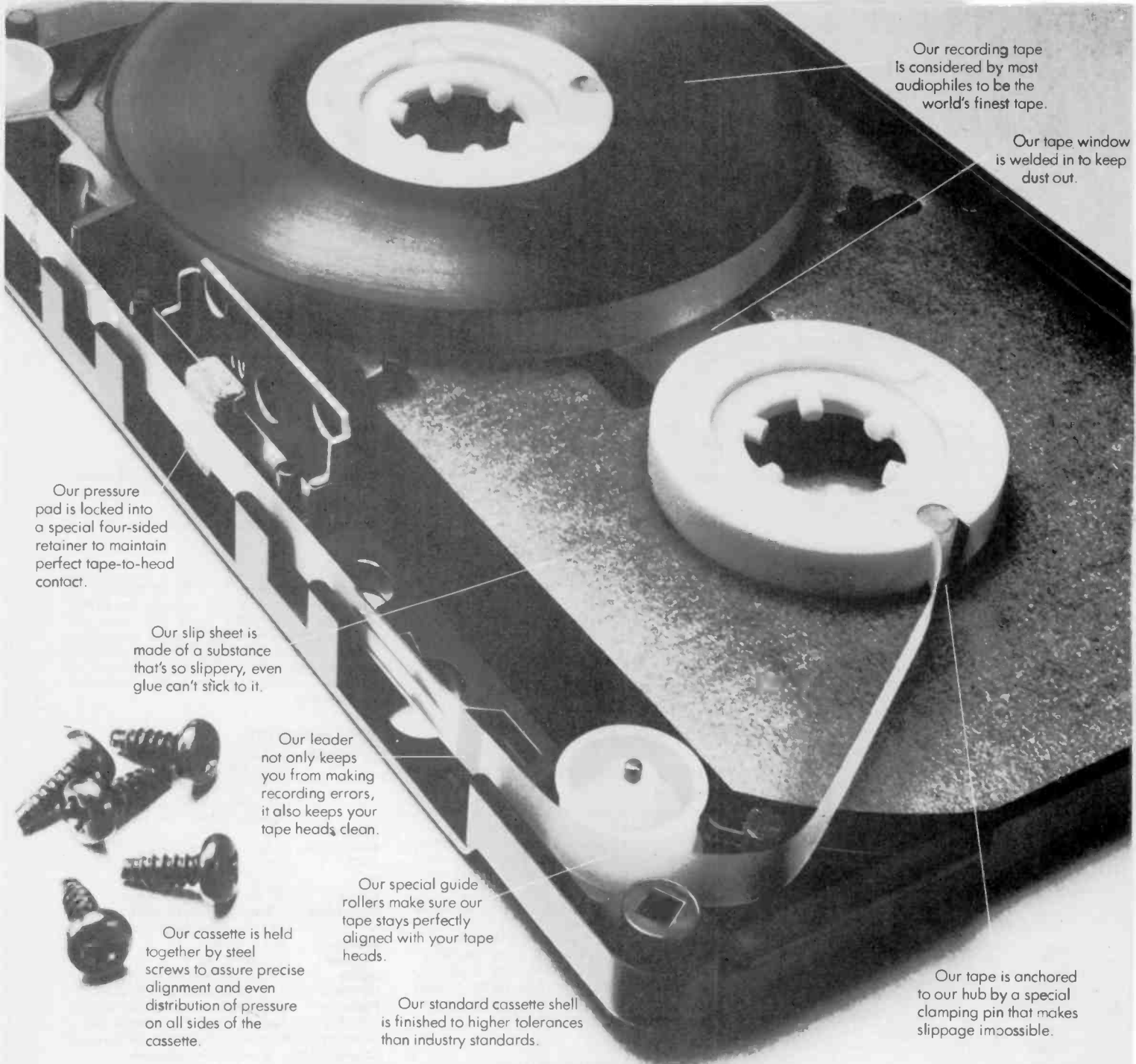
Inputs 100K ohms

Outputs Low pass; hi pass

Features Low pass (transitional Butterworth) Thompson filter characteristics; 12 dB per octave slope/crossover point continuously variable from 45 Hz to 4.5 kHz

A Note on Prices

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.




Our recording tape is considered by most audiophiles to be the world's finest tape.

Our tape window is welded in to keep dust out.

Our pressure pad is locked into a special four-sided retainer to maintain perfect tape-to-head contact.

Our slip sheet is made of a substance that's so slippery, even glue can't stick to it.



Our leader not only keeps you from making recording errors, it also keeps your tape heads clean.

Our cassette is held together by steel screws to assure precise alignment and even distribution of pressure on all sides of the cassette.

Our special guide rollers make sure our tape stays perfectly aligned with your tape heads.

Our standard cassette shell is finished to higher tolerances than industry standards.

Our tape is anchored to our hub by a special clamping pin that makes slippage impossible.

There's more to the world's best tape than the world's best tape.

Our reputation for making the world's best tape is due in part to making the world's best cassettes.

In fact, we put more thought

and more work into our cassettes than most manufacturers put into their tape.

We do all this, because at Maxell

we believe in a simple philosophy.

To get great sound out of a cassette takes a lot more than just putting great tape into it.

maxell

Maxell Corporation of America, 60 Oxford Drive, Moonachie, N.J. 07074.

Raw Tape

Open-Reel

AMPEX
Ampex Corp.
401 Broadway
Redwood City, Calif. 94063

Grand Master

Coating(s) Ferric
Base Polyester
Backing Carbon
Packaging Cardboard box
Length/Price Standard, 7", 1,200', \$8.69; extra, 7", 1,800', \$9.99; standard, 10½", 2,500', \$22.99; extra, 10½", 3,600' \$26.49

Features Mastering quality; 10½" metal reel

20:20+

Coating(s) Ferric
Base Polyester
Backing Carbon
Packaging Cardboard box
Length/Price Standard, 7", 1,200', \$7.39; extra, 7", 1,800', \$8.99

Plus

Coating(s) Ferric
Base Polyester
Packaging Cardboard box
Length/Price Standard, 7", 1,200', \$5.89; extra, 7", 1,800', \$7.39

Features Balanced frequency response; general music quality

AUDIO MAGNETICS

Audio Ferric Corp.
2602 Michelson Dr.
Irvine, Calif. 92716

Tracs

Coating(s) Low-noise, Ferric
Base Polyester
Packaging Hinged cardboard box
Length/Price 7", 1,200', \$6.12; 7", 1,800', \$6.49; 7", 2,400', \$6.69

BASF

BASF Systems, Inc.
Crosby Drive
Bedford, Mass. 01730

Professional

Coating(s) Low-noise; high-output; low-print
Base Polyester
Backing Lubricated
Packaging Hinged plastic box; NAB
Length/Price Extra, 7", 1,800', \$14.99; extra, 10½", 3,600', \$29.99

Studio

Coating(s) Low-noise; high-output
Base Polyester
Packaging Hinged plastic box; cardboard box; NAB
Length/Price Extra, 7", 1,800', \$ 9.99; double, 7", 2,400', \$14.99; extra, 10½", 3,600', \$19.99

Performance

Coating(s) Low-noise; high-output
Base Polyester
Packaging Hinged plastic box
Length/Price Extra, 7", 1,800', \$7.49; double, 7", 2,400', \$9.99; triple, 7", 3,600', \$15.99

CAPITOL

Capitol Magnetic Products
1750 North Vine St.
Los Angeles, Calif. 90028

Music Tape

Coating(s) Low-noise; high-output
Backing "Cushion-Alre"
Length/Price Standard, 7", 1,200', \$5.79; extra, 7", 1,800', \$6.99; standard, 10½", 2,500', \$17.29; extra, 10½", 3,600', \$19.98

CRITERION

Lafayette Electronics
111 Jericho Tpke.
Syosset, N.Y. 11791

Criterion XHE

Coating(s) Ferric
Base Polyester
Packaging Cardboard box
Length/Price 60 min, 7", 1,200', \$5.99; 90 min, 7", 1,800', \$7.29

EMI

Empire Scientific Corp.
1055 Stewart Ave.
Garden City, N.Y. 11530

Super

Coating(s) Low-noise, ferric, high-output, low-print
Base Polyester
Packaging Hinged plastic box; Styrene
Length/Price Extra, 5", 900', \$16.95; extra, 7", 1,800', \$25.95; extra, 10½", 3,600', \$59.95; standard, 7", 1,200', \$24.95; double, 7", 2,400', \$27.95

Features Tensitized for minimum stretching

FUJI

Fuji Photo Film, USA, Inc.
350 Fifth Ave.
New York, N.Y. 10001

FB-151

Coating(s) Low-noise; high-output; low-print-through
Base Polyester
Packaging Cardboard box
Length/Price Extra, 7", 1,200', \$10.20; extra, 7", 1,800', \$13.20; extra, 10½", 3,600', \$36

FG

Coating(s) Low-noise; high-output; low-print-through
Base Polyester
Packaging Cardboard box
Length/Price Extra, 7", 1,200', \$7.15; extra, 7", 1,800', \$9.55; extra, 10½", 3,600', \$27

FM

Coating(s) Low-noise; high-output; low-print-through
Base Polyester
Packaging Cardboard box
Length/Price Extra, 5", 900', \$5.80; extra, 7", 1,200', \$6.95; extra, 7", 1,800', \$7.90

IRISH

Irish Recording Tape
270-278 Newtown Road
Plainview, N.Y. 11803

277

Coating(s) Low-noise; high-output; low-print
Base Polyester
Packaging Cardboard box
Length/Price Extra, 7", 2,400', \$17.20

276

Coating(s) Low-noise; high-output
Base Polyester
Packaging Cardboard box
Length/Price Standard, 7", 1,200', \$13.15

251

Coating(s) Premium
Base Polyester
Packaging Cardboard box
Length/Price Double, 7", 2,400', \$16.10

241 Premium

Base Polyester
Packaging Cardboard box
Length/Price 5", 900', \$5.25; 7", 1,800', \$9.25

231

Coating(s) Premium
Base Polyester
Packaging Cardboard box
Length/Price Standard, 5", 600', \$4.25; standard, 7", 1,200', \$7.35

MAXELL
Maxell Corp. of America
60 Oxford Drive
Moonachie, N.J. 07074

UD-XL Professional

Coating(s) Low-noise; high-output; epitaxial
Base Polyester
Backing Ultrafine carbon
Packaging Cardboard box
Length/Price UD-XL50-60B, 7", 1,200', \$12.45;
 UD-XL35-90B, 7", 1,800', \$14.00;
 UD-XL50-120B, 10½", 2,500',
 \$33.75; UD-XL35-180B, 10½",
 3,600', \$38.50
Features Back-coated tape

Ultra-Dynamic

Coating(s) Low-noise; high-output
Base Polyester
Packaging Cardboard box
Length/Price UD50-60, 7", 1,200', \$9.95; UD35-
 90, 7", 1,800', \$11.50; UD50-120,
 10½", 2,500', \$28.30; UD35-180,
 10½", 3,600', \$31.90

Low-Noise

Coating(s) Low-noise
Base Polyester
Packaging Cardboard box
Length/Price LN50-60, 7", 1,200', \$8.70; LN35-
 90, 7", 1,800', \$10; LN25-120, 7",
 2,400', \$14.95; LN18-180, 7",
 3,600', \$21.25; LN50-120, 10½",
 2,500', \$24.70; LN35-180, 10½",
 3,600', \$28

REALISTIC
Radio Shack
1400 One Tandy Center
Ft. Worth, Texas 76102

Supertape Gold

Coating(s) Ferric
Base Polyester
Backing Carbon
Packaging Hinged cardboard box
Length/Price 7", 1,800', \$8.99
Features Head-cleaning leader tape

Supertape

Coating(s) Premium
Base Polyester
Packaging Hinged cardboard box
Length/Price Standard, 5", 900', \$2.99; stan-
 dard, 7", 1,200', \$4.99; extra, 7",
 1,800', \$5.99; double, 7", 3,600',
 \$9.99

Realistic

Coating(s) Low-noise
Base Polyester
Length/Price Standard, 5", 900', \$249; 5", 1,200',
 \$3.49; extra 7", 1,800', \$4.49; ex-
 tra, 7", 2,400', \$5.49; double, 7",
 3,600', \$7.29

Concertape

Coating(s) Ferric
Base Polyester
Packaging Cardboard box
Length/Price Standard, 7", 1,800', \$1.95

SCOTCH
3M

Magnetic Audio/Video
Products Div.
3M Center
St. Paul, Minn. 55101

Master

Coating(s) Low-noise; ferric; high-output
Base Polyester
Packaging Hinged cardboard box
Length/Price Standard 7", 1,800', \$9.95; extra
 7", 2,400', \$12.95; extra, 10½",
 3,600', \$25.99
Features Mastering quality tape for critical
 music applications

Premium Quality

Coating(s) Low-noise; high-output;
Base Polyester
Backing "Post-track"
Length/Price No. 206, 7", 1,200', \$6.99; No. 207,
 7", 1,800', \$8.59

Dynarange

Coating(s) Low-noise
Base Polyester
Packaging Hinged cardboard box; cardboard
 box
Length/Price 5", 600', \$3.59; 5", 900', \$4.19; 5",
 1800', \$7.19; 7", 1,200', \$5.49; 7",
 1,800', \$7.19; 7", 2,400', \$10.89;
 7", 3,600', \$14.29
Features Multi-purpose tape providing full
 dynamic range; s/n 4 to 6 dB better than standard
 tapes

Highlander

Coating(s) Low-noise
Base Polyester
Packaging Cardboard box
Length/Price 7", 1,200', \$4.79; 7", 1,800', \$6.59
Features All-purpose economy tape

SONY
Sony Industries
9 W. 57th St.
New York, N.Y. 10019

FeCr Series

Coating(s) Ferrichrome
Base Polyester
Backing Back coating
Packaging Cardboard box
Length/Price 90 min, 7", 1,800', \$14; 180 min,
 10½", 3,600', \$39

ULH Series

Coating(s) Low-noise; ferric; high-output
Base Polyester
Backing Back coating
Packaging Cardboard box
Length/Price 60 min, 7", 1,200', \$9; 90 min, 7",
 1,800', \$11.50; 180 min, 10½",
 3,600', \$31

TDK
TDK Electronics Corp.
755 Eastgate Blvd.
Garden City, N.Y. 11530

LB (Audua)

Coating(s) Low-noise; ferric; high-output
Base Polyester
Backing 1-micron thick back-treatment
 coating
Packaging Cardboard box
Length/Price Extra, 7", 1,800', \$11.49; standard,
 10½", 3,600', \$29.19

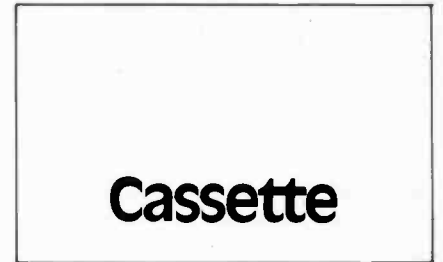
L (Audua)

Coating(s) Low-noise; ferric; high-output
Base Polyester
Packaging Cardboard box

Length/Price Standard, 7", 1,200', \$7.59; extra,
 7", 1,800', \$9.39; standard 10½",
 3,600' \$21.99; standard 10½"
 metal, 3,600', \$26.59

S (Superior)

Coating(s) Low-noise; ferric
Base Polyester
Packaging Cardboard box
Length/Price Extra, 7", 1,800', \$7.69; standard,
 10½", 3,600', 18.59



AMPEX
Ampex Corp.
401 Broadway
Redwood City, Calif. 94603

Grand Master II

Coating(s) Ferricobalt
Base Polyester
Packaging Norelco box
Length/Price C-60, \$4.19; C-90, \$5.29
Features High bias; 70 ms equalization

Grand Master I

Coating(s) Ferric
Base Polyester
Packaging Norelco box
Length/Price C-60, \$3.69; C-90, \$4.79
Features Studio mastering formulation; in-
 creased sensitivity; special cleaning leader; normal
 bias; 120 ms equalization

20:20+

Coating(s) Mastering quality ferric oxide
Base Polyester
Packaging Norelco box
Length/Price C-45, \$2.39; C-60, \$2.69; C-90,
 \$3.79; C-120, \$5.29
Features Normal bias; 120 ms equalization;
 high sensitivity

Plus

Coating(s) Ferric, extra high output
Base Polyester
Packaging Norelco box
Length/Price C-45, \$1.39; C-60, \$1.69; C-90,
 \$2.79; C-120, \$4.19
Features Screw-shell; wide dynamic range

Lo-Noise

Coating(s) Ferric; low-noise formulation
Base Polyester
Packaging Norelco box
Length/Price C-45, 99¢; C-60, \$1.29; C-90,
 \$1.89; C-120, \$3.39
Features Screw-shell

AUDIO MAGNETICS
Audio Magnetics Corp.
2602 Michelson Dr.
Irvine, Calif. 92716



AmpeX 20:20+



Maxell UD



Nakamichi EX-II



Fuji FX-11



Memorex MRX



Scotch Master III

High Performance II

Coating(s) Ferric; high bias
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$2.99; C-90, \$4.29

High-Performance

Coating(s) Ferric; high-output
Base Polyester
Packaging Hinged plastic box
Length/Price C-45, \$2.19; C-60, \$2.49; C-90, \$3.49; C-120, \$4.49
Features Instant-start record/play with special jam-proof mechanics in see-through housing

Tracs

Coating(s) Low-noise; ferric
Base Polyester
Packaging Hinged plastic box
Length/Price C-45, \$.99; C-60, \$1.09; C-90, \$1.69; C-120, \$1.99

BASF

BASF Systems, Inc.
Crosby Drive
Bedford, Mass. 01730

Professional III

Coating(s) Ferrichrome
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$3.89; C-90, \$5.29

Professional II

Coating(s) Chromium dioxide
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$3.89; C-90, \$5.29

Professional I

Coating(s) Ferricobalt
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$3.49; C-90, \$4.99

STUDIO II

Coating(s) Chromium dioxide
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$3.49; C-90, \$4.99

Studio I

Coating(s) High-output
Base Polyester
Packaging Hinged plastic box or blister pack
Length/Price C-60, \$3.29; C-90, \$4.69

Performance

Coating(s) Low-noise
Base Polyester
Packaging Hinged plastic box or blister pack
Length/Price C-45, \$2.49; C-60, \$2.69; C-90, \$3.79; C-120, \$4.99

CAPITOL

Capitol Magnetic Products
1750 North Vine St.
Los Angeles, Calif. 90028

Music Tape

Coating(s) Low-noise; ferric
Packaging Hinged plastic box
Length/Price C-45, \$1.99; C-60, \$2.49; C-90, \$3.69; C-120, \$4.39

CRITERION

Lafayette Electronics
111 Jericho Tpke.
Syosset, N.Y. 11791

Criterion XHE

Coating(s) Ferric
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$2.99; C-90, \$3.99; C-120, \$4.99

DAK

DAK Industries
10845 Van Owen
North Hollywood, Calif. 91605

ML

Coating(s) High-energy ferric oxide, normal bias
Base Polyester
Backing Polyester
Packaging Norelco box
Length/Price ML-46, \$1.49; ML-60, \$1.76; ML-90, \$2.49
Features Deluxe screw-etched precision cassette housing

HEC

Coating(s) Low-noise; high-output; cobalt-doped
Packaging Hinged plastic box
Length/Price C-40, \$1.27; C-60, \$1.57; C-90, \$1.91; C-120, \$2.96
Features Ultra-high output

LNC

Coating(s) Low-noise; ferric
Length/Price C-30, 77¢; C-60, 92¢; C-90, \$1.17; C-120, \$1.89

DENON

American Audioport, Inc.
1407 North Providence Road
Columbia, Miss. 65201

DX5

Coating(s) Dual-layer ferric oxide, cobalt-doped
Base Polyester
Backing Polyester
Packaging Hinged plastic box
Length/Price C-46, \$4.50; C-60, \$5.00; C-90, \$7.00

DX3

Coating(s) Dual-layer ferric oxide
Base Polyester
Backing Polyester
Packaging Hinged plastic box
Length/Price C-46, \$3.50; C-60, \$4.00; C-90, \$5.60

EMI

Empire Scientific Corp.
1055 Stewart Ave.
Garden City, N.Y. 11530

Hi Fidelity (Gold)

Coating(s) Low-noise, ferric, high-output, low-print
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$5.75; C-90, \$7.75; C-120, \$9.95
Features Very low distortion with excellent print-through characteristics; excellent frequency response

Super (Silver)

Coating(s) Low-noise, ferric, high-output, low-print
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$4.40; C-90, \$6.50; C-120, \$8.70
Features Excellent print-through characteristics; minimum dropouts

Standard (Bronze)

Coating(s) Low-noise, ferric, high-output, low-print

Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$2.95; C-90, \$4.50; C-120, \$5.85
Features Low printthrough characteristics

FUJI
Fuji Photo Film, USA, Inc.
350 Fifth Ave.
New York, N.Y. 10011

Metal
Coating(s) Metal particle
Base Polyester
Packaging Hinged plastic box
Length/Price C-46, \$7.40; C-60, \$8.40

FX-II
Coating(s) Berldox (chrome-equivalent ferric)
Base Polyester
Backing Polyester
Packaging Hinged plastic box
Length/Price C-46, \$3.70; C-60, \$4.20; C-90, \$5.80
Features High bias

FX-I
Coating(s) Ferric
Base Polyester
Backing Polyester
Packaging Hinged plastic box
Length/Price C-46, \$3.35; C-60, \$3.95; C-90, \$5.25
Features Standard bias

FL
Coating(s) Low-noise; ferric
Packaging Hinged plastic box
Length/Price C-46, \$2.50; C-60, \$2.85; C-90, \$3.95; C-120, \$5.45

IRISH
Irish Recording Tape
270-278 Newtown Road
Plainview, N.Y. 11803

262
Coating(s) Low-noise; ferric
Packaging Hinged plastic box
Length/Price C-60, \$2.85; C-90, \$4.25

261
Coating(s) Ferric
Packaging Maller
Length/Price C-45, \$1.95; C-60, \$2.20; C-90, \$3.00; C-120, \$5.30

2000
Coating(s) Ferric
Base Polyester
Packaging Hinged plastic box
Length/Price C-30, \$1.40; C-60, \$1.60; C-90, \$1.65
Features Also available packaged in polybag

MAXELL
Maxell Corp. of America
60 Oxford Drive
Moonachie, N.J. 07074

UD-XLII
Coating(s) High-output; epitaxial
Base Tensitized polyester
Packaging Hinged plastic box
Length/Price C-60, \$5.25; C-90, \$7.25
Features High-level bias and equalization

UD-XLI
Coating(s) High-output; epitaxial
Base Tensitized polyester
Packaging Hinged plastic box
Length/Price C-60, \$5.25; C-90, \$7.25
Features Normal bias and equalization

Ultra-Dynamic (UD)
Coating(s) High-output
Base Tensitized polyester
Packaging Hinged plastic box
Length/Price UD-46, \$3.70; U-60, \$4.00; UD-90, \$5.90; UD-120, \$7.90

Low-Noise (LN)
Coating(s) Low-noise
Base Tensitized polyester
Packaging Hinged plastic box
Length/Price LN-46, \$2.45; LN-60, \$2.70; LN-90, \$4.10; LN-120, \$5.30

MEMOREX
Memorex Corp.
San Tomas at Central
Expressway
Santa Clara, Calif. 95052

High Bias
Coating(s) Ferricobalt
Base Polyester
Packaging Hinged plastic box; Philips-type; album design
Length/Price C-60, \$4.39; C-90, \$5.99
Features Memorex warranty

MRX₃
Coating(s) Ferric
Base Polyester
Packaging Hinged plastic box
Length/Price C-30, \$2.59; C-45, \$2.79; C-60, \$2.99; C-90, \$4.49; C-120, \$5.99
Features Memorex warranty

NAKAMICHI
Nakamichi Research (USA), Inc.
1101 Colorado Ave.
Santa Monica, Calif. 90401

ZX (Metal)
Coating(s) Metal particle
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$9.75
Features Ultra-high coercivity and retentivity; micro-precision plastic housing

SX
Coating(s) High-output; high-coercivity; ionized cobalt on ferric oxide
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$5.50; C-90, \$7.20
Features CrO₂ replacement; high bias, 70 μs EQ; micro-precision plastic housing

EX-II
Coating(s) Low-noise; extra high-output; complex crystal ferricobalt

Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$5.20; C-90, \$7.00
Features High-ferric bias; 120 μs EQ recommended; micro-precision plastic housing

EX
Coating(s) Low-noise; high-output; high-bias; pure ferrocrystal formulation
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$4.50; C-90, \$5.80
Features Special micro-precision cassette housing; 120μs EQ

REALISTIC
Radio Shack
1400 One Tandy Center
Ft. Worth, Texas 76102

Supertape Chrome
Coating(s) Chromium dioxide
Base Mylar®
Packaging Hinged plastic box
Length/Price C-60, \$3.49; C-90, \$4.49
Features Head-cleaning leader tape

Supertape Gold
Coating(s) Low-noise; high-performance
Packaging Hinged plastic box
Length/Price C-45, \$2.59; C-60, \$2.99; C-90, \$3.99; C-120, \$4.79
Features Head-cleaning leader tape

Supertape
Coating(s) Low-noise, ferric, high-output
Base Polyester
Backing None
Packaging Hinged plastic box
Length/Price C-45, \$2.59; C-60, \$2.99; C-90, \$3.49; C-120, \$3.99
Features Prices based on quantity-buying (1-22 tapes); prices lower when quantity increases

Concertape
Coating(s) Ferric
Packaging Package of 3
Length/Price C-30, \$1.99; C-60, \$2.59; C-90, \$3.59; C-120, \$4.99

Realistic
Coating(s) Low-noise
Base Mylar®
Packaging Hinged plastic box
Length/Price C-30, \$1.49; C-60, \$1.89; C-90, \$2.59; C-120, \$3.19
Features New low-noise tape with hi-flux density oxide

RECOTON
Recoton Corp.
46-23 Crane St.
Long Island City, N.Y. 10011

Rainbow Pack
Coating(s) Low-noise
Base Polyester
Packaging Five-pack storage container
Length/Price RC5X60, \$3.99; RC5X90, \$5.79

Ultra-Flow
Coating(s) High-output
Base Polyester
Packaging Hinged plastic box; four-pack display box

Length/Price C-45, \$1.29; C-60, \$1.49; C-90, \$1.79; RU4X60 4-pack, \$5.39; RU4X90 4-pack, \$6.79

RKO
RKO Tape
3 Fairfield Crescent
West Caldwell, N.J. 07006

RKO Audition XD

Coating(s) Ferric
Base Polyester
Packaging Hinged plastic box
Length/Price C-90, \$4.40; C-60, \$3.15; C-45, \$2.85
Features Extended dynamic range

RKO Broadcast I

Coating(s) Low-noise, ferric, high-output
Base Polyester
Packaging Hinged plastic box
Length/Price C-90, \$5.75; C-60, \$3.79

ROYAL SOUND
Royal Sound Co., Inc.
248 Buffalo Ave.
Freeport, N.Y. 11520

ULC

Coating(s) Ferric; high-performance
Packaging Hinged plastic box
Length/Price C-60, \$3.50; C-90, \$5.00

CDC

Coating(s) Chromium dioxide
Packaging Hinged plastic box
Length/Price C-60, \$3.00; C-90, \$4.50

Low-Noise

Coating(s) Low-noise; ferric
Packaging Hinged plastic box
Length/Price C-45, \$1.75; C-60, \$2.00; C-90, \$3.00; C-120, \$4.00

SCOTCH

3M
Magnetic Audio/Video
Products Div.
3M Center
St. Paul, Minn. 55101

Metafine

Coating(s) Metal particle
Base Polyester
Packaging Hinged plastic box
Length/Price C-46, \$6.25 (price); C-60, \$6.95; C-90, \$8.95
Features Metal particle formulation offers double maximum output of oxide tapes; 5 to 10 dB greater than "chrome" tapes

Master III

Coating(s) Ferrichrome
Base Polyester
Packaging Hinged plastic box (C-Box, 40¢ additional)
Length/Price C-45, \$4.19; C-60, \$4.49; C-90, \$5.69

Features Coating provides 3 dB improvement in output at low frequencies and 2 dB boost at high frequencies, compared to chrome and ferric-oxide tapes

Master II

Coating(s) Chrome equivalent (70 ms equalization)
Base Polyester
Packaging Hinged plastic box (C-Box, 40¢ additional)
Length/Price C-45, \$4.19; C-60, \$4.49; C-90, \$5.69
Features Coating offers 3 dB better S/N, 2 dB greater output sensitivity than standard chrome

Master I

Coating(s) Ferric; high-performance (120 ms equalization)
Base Polyester
Packaging Hinged plastic box (C-Box, 40¢ additional)
Length/Price C-45, \$3.59; C-60, \$3.89; C-90, \$5.09
Features Premium grade, low-noise ferric oxide

Dynarange

Coating(s) Low-noise, high-output ferric
Base Polyester
Backing "Posi-track"
Packaging Hinged plastic box
Length/Price C-45, \$2.59; C-60, \$2.99; C-90, \$4.19; C-120, \$5.79

Highlander

Coating(s) Low-noise; ferric
Base Polyester
Packaging One-piece plastic box
Length/Price C-45, \$1.59; C-60, \$1.79; C-90, \$2.69; C-120, \$3.99
Features All purpose (voice-music) cassette

SONY
Sony Industries
9 West 57th St.
New York, N.Y. 10019

FeCr Series

Coating(s) Low-noise, high-output, ferric-chrome
Base Polyester
Backing Tensitized
Packaging Hinged plastic box; Blister pack
Length/Price FeCr-46, \$4.20; FeCr-60, \$4.60; FeCr-90, \$5.90
Features Normal or FeCr bias; FeCr or 70 microsecond EQ

EHF Cassette

Coating(s) Low-noise, ferric, high-output
Base Polyester
Backing Tensitized
Packaging Hinged plastic box; blister pack
Length/Price EHF-46, \$3.60; EHF-60, \$4.00; EHF-90, \$5.60
Features High or CrO₂ bias; CrO₂ or 70-microsecond bias

SHF Series

Coating(s) Low-noise, ferric, high-output
Base Polyester
Backing Tensitized
Packaging Hinged plastic box; blister pack
Length/Price SHF-46, \$3.30; SHF-60, \$3.70; SHF-90, \$5.00
Features Normal bias; normal or 120 microsecond EQ

HFX Series

Coating(s) Low-noise, ferric, high-output
Base Polyester

Backing Tensitized
Packaging Hinged plastic box; Blister pack
Length/Price HFX-46, \$2.90; HFX-60, \$3.10; HFX-90, \$4.40; HFX-120, \$6.00
Features Normal bias; normal or 120 microsecond EQ

LNx Series

Coating(s) Low-noise, ferric
Base Polyester
Backing Tensitized
Packaging Hinged plastic box; blister pack
Length/Price LNX-46, \$1.95; LNX-60, \$2.15; LNX-90, \$3.10; LNX-120, \$4.00
Features Normal bias; normal or 120 microsecond EQ

TDK
TDK Electronics Corp.
755 Eastgate Blvd.
Garden City, N.Y. 11530

MA-R (Metal)

Coating(s) Metal particle
Base Polyester
Packaging Hinged plastic box
Length/Price C-60, \$12.99
Features Reference mechanism with die-cast metal unibody shell

SA (Super Avilyn)

Coating(s) Cobalt-adsorbed gamma ferric oxide
Base Polyester
Packaging Hinged plastic box
Length/Price SA-C-60, \$3.99; SA-C-90, \$5.69
Features High-bias tape formulation; super precision mechanism with bubble surface liner sheet and double hub clamp assembly

AD (Audua)

Coating(s) Ferric
Base Polyester
Packaging Hinged plastic box or blister pack
Length/Price AD-C-45, \$2.89; AD-C-60, \$3.09; AD-C-90, \$4.49; AD-C-120, \$6.19
Features Normal bias with "hot high end"; super precision mechanism incorporates bubble surface liner sheet and double hub clamp assembly

D (Dynamic)

Coating(s) Low-noise; high-output; hi-grained ferric oxide
Base Polyester
Packaging Hinged plastic box or blister pack
Length/Price D-C-30, \$1.79; D-C-45, \$1.99; D-C-60, \$2.19; D-C-90, \$3.09; D-C-120, \$3.79; D-C-180, \$5.39
Features Precision mechanism features bubble surface liner sheet and double hub clamp assembly

EC (Endless Cassette)

Coating(s) Low-noise; ferric
Packaging Hinged plastic box
Length/Price EC-20, \$4.19; EC-30, \$4.29; EC-1, \$4.39; EC-3, \$4.49; EC-6, \$4.99; EC-12, \$5.99
Features Continuous play with or without special sensing foil for use in answering machines

A Note on Prices

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

Video

AKAI
Akai America, Ltd.
2139 E. Del Amo Blvd.
Compton, Calif. 90224

Akai
Format VK-30, 1/2-in. cassette (black & white); VTC-25C, 1/4-in. reel (color)
Coating(s) Ferric oxide
Length/Price VK-30, 30 min., \$18; VTC-25C, 26 min., \$13

AMPEX
Ampex Corp.
401 Broadway
Redwood City, Calif. 94063

Ampex
Format Beta
Coating(s) Ferric oxide
Length/Price L-250, 60 min., \$13.49; L-500, 120 min., \$16.95

BASF
BASF Systems, Inc.
Crosby Drive
Bedford, Mass. 01730

BASF
Format Beta
Coating(s) Chrome
Length/Price L-500, 60 min., \$16.95; L-750, 120 min., \$20.95

BASF
Format VHS
Coating(s) Chrome
Length/Price T-60, 120 min., \$17.95; T-120, 240 min., \$24.95

FUJI
Fuji Photo Film USA, Inc.
350 Fifth Ave.
New York, N.Y. 10001

Beridox
Format Beta
Coating(s) Beridox
Length/Price L-125, 30 min., \$11.95; L-250, 60 min., \$13.25; L-370, 90 min., \$14.90; L-500, 120 min., \$17.50

Beridox
Format VHS
Coating(s) Beridox

Length/Price T-30, 30 min., \$15.50; T-60, 60 min., \$18.35; T-90, 90 min., \$22.95; T-120, 120 min., \$25.50

IRISH
Irish Recording Tape
270-278 Newtown Road
Plainview, N.Y. 11803

551
Format Beta
Length/Price 60 min., \$14.95; 120 min., \$19.95; 180 min., \$24.95
Features Sleeve-shrink wrapped

JVC
JVC America Co.
58-75 Queens Midtown
Expressway
Maspeth, N.Y. 11378

JVC
Format VHS
Coating(s) Ferric oxide
Length/Price T-30, 30 min., \$14.75; T-60, 60 min., \$16.95; T-120, 120 min., \$23.95

MAGNAVOX
Magnavox Consumer
Electronics Co.
1700 Magnavox Way
Fort Wayne, Ind. 46804

Magnavox
Format VHS
Coating(s) Ferric oxide
Length/Price AH-9202, 60 min., \$18; AH-9204, 120 min., \$25

MAXELL
Maxell Corp. of America
60 Oxford Dr.
Moonachie, N.J. 07074

Maxell
Format VHS
Coating(s) Epitaxial
Length/Price T-60, 60 min., \$19.95; T-120, 120 min., \$28.50

MEMOREX
Memorex Corp.
1600 Memorex Drive
Santa Clara, Calif. 95052

Memorex VHS
Format VHS
Coating(s) Ferric oxide
Length/Price Memorex, 30 min., N/A; Memorex, 60 min., N/A; Memorex, 120 min., N/A

PHILCO
GTE Consumer Electronics
700 Ellicott St.
Batavia, N.Y. 14020

VHS
Format Ferric oxide
Coating(s) SC-2100 (T-60), 60 min., \$19.95; SC-2101 (T-120), 120 min., \$28.95

QUASAR
Quasar Electronics Co.
Div. of Matsushita Electronics
Corp. of America
9401 West Grand Ave.
Franklin Park, Ill. 60131

Quasar
Format VHS
Coating(s) Ferric oxide
Length/Price VCT-60, 60 min., \$18.95; VCT-120, 120 min., \$26.95

Quasar
Format VHS
Coating(s) Ferric oxide
Length/Price VC-60, 60 min., \$18.95; VC-120, 120 min., \$26.95

RCA
RCA Consumer Electronics
600 N. Sherman Drive
Indianapolis, Ind. 46201

RCA
Format VHS
Coating(s) Ferric oxide
Length/Price VK-125, 120 min., \$18.95; VK-250, 240 min., \$26.95

SANYO
Sanyo Electric Co.
1200 W. Artesia Blvd.
Compton, Calif. 90220

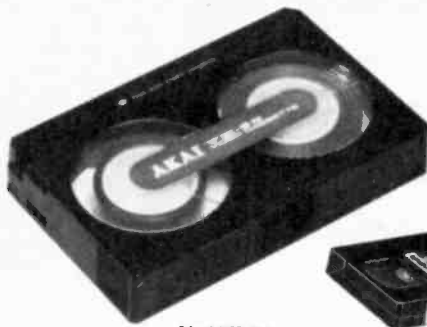
Sanyo
Format Beta
Coating(s) Chrome
Length/Price L-250, 60 min., \$12.45; L-500, 120 min., \$16.95; L-750, 180 min., \$20.95

Sanyo
Format V-Cord II
Coating(s) Cobalt-doped ferrous
Length/Price V-60, 60 min., \$14.95; V-120, 120 min., \$19.95

SCOTCH
3M
Magnetic Audio/Video
Products Div.
3M Center
St. Paul, Minn. 55101

Scotch
Format Beta
Coating(s) Chrome-compatible ferric oxide
Length/Price L-250, 30 min., \$12.75; L-500, 60 min., \$16.95

Scotch
Format VHS
Coating(s) Chrome-compatible ferric oxide
Length/Price T-60, 60 min., \$18.95



Akai VK-30



Magnavox VHS



Amplex L-250



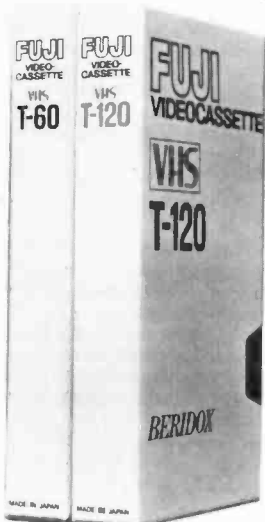
BASF T-120 and L-750



TDK-VHS T-60 and T-120



Quasar VC-120



Fuji T-60 and T-120



JVC T-30, T-60 and T-120



Scotch L-250 and L-500



Sony L-250

SEARS
Sears Roebuck Co.
Sears Tower
Chicago, Ill. 60684

Sears
Format Beta
Coating(s) Chromoxide
Length/Price 5325, 60 min., \$10.95; 5350, 120 min., \$15.95; 5375, 180 min., \$22.95

SONY BETAMAX
Sony Corp. of America
9 West 57th St.
New York, N.Y. 10019

Betamax
Format Beta
Coating(s) Chrome
Length/Price L-125, 45 min, \$10.95; L-250, 90 min, \$12.45; L-500, 180 min, \$16.95; L-750, 270 min, \$20.95

Features Blister pack available; compatible with all Beta-format video tape recorders

SYLVANIA
GTE Consumer Electronics
700 Ellicott St.
Batavia, N.Y. 14020

Sylvania
Format VHS
Coating(s) Ferric oxide
Length/Price SC-2100 (T-60), 60 min., \$19.95; SC-2101 (T-120), 120 min., \$28.95

TDK
TDK Electronics Corp.
755 Eastgate Blvd.
Garden City, N.Y. 11530

TDK
Format Beta
Coating(s) Ferric (Super Avilyn)
Length/Price BAL-250, 60 min, \$14.95; BAL-500, 120 min, \$19.95

TDK
Format VHS
Coating(s) Ferric (Super Avilyn)
Length/Price VAT-30, 30 min, \$17.30; VAT-60,

60 min, \$20.00; VAT-90, 90 min, \$24.50; VAT-120, 120 min, \$27.95

TOSHIBA
Toshiba America, Inc.
280 Park Ave.
New York, N.Y. 10017

Toshiba
Format Beta
Coating(s) Chrome
Length/Price L-250, 60 min., \$12.45; L-500, 120 min., \$16.95; L-750, 180 min., \$20.95

ZENITH
Zenith Radio Corp.
1000 Milwaukee Ave.
Glenview, Ill. 60025

1
Format Beta
Coating(s) Chrome
Length/Price L-500, 180 min, \$16.95; L-750, 270 min, \$20.95; L-830, 300 min, \$22.95

System Accessories

(including Tape & Phono Care products)

ACE AUDIO

Ace Audio Co.
532 Fifth St.
East Northport, N.Y. 11731

4000 Subsonic Filter

Description Sharp-cutoff filter (18 dB/octave below 20 Hz) eliminates effects of record warps, tonearm/cartridge resonances, accidental stylus drops, and infrasonic rumble; circuitry has unity-gain IC op amp with full feedback, Class A operation, and self-contained power supply; high-input impedance, low output impedance

Price \$89.50 (wired)/\$59.25 (kit)

5050 Electronic Speaker Protector

Description Continually monitors amplifier output terminals and opens the speaker line when overload occurs

Price \$89 (wired)

5000 Electronic Crossover

Description Designed especially for operation with any speaker system and a subwoofer; crossover at 100 Hz/18 dB/octave (other frequencies available at additional charge of \$10; subwoofer level control; built-in bridging amplifier; distortion less than 0.025%; noise, -90 dB; defeat switch; crossover frequencies determined by accurate precision components

Price \$74.50 (kit)/\$125 (wired)

6000 Electronic Crossover

Description Choice of 15 frequencies from 200 Hz to 10 kHz at 12 dB/octave; custom frequencies available for additional \$10; frequency components mounted on plug-in module; 2 tweeter-level controls; low distortion and noise; can be used with horn or dynamic speakers; adaptable to biamp or triamp operation

Price \$64.75 (kit)/\$90 (wired)/ \$27.50 (plug-in module)/ 220-volt models, \$5 more

ADCOM

Adcom
11A Jules Lane
New Brunswick, N.J. 08901

Electronic Static Eliminator

Description Piezoelectric static eliminating instrument; dual-emission chambers for wider dispersion and damped trigger for consistent effectiveness

Price \$19.95

Record Care System

Description Self-contained record-cleaning system consisting of two unidirectional brushes; one brush damp cleans the record surface, the other removes excess fluid; weighted to provide correct pressure

Price \$19.95

Carbon-Fiber Record Sweep

Description Easy-to-use dust remover and static reducer; thousands of conductive fibers sweep accumulated dust from record surface softly

Price \$14.95

Carbon-Fiber Headshell

Description Low-resonance low-mass carbon-fiber headshell features non-tarnishing gold-plated terminal pins for low loss and exceptional reliability

Price \$11.95

Carbon-Fiber Turntable Pad

Description Felt-like material impregnated with electrically conductive carbon fibers dissipates accumulated static electricity on records; also acts as an anti-resonance filter between turntable and tonearm

Price \$9.95

ADD 'N STAC
Royal Sound Co., Inc.
248 Buffalo Ave.
Freeport, N.Y. 11520

Record Add 'N Stac

Description Plastic storage unit holds up to 30 12" LP records in Philips-type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in decorator black; pre-drilled holes in the back of every module facilitate hanging

Price \$8

Beta Add 'N Stac

Description Plastic storage unit holds 6 Beta-format video cassettes in Philips-type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging

Price \$7

VHS Add 'N Stac

Description Plastic storage unit holds 6 VHS format video cassettes in Philips-

type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging

Price \$7

Cassette Add 'N Stac

Description Plastic storage unit holds 8 cassettes in Philips-type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging

Price \$2.50

8-Track Add 'N Stac

Description Plastic storage unit holds 6 8-track cartridges in Philips-type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging

Price \$2.50

AKAI

Akai America, Ltd.
2139 E. Del Amo Blvd.
Compton, Calif. 90220

AH-15 Tape Head Demagnetizer

Description Designed especially for use with GX heads

Price \$29.95

AS-3 Tape Splicer

Price \$5.00

CHR-1 Head Cleaning Fluid

Price \$2.10

AUDIO ACCESSORIES

A. Bee Sundicate, Inc.
230 Fifth Ave.
New York, N.Y. 10001

C-25 Record Cleaner

Description Insert record into envelope-like device, which cleans both sides at a time; no batteries required; removes dust and finger smudges; cleaning pads easily replaced

Price \$9.99

AUDIO AIDS
Audio Works
840 Piner Road, Suite 14
Santa Rosa, Calif. 95401

Speaker Stands

Description Crafted from American Walnut hardwood and veneers; speakers are elevated 9" to improve bass detail on open-air design; wires are hidden from view; speakers can be aimed by angling back or sitting level

Price \$36/pr. (\$23/pr. black finish, angle only)

AW-400 Stylus Cleaner

Description Handcrafted from American Walnut; uses a dense cleaning fabric drawn tightly over a metal form to provide a smooth surface that will not tangle with stylus cantilever

Price \$ N/A

AW-300 Walnut Record Cleaner

Description Handcrafted from American walnut hardwood and the finest cleaning fabric; each handle is hand-sanded, oiled and rubbed; may be used without any solution for light dust removal, but works best with AW-100 Cleaning Solution; after fabric surface is treated, the record is revolved under the record cleaner while the fabric surface is rolled against the direction of record travel

Price N/A

AW-200 Record Cleaner

Description Designed to be used dry for light dust removal or with AW-100 Cleaning Solution for best cleaning and static reduction; after bristles are treated, the fabric surface is rolled against its direction of travel along the record grooves

Price N/A

AW-100 Individually Calibrated Cleaning Solution

Description Each bottle individually tested and guaranteed to be lower in residue than any solution on the market; antistatic and wetting agents to reduce viscosity; cleaning agents and germicides inhibit microscopic mold and bacteria growth; treated surfaces will reduce dust clinging static and thoroughly remove debris

Price N/A

AUDIO DEVELOPMENTS INTERNATIONAL

Audio Developments International
644 Emerson St.
Palo Alto, Calif. 94301

1000 Audio Spectrum Analyzer

Description Real-time spectrum analyzer with 10-band LED readout, built-in precision noise generator, supplied condenser calibrated microphone, and two memories for "freeze-frame" snapshots of display

Price \$985

AUDIO GROOME
Empire Scientific Corp.
1055 Stewart Ave.
Garden City, N.Y. 11530

The Dry System Kit

Description All components necessary for complete day-to-day record and stylus care; includes static eliminator, dust eliminator, stylus cleaning fluid with brush, standard headshell, screw driver; housed in solid mahogany base with dust cover

Price \$79.95

Static Eliminator

Description Pistol-shaped device; no batteries needed; produces ion stream to neutralize static charges on records

Price \$39.95

Disco-Film

Description Gel-like non-toxic chemical is applied directly to the record surface; dry film is peeled off, removing surface dirt; one container does 70 sides (35 lps)

Price \$29.95

Dust Eliminator

Description Carbon fiber bristles remove, trap, and lift off dust and debris from record grooves; neutralizes static hot spots

Price \$19.95

Gold Ended Cables

Description Shielded low-capacitance cables with gold-plated RCA connectors; 1.5 meters (5'11") long; will replace most existing cables; separate ground wire minimizes ground loops

Price \$10.95

Anti-Static Mat

Description Carbon-fiber impregnated record mat discharges static charge from record surface; can replace existing turntable mat; stroboscopic markings on mat

Price \$8.95

High-Definition Silver Cartridge Connectors

Description 30 strands of individually insulated silver wire with gold-plated push-on connectors on each end; improved "skin-effect" for improved transmission of high frequencies (set of four)

Price \$7.95

Stylus Cleaning Fluid and Brush

Description Fluid specifically designed to remove accumulation of dirt on styli; special cleaning brush included

Price \$3.95

Anti-Static, Anti-Dust Record Sleeves

Description Replacement sleeves for records; lined with a special vinyl film to minimize static charges and collection of dust on record's surface

Price \$2.50 (package of 10)

AUDIONICS OF OREGON
10950 S.W. 5th, #160
Beavertown, Ore. 97005

RVP-RUR Electronics

Description Replacement record and playback electronics for Revox A-77; improves headroom, lowers distortion, improves S/N; user-replaceable

Price \$375

AVF

Osawa & Co. (USA), Inc.
521 Fifth Ave.
New York, N.Y. 11017

Universal Vari-Tilt Speaker Stand

Description Raises speaker 10 inches above floor to eliminate bass boominess; tilts speaker to any angle for precise dispersion; includes swivel casters; black nylon finish

Price \$74.95/pr.

Mark IVAC Speaker Stand

Description Raises speaker 10 inches above floor; eliminates bass boominess; tilts speaker slightly backward to improve high-frequency dispersion; holds most home speakers; includes swivel casters; black nylon finish

Price \$49.95/pr.

Universal Speaker Wall Bracket

Description Holds up to 14-inch-deep, 30-lb. speakers; adjustable padded clamp holds speaker, swivels horizontally and vertically; black nylon finish

Price \$39.95/pr.

BANG & OLUFSEN

Bang & Olufsen
515 Busse Road
Elk Grove Village, Ill. 60007

MC-40 Music Cabinet

Description Genuine rosewood, teak, or oak finish veneer; low profile cabinets for complete Beosystem; compartment for receiver, turntable, cassette deck, headphones and records; measures 24 $\frac{3}{4}$ " x 54" x 16"

Price \$595

MC-30 Music Cabinet

Description Same as MC-40 except turntable goes on top; measures 24 $\frac{3}{4}$ " x 33 $\frac{3}{4}$ " x 16"

Price \$495

B.I.C.

B.I.C./Avnet
South Service Road
Westbury, N.Y. 11590

FM-10 Beam Box

Description Indoor electronically directable FM antenna

Price \$89.95

FM-8 Beam Box

Description Indoor electronically directable FM antenna
Price \$49.95

CAR-FI

Car-Fi International, Inc.
 152 W. Cypress Ave.
 Burbank, Calif. 91502

EXV-100 Electronic Crossover

Description Designed for car stereo systems; six selectable crossover frequencies at 100, 200, 400, and 800 Hz, 1.6, and 3.2 kHz, as well as a flat setting; all BIFET circuitry for low noise and distortion; balance control between high/low outputs
Price \$49.95

CERWIN-VEGA

Cerwin-Vega, Inc.
 12250 Montague Ave.
 Arleta, Calif. 91331

DB-10 Bass Turbocharger

Description Infrasonic filter/bass booster eliminates infrasonic distortion and noise below 20 Hz while boosting information in 30 to 45 Hz range by 5 or 10 dB; allows doubling of power handling capacity of Cerwin-Vega speakers
Price \$90

CROWN

Crown International
 1718 W. Mishawaka Road
 Elkhart, Ind. 46514

RTA-2 Real Time Audio Analyzer

Description Spectrum analyzer with built-in pink noise generator; 5-inch CRT display; 1-octave and 1/3-octave display; system frequency range checks; tape recorder equalization analysis; 16 Hz to 20 kHz bandwidth; 60 dB dynamic range; optional shipping case
Price \$2,195

DB SYSTEMS

DB Systems
 P.O. Box 187
 Jaffrey Center, N.H. 03454

DB-7 Precision Phase Inverter

Description Bandpass filter and bridging adapter
Price \$150

DBP-11 Capacitance Loading Switching Box

Description Switch-selectable loading for values from 100 to 400 pFd with bypass; independent loading for 2 cartridges
Price \$80.20

DBP-6 Phono Equalization Kit

Description Allows adding capacitance from 100 to 400 picoFarads on the phono input of any preamp or receiver in a few seconds; changes in capacitance can be made quickly; 100-ohm load provided for experimentation with "Y" adapters, a set of phono plugs with polystyrene capacitors wired-in to give added capacitance of 100, 150, 200, 300, and 400 picoFarads, metal film resistors for a 100-ohm load, and a pair of spare plugs
Price \$24.95

DBP-10 Phono Alignment Protractor

Description Measures lateral tracking error of cartridge mounted on an arm to one-quarter of one degree; instructions provided to optimize geometry for minimum distortion
Price \$19.95

DBP-8 Speaker Wire

Description 12-gauge 2-conductor wire
Price \$7.35, 10'; \$11.50, 20'; \$15.36, 30'

dbx (a BSR Co.)

71 Chapel St.
 Waltham, Mass. 02195

3BX-R Remote Control

Description Increases flexibility of the 3BX by providing remote control of transition level, release time, and expansion ratio, plus master volume and fade controls
Price \$149

DECCA

Rocelco, Inc.
 1669 Flint Rd.
 Downsview, Ontario M3J 2J7

"Zero Control" Decca Record Brush

Description Conductive disc on handle gives zero ohms resistance between handle and bristles for improved static drain; other features similar to Decca record brush
Price \$18.95

Decca Record Brush

Description Consists of one million conductive carbon fiber bristles, each 8 to 9 microns thick; bristles enter record grooves to remove dust and static; uses no fluids
Price \$16.95

Decca Record Cleaner

Description Arm-type cleaner; 20,000 conductive carbon fiber bristles; ground wire to amplifier chassis for complete static drain; interchangeable cleaning bristles
Price \$16.95

Decca Microbe

Description Three-way cleaning static-drain stylus protection device; mounts between cartridge and headshell; adds only 1/2 gram to vertical tracking force; fits most cartridges
Price \$9.95

DENNESEN

Dennesen Electronics
 P.O. Box 51
 Beverly, Mass. 01915

Soundtractor

Description Protractor for correctly aligning phono cartridges in tonearms within 0.001 inches; allows measurement of relative changes in vertical tracking angle
Price \$35 (plastic); \$100 (metal)

DISCWASHER

Discwasher Group
 1407 N. Providence Road.
 Columbia, Mo. 65201

DiscKeeper

Description Record rack with calculated compression bar to prevent warpage; made of solid walnut and anodized aluminum; wall-mounting hardware included
Price \$65

DiscKit

Description Disc organizer with discwasher pad, D3 fluid; SC-1 stylus cleaner, Zerostat, and DC-1 pad cleaner; DC-1 also sold separately for 60¢
Price \$46

DiscTraker

Description Tonearm/cartridge damper; attaches to headshell
Price \$29

DiscFoot

Description Turntable isolation system consisting of four isolation pods, four furniture-protective pads, four platform caps for attachment to turntable feet, and four special damping sections to adapt units to certain turntables
Price \$22

Zerostat

Description Antistatic gun
Price \$20

Discwasher System

Description Record-cleaning system consisting of soft-pile brush with D3 fluid in plastic bottle stored in handle
Price \$15

DiscOrganizer

Description Walnut storage tray with dust-cover; holds Discwasher record accessories
Price \$12.50

D-Stat II

Description Soft, felt-like turntable mat reduces electrostatic charges on turntable
Price \$8.50



Ace 4000



ADI 1000



Add'n Stac



Audio Groome Static Eliminator

Gold-Ens

Description Gold-plated connector cables
Price \$8

SC-1 Stylus cleaner

Description Special brush of calculated-density nylon; magnifying mirror for viewing stylus, cantilever, and cartridge alignment; brush and mirror retract into walnut case for storage
Price \$7

Hi-fi Seer Audio Equipment Illuminator

Description Integral flashlight and mirror system to illuminate back panels of equipment; positive locking on/off switch; illuminates in three directions
Price \$7

DiscLeads

Description Cartridge/headshell connectors with gold surface
Price \$5.60

V.R.P. Record Sleeves

Description Smooth surface for scratch-free record removal; protects against "stabilizer drift"; antistatic compound reduces surface charge 80% over typical sleeves
Price \$2.75 (package of 10)

D3 Fluid

Description Special fluid removes micro-dust, fingerprints, tobacco smoke; eliminates destructive biological growth; leaves no residue
Price \$2.25

DRACO

Draco Labs, Inc.
 1005 Washington St.
 Crafton, Wisc. 53024

Power meter

Description Variable peak-hold; wide dynamic range; 2 power range; record monitor
Price \$150

DUOTONE

Duotone Company, Inc.
 6875 S.W. 81st St.
 Miami, Fla. 33143

Duotone Duo-Stat DU-S1

Description Antistatic compound in sponge prevents static buildup; needle brush included for cleaning
Price \$3.99

TCK-1

Description Auto and home tape care kit includes cleaning/lubricating solution, 10" cotton swabs, brush, cloth, and dust clips
Price \$3.50

FALCON

Falcon Safety Products, Inc.
 1065 Bristol Road
 Mountainside, N.J. 07092

The Dust Fighters (FGK)

Description Variable-controlled air gun products in one kit; includes Dust-Off with trigger assembly, one refill, Pocket Dust-Off, plus flexible extension nozzle
Price \$25.45

Dust-Off (FG)

Description 14-oz. variable-controlled air gun for cleaning records, tapes, and stylus tips; non-contact method of cleaning records, tapes, stylus tips, even those hard-to-reach
Price \$17; \$3.50 for refills

Dust-Off Junior (FGJ)

Description 7.4 oz.
Price \$3.65

Dust-Off Extension Nozzle (FGN)

Description Accessory for Dust-Off and Dust-Off Junior variable controlled air guns; 2-foot chrome-tipped flexible extension nozzle
Price \$3.50

Pocket Dust-Off (FGP)

Description 3 oz.
Price \$1.95

GARRARD

Garrard/Plessey Consumer Products
 100 Commercial St.
 New York, N.Y. 11803

MRM 101 Music Recovery Module

Description Electronically identifies and suppresses pop, clicks and scratch sounds from records prior to connection to amplifier
Price \$219.95

GOLDRING

Hervic Electronics, Inc.
 18750 Oxnard St., #406
 Tarzana, Calif. 91356

Ex-Static Carbon Fiber Platter Pad

Description Dual-purpose pad impregnated with carbon fibers to short out static charges on disc and isolate disc from turntable noise; put side to be played on the pad; turn over prior to play
Price \$15

Ex-Static Carbon Fiber Record Brush

Description Over 1,00,000 fine carbon fiber bristles (electrically conductive) short out static bond between disc and dust; bristles sweep away dirt and static noise; detachable metal bracket drilled for mounting; brush cleaner on bracket
Price \$15

GROOVE TUBE

Groove Tube, Inc.
 59 Remington Blvd.
 Ronkonkoma, N.Y. 11779

Groove Tube II "The Ultimate Record Cleaner"

Description Walnut finish with velvet preener on top; cylinder shaped and completely replaceable with inexpensive refill kit
Price \$14.95

Groove Tube "Instant Record Cleaner"

Description Dab fluid on disc while it is rotating; wipe with velvet buffing pad on side of applicator
Price \$5.49

GRT DESIGN
GRT Design (Div. of GRT Corp.)
 1286 Lawrence Station Rd.
 Sunnyvale, Calif. 94086

"Deluxe" Tape Maintenance Kit

Description Includes demagnetizer (UL approved), 10 cotton swabs, untreated cleaning cloth, 2 oz. head-cleaner fluid containing 20% isopropyl alcohol, 0.05% detergent, demineralized and deionized water, and "How to" booklet
Price \$17.95

"Deluxe" Record Care Maintenance Kit

Description Includes 4 oz. Sound Cleaner record cleaner, 2 oz. Stylus Cleaner, Stylus Mirror, 2 oz. record cleaning solution, and "How To" booklet
Price \$15.95

Head Demagnetizer

Description All-purpose head demagnetizer; interchangeable tips (UL approved)
Price \$14.95

"Sound Cleaner" Record Cleaner

Description Smoked plastic bottle with hand-grip; pump and spray action with brush pad, which is attached to bottle for wet cleaning but can be removed for dry cleaning purposes; refillable
Price \$12.95

Cassette Demagnetizer and Cleaner

Description Removes oxide deposits and residual magnetism from heads
Price \$4.95

Cleaning Tonic

Description Contains isopropyl alcohol, detergent, demineralized and deionized water; 4 oz.
Price \$3.95

"Dustbuster" Record Cleaner

Description White triangular bottle with pump and brush pad; single unit construction; 4 oz. bottle is refillable
Price \$3.95

Stylus Cleaning Kit

Description Contains 2 oz. bottle with brush applicator enclosed in cap of bottle and "dental" mirror
Price \$3.95

GRUNDIG
LAS Electronics East, Inc.
 85C Saratoga Blvd.
 Island Park, N.Y. 11558

GRA-3000 Presetter

Description 5-pushbutton option; AM or FM
Price \$39

GAA-1100 Impedance Matching Cable

Description For one-piece stereo; adapts 2 x 20-watt amplifier
Price \$9.80

GCA-7015 ESO accessory cable

Price \$7.80

GCA-4020 Speaker

Description 8' cable with plug
Price \$1.40

HERVIC

Hervic Electronics, Inc.
 18750 Oxnard St. #406
 Tarzana, Calif. 91356

Antistat

Description Piezoelectric record brush; piezoelectric generator produces ionized air to break dust's static bond with record, brush then removes dirt from disc; no batteries; non-nuclear
Price \$14

KA/KINETIC

KA/Kinetic Audio Intl., Ltd.
 66244 W. Irving Park Road
 Chicago, Ill. 60634

Walnut-Finish Rack Mount

Description Rack mount made of non-warping, 1" thick genuine walnut veneer panels with tung oil finish; choice of two standard rack rails or three shelves (customer mounted); 13" space for record storage at bottom; 4 premounted castors; 125 lbs. ship. wt.; 48H x 21W x 18D
Price \$249

High Tilt Stands

Description Three models of stands; can be used for KA speakers or any others; "Small" for miniature and small speakers; "Medium" for bookshelf and moderate sized floor standing speakers; "Large" for most big speakers
Price \$39/pr. (small); \$49/pr. (medium); \$59/pr. (large)

KEITH MONKS

Keith Monks Audio
 652 Glenbrook Rd.
 Glenbrook, Conn. 06906

Record Cleaning Machine

Description Quickly removes all dirt and static from the record surface by scrubbing surface, then completely drying the record through a precision vacuum; consumer version available soon
Price \$1,885.84

Record Sweeper

Description Grounded brush rests lightly on the record surface removing dust and static while the record plays; ad-

justable height and tracking weight; uses nonresonating animal hair in brush and copper wires to pick off static without touching record surface

Price \$124.15

Pivot Sweeper

Description Same as Record Sweeper, except allows user to permanently attach base of unit to turntable and still remove brush arm
Price \$20.75

Damped Leveling Kit

Description Four adjustable, self-adhesive, damped feet designed to level turntable as well as prevent feedback
Price \$16.95

Record Weight

Description Round disc fits over spindle of single play turntables; weight (just under a pound) adds stabilization to turntable system while eliminating record warp and holding record firmly to the platter to eliminate record chatter while the record is playing; 60-cycle strobe mounted on top surface
Price \$13.70

Record Care Kit

Description Contains plastic holder with velvet pad specially treated for removing dust from the record surface; few drops of antistatic solution are placed in the plastic handle to remove static without wetting the record surface; stylus brush also stored within the plastic handle
Price \$7.64

LE-BO

LE-BO Products Co., Inc.
 58-60 Grand Ave.
 Maspeth, N.Y. 11378

VCN-1002 Video Tape Cabinet

Description Holds 12 VHS or Betacord cartridges; made of wood
Price \$44.95

TA-153 Tape Storage Cabinet

Description Holds 32 8-track cartridges or 34 cassette tapes; made of wood
Price \$29.95

TA-266 Deluxe Attache Cassette Case

Description Holds 60 tapes; available in black, brown, and ginger finishes
Price \$21.95

TA-145-Deluxe Padded Attache Case

Description Holds 45 tapes; available in brown, black, and ginger finishes
Price \$19.95

TA-133 Deluxe Padded Attache Case

Description Holds 30 tapes; available in black, brown, and ginger finishes
Price \$14.95

MAGNAVOX
Magnavox/Consumer
Electronics Co.
1700 Magnavox Way
Pt. Wayne, Ind. 46804

8241 Video Camera

Description Lens, 6X, f/2 zoom lens (17mm to 102mm); electronic viewfinder (LED readouts for correct iris setting); AGC on/off switch; battery compartment; tripod mount; omnidirectional condenser microphone; VCR start/stop switch; equipment includes 20' camera cable, daylight filter, power supply

Price \$1,295

MICHELL ENGINEERING

Dick Wagner
5930 Penfield Ave.
Woodland Hills, Calif. 91367

Record Clamp

Description Suede covered spindle clamp with strobe markings; fits any standard turntable spindle; holds record flat, removes small warps

Price \$30

Carbon Wire Sweep Arm

Description Finest squirrel hair dust brush with carbon grounding wire filament; adjustable tracking weight

Price \$20

MITSUBISHI

Melco Sales, Inc.
3030 E. Victoria St.
Compton, Calif. 90221

DR-720 Equipment Rack

Description Vertical equipment rack with 5 component shelves and record storage; two pairs of glass doors provide access to the upper and lower compartments; finished in black with aluminum trim

Price \$380

DR-707 Equipment Rack

Description Vertical equipment rack with glass doors and four component shelves; finished in black with aluminum trim

Price \$280

DA-M10 Power Level Meters

Description Designed for use with all Mitsubishi power amps; may be "docked" physically and electrically with each unit; peak-reading meter scales calibrated from 1 mW to 200 W; front-panel range switch increases sensitivity by 10 (readings from 0.1 mW to 20W) frequency response 20Hz-20 kHz, ± 0.2 dB; THD 0.01%; S/N 100 dB; gain 0 dB (variable); input/output impedance 50K ohms/600 ohms; response/recovery time 10m sec/0.6sec, front panel controls include power on/off, right and left channel level and speaker selector switch

Price \$170

MK-30 Speaker Stand

Description Designed for use with the Mitsubishi Honeycomb Speaker Series; finished in flat black

Price \$55/pr.

MONSTER CABLE

The Monster Cable Co.
101 Townsend St.
San Francisco, Calif. 94107

Monster Cable High Definition Speaker Wire

Description A heavy gauge dual parallel conductor speaker cable designed to optimize the interface between amplifier and speaker; over 500 individual strands of copper in a flexible clear vinyl jacket

Price MC-15/15 stereo pair, 15 ft. ea., \$20; MC-15/25 stereo pair, one 15 ft. plus one 25 ft., \$25; MC-20/20 stereo pair, 20 ft. ea., \$25; MC-20/30 stereo pair, one 20 ft. plus one 30 ft., \$30; MC-500 professional spool, custom cut and terminated by dealer or installer, 60¢/foot

NAKAMICHI

Nakamichi USA Corp.
1101 Colorado Ave.
Santa Monica, Calif. 90401

T-100 Audio Analyzer

Description Compact tape deck "test bench" includes oscillator with 21 frequencies from 20 to 20 kHz, pink-noise generator, distortion analyzer (400 Hz), A-weighting noise filter, 3 kHz wow-and-flutter/speed-accuracy meter; dual plasma bar-graph displays with peak (10 msec.) or "VU" (0.3 sec.) ballistics; watt-scale graticule for power readings; carrying case and strap included

Price \$800

SF-100 Subsonic Filter

Description "BlackBox Series" Subsonic Filter connects to system at line level (in tape monitor loop, between pre and power amp, etc.); 30 Hz to 100 kHz ± 0.5 dB; -50 dB at 10 Hz with filter "in"; "low boost" position provides +5 dB at 30 Hz falling to -40 dB at 10 Hz; THD under 0.005% from 50 Hz to 20 kHz; S/N better than 110 dB (IHF-A); requires PS-100 Power Supply

Price \$75

DM-10 Head Demagnetizer

Description Compact demagnetizer uses 117 VAC household power; on/off switch built into handle; specially designed, coated tip for easy use, especially with cassette decks

Price \$20

OSAWA

Osawa & Co. (USA), Inc.
521 Fifth Ave.
New York, N.Y. 10017

Diskmat

Description High mass turntable mat reduces noise transfer from motor, minimizes feedback, lessens wow and flutter; makes slightly warped records playable; reduces rumble; eliminates platter ringing

Price \$25

PERMOSTAT by STANTON

Stanton Magnetics, Inc.
200 Terminal Drive
Plainview, N.Y. 11803

Permostat by Stanton

Description Fluid; eliminates static electricity permanently; each kit provides protection for 25 records (both sides)

Price \$19.95/kit; \$15.95/refill kit

PHASE LINEAR

Phase Linear Corp.
20121 48th Ave. W.
Lynnwood, Wash. 98036

1200 Series Two Real-Time Analyzer

Description Precision room-analyzing instrument consisting of 12-band display and filter bank satisfying ANSI standards, accurate pink noise generator, and calibrated microphone

Price \$799.95

PIONEER

Pioneer Electronics of America
1925 East Dominguez St.
Long Beach, Calif. 90810

AB-307 IC Noise Suppression System

Description Reduces static and multipath distortion; plug-in installation; for use with new Pioneer car radio/tape players

Price \$34.95

PIXOFF

Sonic Research, Inc.
27 Sugar Hollow Rd.
Danbury, Conn. 06810

Pixoff Record Cleaner

Description Dry cleaner for phono records; roller-type device uses roll of special tape to clean discs; new tape surface exposed by cutting and peeling off dirty layer

Price \$17.50

PREMIER

Sumiko
P.O. Box 5046
Berkeley, Calif. 94705

FF-1 Head Amplifier

Description Provides pre-amplification for moving-coil cartridges; 2 phono inputs; DC powered; 3 gain settings; 2 high-frequency EQ positions plus EQ bypass; feed-forward circuitry

Price \$200

PSB

PSB Speakers, Inc.
P.O. Box 144
St. Jacobs, Ontario
Canada N0B 2N0

The PSB Speaker Stand

Description Finished in black vinyl; tilts back speaker; 15 lbs. a pair

Price \$50/pr.

The Smaller PSB Speaker Stand

Description Finished in black vinyl; tilts back speaker; 15 lbs. a pair

Price \$50/pr.

PYRAMID

Pyramid Landspeaker Corp.
131-15 Fowler Ave.
Flushing, N.Y. 11355

RW-1 and RW-2 Record Weights

Description 2 lbs. 30 oz. and 1 lb. 2 oz., respectively; prevents B record from vibrating by weighting it down; stainless steel.

Price \$75 (RW-1); \$60 (RW-2)

QUASAR

Quasar Electric Co.
Div. Matsushita Electric Corp. of America
9401 West Grand Ave.
Franklin Park, Ill. 60131

VK-720 Color Video Camera

Description 6X power zoom

Price \$960

VK-715 Color Video Camera

Description 6X zoom

Price \$850

VK-705 Color Video Camera

Price \$660

QUIETONE

Hammond Industries, Inc.
155 Michael Drive
Syosset, N.Y. 11971

AK-47B Quietone Record Care Aerosol Spray

Price \$11.95

AK-4B Quietone Record Care Aerosol Spray

Description Complete record care kit in a can; renders discs static free for the life of the record; lubricates and preserves records and styli, increasing their life up to five times; solvent loosens and dislodges compacted microdust, thereby restoring old and noisy records; 4 oz.

Price \$7.95

REALISTIC Radio Shack Corp. 1400 One Tandy Center Ft. Worth, Texas 76102

Pro Power Meter

Description Monitors output of stereo comp or receiver; large easy-to-read dual meters and LEDs; reads 0 to 200 watts rms at 8 or 4 ohms; vinyl veneer case

Price \$49.95

Audio Power Meter

Description Monitors output of stereo amp or receiver; large, easy to read dual meters respond to short sound peaks; reads 0 to 100 watts rms at 8 or 4 ohms; no power required; walnut vinyl veneer case

Price \$19.95

Turntable Shock Mounts

Description Dampens external vibrations that may be transmitted to tonearm; reduces associated distortion

Price \$17.95

Electronic Static Eliminator

Description Piezoelectric element and dual emission chambers disperse static charges on records; uses no batteries, liquids or external power

Price \$14.95

Illuminated Tape-Head Demagnetizer

Description For all tape equipment; lighted tip

Price \$12.95

Disc Sweeper

Description Carbon-fiber brush penetrates groove for safe, dry cleaning; reduces static

Price \$9.95

Hydro-Store® Record Care System

Description Protects records and styli; composed of tiny glass beads, which retain cleaning fluid for weeks; cleaning fluid and stand included; solid rosewood handle

Price \$9.95

Professional Stylus Brush

Description Brushed aluminum cap and handle; easy-view mirror; fine-cleaning fibers; liquid included

Price \$8.95

Headphone Extension Cord

Description Coiled, 24' shielded cable; standard stereo plug on one end, standard stereo jack on other

Price \$7.99

Disc Saver

Description Preserves vinyl; virtually eliminates record wear

Price \$7.95

Universal Tape-Head Demagnetizer

Description Especially for hard-to-reach tape heads; interchangeable tips

Price \$7.95

Universal Tape Recorder Care Kit

Description Includes brush, straight and angled holder, mirror attachment to see around corners; over 50 possible tool combinations

Price \$6.95

Disc-O-Mat

Description Carbon-impregnated polyfoam mat; highly conductive; reduces static "chatter"; anti-resonant

Price \$4.95

Tape-Head Demagnetizer

Description Pencil shaped; for use with cassette and open-reel recorders

Price \$4.95

Stylus Microscope

Description Magnifies stylus tip for close inspection of diamond; detects dirt or wear; helps maintain life of stylus and promotes cleaner sound

Price \$1.99

RECOTON

Recoton Corp.
46-23 Crane St.
Long Island City, N.Y. 11101

AU-100 Audio Rack

Description 3 shelves; record section divider; chrome trim; walnut finish

Price \$79.99

V-100 Video Tape Cabinet

Description Holds 18 tapes Betamax or VHS

Price \$41.99

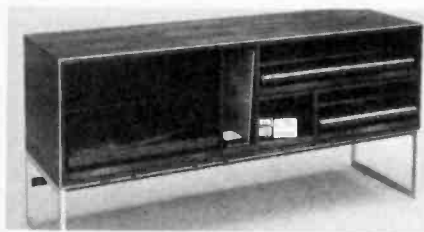
Clean Sound II Record Cleaning System

Description Includes wood handle applicator, Clean Sound Solution, special pad-cleaning brush; replaceable applicator pads; hinged, smoked plastic storage case

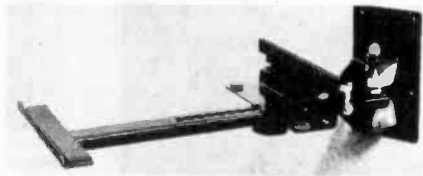
Price \$15

REFERENCE

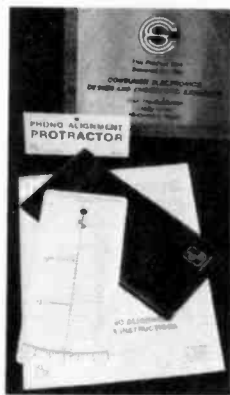
Reference Monitor International Inc;
2380 C Camino Vida Roble
Carlsbad, Calif. 92008



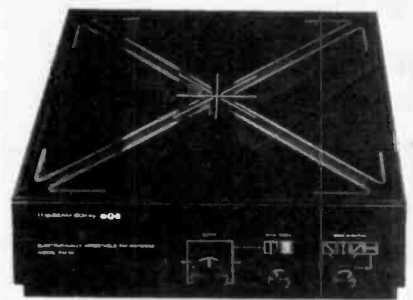
B & O MC-40



AVF Universal Wall Bracket



B.I.C. FM-10



DB Systems DBP-10

Spectra Disc Cushion

Description Triple layers of elastomers; surface is flat with properties that hold disc to cushion

Price \$49

Staticleaner Carbon-Fiber Disc Sweep

Description Arm of anodized metal removes static and dust while record plays; comes complete with static drain lead and lower base for B&O turntables

Price \$39.90

Statibrush Carbon-Fiber Disc Cleaner

Description Micro-fine carbon fiber conductive anodized handle allows greater conductivity; static and dust removal

Price \$16.90

ROBINS Robins Industries 75 Austin Blvd. Commack, N.Y. 11725

Model 25-011 Universal Head Demagnetizer

Description Hand-held; AC-powered; designed for intermittent duty (2 min. on, 15 min. off); comes with two tips (both with plastic shields)

Price \$9.95

SANSUI Sansui Electronics Corp. 1250 Valley Brook Ave. Lyndhurst, N.J. 07071

MA-7 Rack Mountable Monitor Console

Description Two-piece dual peak-hold meters read watts or dB; adjustable input sensitivity; 400 Hz/10 kHz calibration oscillator; amplifier for headphones or monitor speakers; two full-range monitor speakers; matte black finish

Price \$330

AX-7 Mixer

Description Four hi-Z mic inputs (2 switchable for guitar or line level) with in-

dividual 20 dB pads, level controls, pan pots, and selectable feed to reverb (spring); switchable hi-level sources may be post-mixed with primary mixer inputs; record mode switch for tuner, source, mixing busses, or tape dubbing (3 decks); separate monitor switching and master level controls; 2 additional switched output loops for outboard signal processors

Price \$300

MS-1 Microphone Boom Stand

Description Arm for stereo pairing; mic-mount screws at both ends of adjustable boom; 35 1/16 inches long; rotatable over a full 360 degrees; supplementary bar included (8 11/16 inches) to extend boom length to 43 11/16 inches; separate arm for mounting stereo pair of mics; collapsible stand for maximum mobility; four mic-mounting screws to accept different mic holders; special support bar; matte-black finish

Price \$200

RA-700 Reverberation Amplifier

Description Adjustable (1.9 to 3.2 sec.) with color visual indication; for use in preamp tape-loop circuit; handles 2 tape recorders; S/N: 65 dB; THD: 0.2%; frequency response: 20 Hz to 30 kHz, ± 2 dB

Price \$190

FA-7 Antenna System

Description FM/AM; omnidirectional AM antenna; picks up desired signals from 360-degree horizontal circle; improves AM signal-to-noise-ratio as much as 20 dB

Price \$110

PS-112C Speaker Cable

Description Widerange, high efficiency speaker cable; low power loss; frequency response: ± 0.5 dB from DC to 400 kHz; flat phase response (less than 10 degrees from DC to 300 kHz); formed on triaxial meshes: 2 conductors, 1 shield to improve high-frequency response; low reactance; ultra-wide, ultra-low inductance; DC to 400 kHz, ± 0.5 dB/14m; impedance: 12 ohms

Price \$100

PS-107C Speaker Cable

Description Similar to PS-112C

Price \$70

PS-2P Extension Plug Adapter

Description Same as PS-1P but has 4 outputs on other end

Price \$22

PS-1P Extension Plug Adapter

Description Low contact resistance; superb transfer characteristics; gold-plated contact surfaces to prevent oxidation; accepts tow pin cords (one stereo pair) on either end

Price \$18

PS-4C Stereo-Low Capacitance Pin Plug Cords

Description Same as PS-5C but pin plugs are gold-plated

Price \$14

PS-6C Stereo Low-Capacitance Phone Plug Cords

Description Ideal elasticity; low capacitance; low DC resistance; unplated, braided conductors; stereo phone plugs on one end, stereo pin plugs on the other

Price \$11

PS-5C Stereo-Low Capacitance Pin Plug Cords

Description Low stray capacitance of 40 pF/m and ultra-low DC resistance of 170 milli-ohms/m; shielding of outer conductors is densely braided to prevent external noise and FM/AM signals from affecting the signals you want to record or reproduce; unplated strands are braided for improved sound eliminating the effect that impedes the flow of high frequencies; pin plugs are nickel-plated to avoid oxidation and poor interface

Price \$11

PS-7C Mono Low-Capacitance Phone Plug Cord

Description Same as PS-6C but in mono

Price \$8

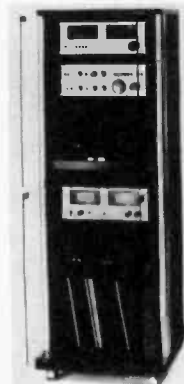
SANYO PLUS Sanyo Electric, Inc. Consumer Electronics Div. 1200 W. Artesia Blvd. Compton, Calif. 90220



Discwasher DiscKit



Falcon Dust-Off



Mitsubishi DR-720



GRT Dustbuster



Nakamichi DM-10



Scott 830Z



Phase Linear Model 1200



Sanyo E-55

PLUS N-55 "Super D" Noise Reduction System

Description Optimizes level sensing for superior audio performance; fluorescent peak-reading signal level meters; source/tape switch/MPX filter; companding noise reduction system; rack-mount capability: 11-3/4"H x 17-3/4"W x 11-3/4"D with 2:1 expansion/compression ratio; 40 dB tape noise reduction; 0.08% THD; load B dynamic range

Price \$359.95

Plus E-55 Computerized Programmable Timer

Description Microprocessor; companion to rackmount series; four switched AC outlets; large fluorescent display for clock time and program display; 9 programmable intervals in a 24 hour period

Price \$249.95

SCOTCH
3M
Magnetic Audio/Video
Products Div.
3M Center
St. Paul, Minn. 55101

Dustguard Turntable Mat

Description Antistatic mat of special conductive foam drains off static charges generated when record is pulled out of its sleeve; strobe pattern included

Price \$5.95

Cassette Caddy

Description C-Box car saddle with 5 boxes

Price \$9.95

SCOTT
H.H. Scott, Inc.
20 Commerce Way
Woburn, Mass. 01801

830A Audio Analyzer

Description Ten-octave; built-in multi-frequency signal generator; visually confirms frequency response or SPL; useful in verifying system performance, optimizing loudspeaker placement and tape recorder bias and equalization; includes external microphone and test record

Price \$599.95

SHURE
Shure Bros., Inc.
222 Hartrey Ave.
Evanston, Ill. 60204

SFG-2 Stylus Force Gauge

Description Precision stylus force gauge detects excessive or insufficient tracking force; allows precise re-setting of stylus force to maintain optimum trackability and sharply reduces wear on records and stylus tip

Price \$6.30

SME
Shure Bros. Inc.
222 Hartrey Ave.
Evanston, Ill. 60204

LCL-4 Low-Capacitance Cable

Description Four-foot, low-capacitance cable designed for use with Shure/SME Series II or 3012 arms; capacitance including tone arm wiring is 75 pF

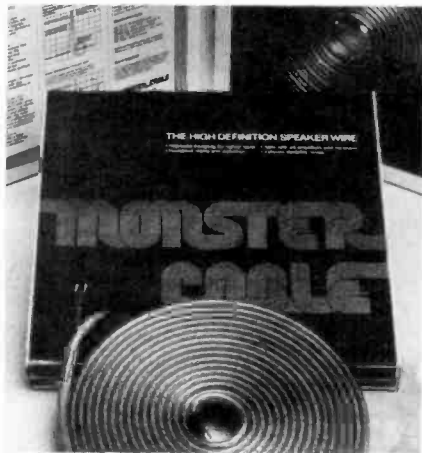
Price \$22.50

SONTEC
Sontec Electronics
10120 Marble Court
Cockeysville, Md. 21020

NFM-6X2 Microphone Mixer
Description Transformerless Mixer; 6 inputs, 2 outputs; precision-ganged master



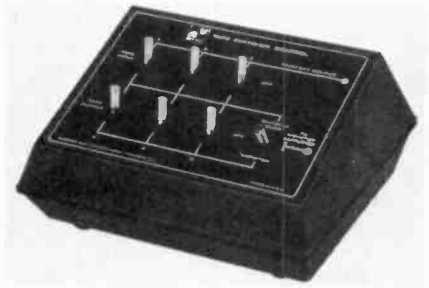
Quietone Record Care Aerosol



Monster Cable High Definition Speaker Wire



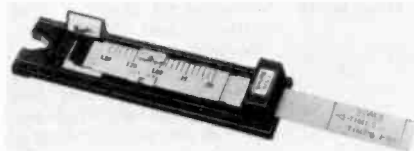
Permostat Record Preservative



Suprex TSB-3



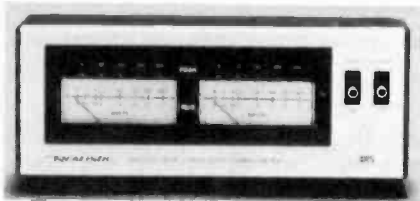
Sansui AX-7



Shure SF-62



Symmetry ACS-1



Realistic APM-200

level control; pan pots; phase reversal switches; provision for 48-volt phantom power

Price \$1,580

SONUS

Sonic Research, Inc.
27 Sugar Hollow Rd.
Danbury, Conn. 06813

Blue Standard Stylus

Description Pathemax
Price \$68

Red Standard Stylus

Description Elliptical
Price \$45

Green Standard Stylus

Description Conical
Price \$26.50

Silver P Standard Stylus

Price \$39.50

Silver E Standard Stylus

Price \$30

SOUND GUARD®

Ball Corp.
345 South High St.
Muncie, Ind. 47302

Total Record-Care System

Description Contains Sound Guard® preservative and Sound Guard® record cleaner, along with pump sprayers, pads, and sponges necessary for application

Price \$16.99

Record-Cleaner Kit

Description Contains Sound Guard® record-cleaner fluid (2 oz. bottle), pump sprayer, velvet cleaning pad, sponge, and foam grooming pad; removes particulate contaminants such as dust and lint as well as adherent film type contaminants such as fingerprints; cleaner retards static buildup

Price \$9.99

Record-Preservation Kit

Description Contains 2 oz. bottle of Sound Guard® preservative, a dry lubricant which reduces record wear without interfering with sound fidelity, along with a velvet buffer pad and non-aerosol pump sprayer; one application recommended per 25 plays; one 2 oz. bottle protects about 25 LPs

Price \$9.99

Stylus Care Kit

Description Contains all tools necessary for stylus maintenance; includes 1 oz. bottle of stylus cleaner, soft brush, bulb air blower for removal of particulates from cartridge shell, and 3x and 10x magnifier for stylus inspection

Price \$9.99

Record-Care Pad

Description Non-abrasive, lint-free pad which provides an ideal working surface on which to preserve and clean records; allows user to work on one side of a record while protecting the other side from harmful abuse; pad easily cleaned with soap and water

Price \$7.99

Record Buffer

Description High-density velvet pile brush can be used for dry cleaning (preening) or with Sound Guard® Record Cleaner

Price \$3.99

Static Detector

Description A device which alerts the user to

the presence of static buildup on records even before its presence results in audible noise

Price

\$1.99

STACK-RACK

Audio Works

840 Piner Road, Suite 14
Santa Rosa, Calif. 95401

Stack-Rack

Description

American walnut audio/video furniture; any equipment combination can be accommodated by stacking multiple units and adjusting shelf and record divider heights; leather-grain filler panels fit around equipment to hide-wires and give custom installation look; bronze tone fittings and all assembly tools included; measures 32 $\frac{1}{8}$ "H x 25 $\frac{1}{4}$ "W x 16 $\frac{1}{2}$ "D (full size); 14 $\frac{7}{8}$ "H x 25 $\frac{1}{4}$ "W x 16 $\frac{1}{2}$ "D (record size)

Price

\$190 (full size); \$90 (record size)

STRELIOFF

Strelloff Systems Designs

5305 Tendilla Ave.
Woodland Hills, Calif. 91364

EX-1 Electronic Crossover

Description

Four-way stereo capabilities with standard crossover points at 125 Hz, 800 Hz, and 5 kHz; independent level controls for each band-pass; modular design employs only discrete devices on plug-in circuit boards; 3 $\frac{1}{2}$ "H x 19" rack-mount chassis for professional and recording studio installations; requires Model RS-1 regulated power supply

Price

\$700

SUPEREX

Superex Electronics Corp.

151 Ludlow St.
Yonkers, N.Y. 10705

VTS-4 Video Tape Switcher

Description

2 $\frac{3}{4}$ "H x 6 $\frac{1}{4}$ "W x 4 $\frac{3}{4}$ "D; switching center for video decks allows simultaneous dubbing of audio and video onto 3 decks; RCA-type input and output jacks; linear to 50 MHz

Price

\$59.95

TSB-3 Switching Module

Description

Simultaneous or independent dubbing or recording of up to 3 decks; 2 sources may be isolated and recorded simultaneously; minimum switch life is 10,000 operations

Price

\$49.95

SYMMETRY

Symmetry Audiophile Systems

101 Townsend St.
San Francisco, Calif. 94107

ACS-1 Electronic Crossover

Description

Active crossover; stereo or mono; crossover variable from 45 Hz to 450 Hz and 450 Hz to 4.5 kHz; 12 dB/Octave slope low pass; high pass derived from low pass filter output; 100K ohms input impedance; less than 0.01% THD at 3V; Class A circuitry; FET input stage

Price

\$650

TDK

TDK Electronics Corp.

755 Eastgate Blvd.
Garden City, N.Y. 11530

HD-01 Head Demagnetizer

Description

Self-contained, portable, battery-operated head demagnetizer in TDK precision shell; inserted like standard audio cassette; seconds after depressing the "play" button, a red LED will light, informing the user that his recorder heads have been demagnetized

Price

\$21.99

HC-05 Head Maintenance Kit

Description

For all types of recorders; includes brush, self-adhesive felt cleaning probes, applicator wand, cleaning fluid, and inspection mirror, all in a standard cassette box for easy storage and portability

Price

\$5.99

HC-01 Head Cleaner

Description

Removes dirt, dust, and excessive oxide buildup on recorder heads, capstans, and pinch rollers; inserted like standard audio cassette; recommended for use in conjunction with TDK HC-05 Head Maintenance Kit

Price

\$1.69

HD-11 Universal Head Demagnetizer

Description

Portable, battery-operated slim-line design; plastic-coated pivoting tips; green LED shuts off when demagnetization is completed

Price

\$34.99

TEAC

Teac Corp. of America

7733 Telegraph Road
Montebello, Calif. 90640

E-1 Universal Head Magnetizer

Price

\$25

RMK Recorder Maintenance Kit

Price

\$9

WATTS

Cecil E. Watts, Ltd.

Empire Scientific Corp.
(distributor)

1055 Stewart Ave.
Garden City, N.Y. 11530

X-Static

Description

Designed to generate uniform field of charged particles to neutralize static charges on records; no power needed

Price

\$29.95

HiFi Parostat

Description

Record-cleaning device designed to maintain new records in like-new condition; sold with stylus cleaner

Price

\$19.95

Parostat

Description

Record cleaning and static control device; moisture controls static charges while two plush pads lift and remove dust and debris from record grooves; does not leave wet residue behind

Price

\$18.95

Dust Bug

Description

"Tonearm"-like device; uses brush of specially shaped nylon bristles to dislodge dust and debris from the record surface, plus mohair pad to trap the dirt and control static charges

Price

\$8.95

Parostatic Preener

Description

Cylinder of plush nylon controls static, lifts dirt and debris from record grooves

Price

\$6.95

Humid Mop Kit

Description

Designed to keep record care equipment in top condition

Price

\$5.95

Wash Brush

Description

Special brush composed of nylon bristles specially honed to fit LP grooves; designed to dislodge dust and debris from record grooves when used with a mild detergent

Price

\$5.95

Anti-Static Fluid

Description

Special fluid designed to prevent static buildup on records without leaving a harmful residue

Price

\$2.95

Stylus Cleaner

Description

Special plush pad fitted to a convenient handle; designed to remove accumulation of dirt and debris from stylus tip

Price

\$2.95

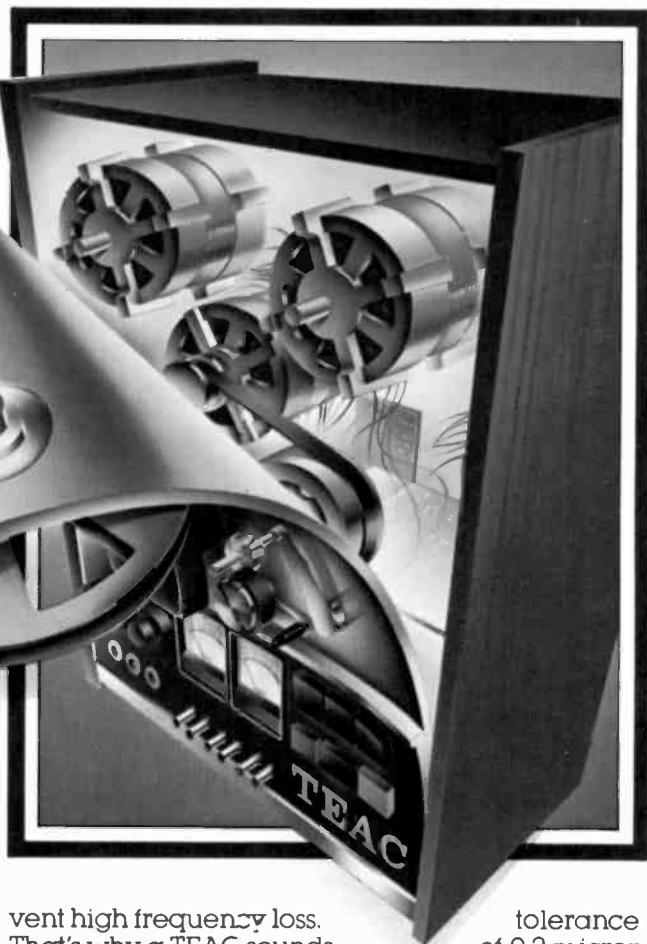
YOU CAN'T TAKE ANY MACHINE AT FACE VALUE.

Every tape recorder is a machine by definition. Pretty faces, knobs and buttons are incidental to the recorder's fundamental responsibility. To move tape. And that is where a TEAC shines.

Twenty-five years of specialization has taught us that balance is the critical factor in determining how accurately and for how long a tape recorder will move tape.

Balance means no part stands alone. It also means delicate physical relationships. Good drive motors produce tremendous energies, magnified in fast modes. The slightest imbalance will cause vibration and audible deterioration.

Our hysteresis torque motors, one on each reel, maintain the delicate balance between start-up, back torque and running torque to prevent tape stretch and breaking. Precise tape-to-head contact is maintained to pre-



vent high frequency loss. That's why a TEAC sounds better initially and maintains its sonic integrity after years of use.

The most important part of any drive system is the capstan assembly, where balance, again, is crucial. For accurate tape speed, the size and roundness of the capstan shaft are of utmost importance. So we use automated lathes to form each shaft. Then micro-grind each one to a

tolerance of 0.2 micron (0.000008 inch).

Our hysteresis synchronous capstan motor is specifically designed for speed accuracy. Deviations (wow & flutter) are kept to the absolute minimum. Our massive flywheel is dynamically-balanced and coupled to the drive mechanism with belts that are tested under the most severe temperature, humidity and

atmospheric conditions to assure dimensional stability for years to come.

For fast action and positive feel, we use highly responsive micro-switch transport controls. They activate solenoids almost twice as powerful as those in other machines. You can even hear the distinctive sound of a TEAC mechanism in action.

Our erase, record and playback heads are secured to a steel mounting plate — itself a product of over 20 years of design refinement — then aligned in the three critical planes.

Finally, we mount everything to a ¼-inch high density duralumin base plate. Physical relationships must remain constant. Especially in the tape world of micro-tolerances.

To us, it's a matter of craftsmanship. To you, a matter of decision. That's why we invite you to look beyond mere face value. Peel away the cosmetics and you'll find the real measure of any tape recorder. Especially ours.

For more information, see your TEAC Audio Specialist dealer or write us at Dept. HF-10.

TEAC.

Feedback Causes:



Feedback Cure:



DISCWASHER[®]

DiscFoot[™]

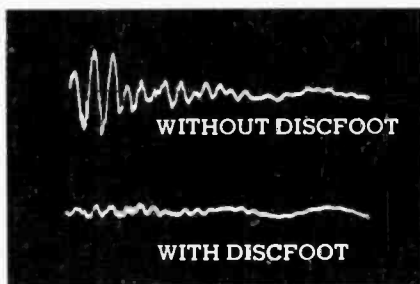
Hi-Technology Turntable Isolation System

- Works in combination with existing feet for dramatic reduction of feedback.
- Isolates better than original or "replacement" feet.

Home environments can "upset" a turntable by feeding back both speaker and footfall vibrations. Acoustic isolation of a turntable involves the complex variables of turntable weight, room/floor conditions and audio system placement. The Discwasher DiscFoot has been specifically designed to successfully isolate most turntables in the home environment.

The "Material" Solution

The major components of the Discwasher DiscFoot System are new, "totally engineered" chemical complexes that behave radically different than other plastic, rubber or spring systems. These proprietary compounds are durable and precise in behavior, although difficult and expensive to synthesize. Laboratory and real-world tests justify the use of these unusual materials in the DiscFoot System.



The Telling Test

The oscilloscope photo shows the output of two identical audio systems on the same shelf with their styli contacting the platters. The shelf is being struck by a rubber mallet. The top trace shows a turntable with absorptive "replacement" feet. The lower trace shows a DiscFoot System operating in conjunction with the existing turntable feet. Note the dramatic (tenfold) improvement in shock and feedback isolation.

The DiscFoot System contains four isolation feet, four platform caps, four furniture-protecting sheets and four special damping pads (to adapt DiscFoot units to certain turntables.) Additional single DiscFoot units are available for turntables weighing over 22 lbs. The system costs \$22.

 **DiscFoot[™]**

Discwasher DiscFoot can be found at audio dealers interested in preserving your music.

 **discwasher, inc.**
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CIRCLE 2 ON READER-SERVICE CARD