

# BE Radio®

August 2001  
A PR MEDIA Publication  
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The Radio Technology Leader



# PRODUCT SOURCE

*Innovation  
On a Solid Foundation*

# THE AUDITRONICS TRADITION

# C o n t i n u e s



**OUR BRAND NEW 2600 SERIES** is the PERFECT UPGRADE for those thousands of stations that have had AUDITRONICS consoles over the past thirty years. Designed for the TIGHTEST of BUDGETS, it is nonetheless the *highest performance* console Auditronics has ever offered!

A **MODULAR DESIGN**, the 2600 features twelve input channels, a monitor module with control room, studio, cue,

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This countertop design fits efficiently in only 25 by 26 inches of space, and like all our consoles is fabricated from steel to withstand the rigors of a broadcast environment.

tel 252-638-7000/fax 252-635-4857/sales@wheatstone.com  
600 Industrial Drive, New Bern, North Carolina, USA 28562

**AUDITRONICS**

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**HARRIS**

Welcome to the seventh annual *BE Radio Product Source*, the issue that covers the spectrum of products you rely on to get the job done.

The *Product Source* has proved to be a valuable resource over the years. Our 1999 issue won a regional and a national award from the American Society of Business Publication Editors. This year's issue includes 48 pages of innovative product offerings that provide the foundation for the success of the radio industry.

The *Product Source* complements our pre- and post-NAB coverage. Although many of the products on these pages were unveiled at NAB, almost as many are more recent product offerings. This issue will serve as an essential reference tool as you make your product-purchasing decisions throughout the year.

We welcome your feedback on this annual issue. Send your comments to 9800 Metcalf Ave., OP KS 66212-2216 or e-mail us at [beradio@primediabusiness.com](mailto:beradio@primediabusiness.com).

*Cindy Holst*

**Cindy Holst, associate editor**

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# PRODUCT SOURCE

*Innovation  
On a Solid Foundation*

## ADVERTISEMENT



As manufacturers of fully integrated multiple control room, digital audio consoles and platform systems, KLOTZ DIGITAL is the world leader in audio media platform technology.

Developers of the DiAN fiber optic network for audio and the VADIS audio/media platform, KLOTZ DIGITAL also offers the VADIS D.C. II, Spherion and Paradigm digital audio consoles. All of these products are broadcast quality for production and on-air radio broadcasting.

Radio broadcasters realize the VADIS platform is key to the technical side of a consolidated broadcast facility. Whether it's a large, technically advanced plant or just two or three control rooms, broadcast customers know that fitting their facility with a true platform, versus stand-alone mixing consoles and routers, is a requirement for success.

The **VADIS D.C. II** console comes equipped with standard cue speaker and studio/control room outputs. Offering IFB capabilities to individual or collective mix-minusses, this 8 mix-minus console features 4 stereo busses in digital or analog, clock and timer units and analog or digital input combinations. The D.C. II has the most comprehensive "logic follow" of any console in the industry. Logic follows each source no matter where it appears on the console and any source can appear on any fader of the D.C. II. One button Store and Recall of the entire console setup is designed to be switched on the air.



VADIS D.C. II

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The **SPHERION** digital audio console is available in two sizes: a 12-fader version with 24 input sources and a 20-fader console with 40 input sources. Sources include microphone, stereo, analog

line and various formats of digital line inputs. Expansion of sources is handled in increments of two stereo channels at a time. Sources connected to the console can appear on any fader. Machine control logic follows each source regardless of where it appears on the console. Formats of "source to fader" can be saved with routing assignments and recalled on a console-wide basis. The 20-fader Spherion model also includes DSP production features such as EQ, limiters, gates and compressors.

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Spherion

The KLOTZ DIGITAL **VADIS 880** platform provides a fully integrated, facility wide approach to audio and program-associated data routing, distribution, format conversion, sample rate conversion, DSP, digital audio sync distribution and machine control routing. Multiple control locations can share sources, area wide logic control, signal routing, talkback, intercom and more via KLOTZ's DiAN fiber optic network and Ethernet connections.

VADIS 880



**KLOTZ DIGITAL's VADIS D.C. II and SPHERION** digital audio consoles are for use in professional and multimedia markets. Both consoles utilize KLOTZ's VADIS platform technology and are well suited for facilities with multiple control rooms, as well as individual stations making the transition to digital. Multiple consoles can be integrated throughout a facility to share audio sources, logic facilities, intercom and other capabilities utilizing the KLOTZ DIGITAL DiAN fiber optic network option.

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## Our Secret is Behind the Scenes!



- Integrated platform concept
- Fiber optic networking
- Any audio source, anywhere

KLOTZ DIGITAL's unique VADIS Platform provides the perfect solution for facilities searching for the ultimate in digital audio integration. From single studio build-outs to new mega-facility operations, KLOTZ DIGITAL provides a cost effective and time saving option to traditional analog and digital facility installations. Our secret is behind the scenes. Fiber optic based, the VADIS Platform integrates all audio functions, combining operator tasks, reducing the need for

traditional wiring, and paving the way for effortless future expansion. And, the elimination of a central router means distribution of "any audio source anywhere at any time!" Compare the costs for yourself. When it comes to savings, quality and performance...nobody even comes close. That's why the most sophisticated and technologically advanced facilities throughout the world choose KLOTZ DIGITAL.

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## Compact power amps

### QSC Audio

**RMX series:** This series of amplifiers provides clean, dynamic power in a cost-effective package. An efficient and robust power supply provides ample power for high level transients. Ultra-low distortion (.05% THD) and a frequency response are key performance features. Surface-mount technology triples the small-signal component density to provide up to 2400 watts in 2RU. Independent defeatable clip limiters, selectable low-frequency filters, barrier strip, XLR and 1/4" balanced inputs, and Speakon and binding post outputs round out the feature list.

714-957-7100; fax 714-754-6174

www.qscaudio.com; info@qscaudio.com

Circle (274) on Free Info Card or go to www.beradio.com



## Digital audio network router

### Wheatstone

**Bridge 2001:** Features bi-directional fiber optic or CAT-5 interlocation connectivity, all digital domain AES switching, analog or digital inputs and analog and digital outputs, all in a seven inch rackmount

digital routing cage. Each cage is capable of handling 512 simultaneous audio channels on its backplane. The 2001 handles smaller applications, yet offers growth potential via stackable units to upgrade to larger system configurations. Cages can be separated by great distances with many studios connected to a central rack room, providing shared resources yet permitting independently functioning satellite studios. Mixed signal switching is accomplished with a choice of AES digital or analog 24-bit A/D input cards, or 24-bit D/A analog output cards, all of which can be serviced from the front of the cage.

252-638-7000; fax 252-637-1285

www.wheatstone.com; sales@wheatstone.com

Circle (302) on Free Info Card or go to www.beradio.com



## Digital on-air console

### Arrakis

**Colorado Digital Revolution series digital consoles:** Rack-mounted, digital broadcast console with digital and analog inputs. Occupies 3RU and is controlled by an external PC



running the Cool-Mix software or from a slide-fader control surface. Available with 12 or 18 channels with two inputs per channel, three PGM buses, two mix-minus buses, stereo monitor, headphone output and cue bus output. Includes machine control logic, remote channel on/off and five onboard mic pre-amps. The 12-channel version can be upgraded to the 18-channel version.

970-224-2248

fax 970-493-1076

www.arrakis-systems.com

sales@arrakis-systems.com

Circle (208) on Free Info Card or go to www.beradio.com



## Red steady-state light

### Dialight

**860 Series LED Obstruction Light:** At 12.5 watts, the red steady-state light uses nearly 90 percent less energy than a standard 116-watt incandescent bulb. The light also resists aircraft-induced vibration. Using Dialight's high-flux LED technology, the 860 Series exceeds the FAA's intensity specification for an L-810 light and can meet its -55°C temperature requirement. An optically designed glass lens enhances LED operation and provides 360° visibility at 70cd. The light is designed for 120-vac operation with transient protection and earthing features provided in a self-contained wiring compartment. The lamp assembly and housing are weather- and corrosion-resistant. An optional adapter is available.

732-919-3119; fax 732-751-5778; www.dialight.com; info@dialight.com

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remote broadcast and recording packages that are tested, then shipped to the clients' facility for installation. CSS concentrates on quality custom solutions to meet or exceed clients' needs. Being certified installers of major consoles and audio manufacturers as well as dealers for professional audio equipment, CSS is able to offer a one-stop-shop for those seeking high quality studio options.

303-425-5004; fax 303-425-5005

www.creativestudiosolutions.com; info@creativestudiosolutions.com

Circle (225) on Free Info Card or go to www.beradio.com

## Digital phosphor oscilloscopes

### Tektronix Inc

**TDS3000B series:** Based on the design of the TDS3000, the six new models in the TDS3000B series provide more power and portability for testing dynamic, complex signals in various environments. The TDS3000B series offers a host of new features designed for electronic design, production and maintenance, including the WaveAlert Waveform Anomaly Detection, which automatically detects anomalous waveforms. As a standard feature on every model in the TDS3000B series, Wave-Alert makes it easy to detect and take action against



events that fall outside the normal repetitive patterns of waveform activity. The unit can be set to respond to anomalies in a variety of ways. Also added is the e\*Scope web-based remote control capability, which enables remote instrument control via an Internet browser.

800-835-9433; fax 503-222-1542

www.tektronix.com

Eric.Hodges@Tektronix.com

Circle (293) on Free Info Card or go to www.beradio.com

## CD-ROM

### Andrew



**Broadcast CD-ROM:** Containing complete product information on the company's broadcast product range, the CD-ROM is an instant source of reference for broadcasters, broadcast engineers and consultants. The Broadcast CD-ROM features broadcast antennas, transmission lines, pressurization products, RF systems and components, plus broadcast system planning tools and calculators. Each product area includes a document center; a full sales contact list; a reference data section; the Andrew update service; and video clips giving a brief introduction and overview to the specific product area.

800-DIAL-4-RF; fax 708-349-5444

www.andrew.com

rose.wolski@andrew.com

Circle (203) on Free Info Card or go to www.beradio.com

## Production package

### Digigram

**PCXpocket 440 and Xtrack 4.1:** A portable and powerful digital audio workstation is created when the PCX-pocket 440 is coupled with the latest version of Xtrack that has been upgraded to allow users to import, export and edit MP3 files, export AIFF and WMF, as well as add support for audio CD track grabbing. Xtrack 4.1



is able to merge a set of tracks, consisting of any combination of PCM, Layer I, and Layer II, to generate a single MP3 file. Format, sampling frequency and bit rate conversions are done by the export process. The software also allows users to convert their MP3 files into a single PCM, MPEG Layer I or MPEG Layer II file. A wide range of compression is offered, from 8kb/s at 22.05kHz to 320kb/s at 48kHz.

703-875-9100; fax 703-875-9161

www.digigram.com

input@digigram.com

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# Matrix—

QUITE POSSIBLY THE LAST CODEC YOU'LL EVER BUY.

## THE CODEC FOR THE FUTURE

Your remote equipment toolbox may already include ISDN and POTS codecs plus a slew of other stuff. Now they are talking about high speed GSM digital wireless — and coming soon...3G.

The Matrix's modular approach is designed with this future in mind. The core of the Matrix's flexibility revolves around full access to its powerful coding engine through easily inserted modules and upgradeable flash memory. Whatever may be coming down the communications pipeline, the Matrix is ready.

## THE CODEC FOR TODAY

### WIRELESS

- 5 kHz real-time, full duplex audio on GSM wireless phones
- Up to 10 kHz real-time, full duplex audio on HSCSD GSM
- 15 kHz real-time, full duplex audio on portable Inmarsat terminals (with optional ISDN module)
- 15 kHz nonreal-time, "Store and-Forward" feature may be used on many mobile circuits
- Optional battery kit delivers power for up to 7 hours



### ISDN\*

- Layer III for 15 kHz at 64 kb/s
- G.722 for wide compatibility with other codecs
- Turbo-G.722 for 15 kHz with only 6 mS of delay
- Layer III transmit with G.722 return to reduce delay
- 1200 baud ancillary data available
- Fully international terminal adapter works worldwide

\* ISDN module required



### POTS

- 15 kHz full-duplex audio on a standard telephone line
- Available in portable or rackmount versions
- Modular design enables use on future circuits
- Will work at data rates as low as 9600 baud
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Email: info@comrex.com [www.comrex.com](http://www.comrex.com)

**COMREX**

## Transmission lines

### Andrew

**MACXLine:** Two new versions, 4 1/16-inch and 6 1/8-inch, 50 ohm, have been added to the MACXLine family of rigid coaxial transmission lines.

MACXLine coaxial transmission lines are thermally compensated for dependable operation and feature patented technology that can more than double the life of a transmission line system. All MACXLine rigid transmission lines are made from high conductivity copper tubing to ensure low attenuation. A bellows section is incorporated in the inner conductors. The bellows compensate for differential expansion between the inner and outer conductors, eliminating mechanical wear on sliding contacts. Inner connectors are captivated and use tensioned springfingers for maximum contact force, minimizing contact resistance and preventing line overheating.

800-DIAL-4-RF; fax 708-349-5444

www.andrew.com; rose.wolski@andrew.com

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## Audio routing system

### Symetrix

#### AirTools Audio Routing System:

The various components in the AirTools Audio Routing System (ARS) can be combined to create a 64x64 router or smaller variations. Designed for flexibility and versatility in both analog and digital broadcasting applications, the Audio Routing System has the capability of linking multiple studios using standard CAT5 cable while retaining 108dB dynamic range and low distortion. A unique feature of the ARS is on-board DSP for dynamics processing (AGC, EQ and Compression), gain and routing functions. All of these functions are configurable by a Windows-based PC running AirTools ARS Designer Software via an RS-232 port that is standard on each ARS component. The system is comprised of the Homer 2x4 Studio Break Out (7000), the Iliad 8x16 HomerLink Router (7100), the Odyssey 16x32 HomerLink Router (7200), the Icarus 8x Analog Router (8000), the Ulysses 8x Analog Output Router (8100), the Narcissus 8x Digital Input Router (8200), and the Oedipus 8x Digital Output Router (8300).

425-787-3222; fax 425-787-3211  
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Website: www.crlsystems.com

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## Outdoor signs

### Antenna ID Products

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610-458-8418; fax 610-458-8418

www.antennaid.com

antennaid@aol.com

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## POTS/ISDN/PCS Codec

### Comrex

**Matrix:** As a plain telephone codec, the Matrix delivers 15kHz full duplex audio on one standard telephone line. An optional slide-in module allows the Matrix to operate on ISDN using Layer III or G.722. The Matrix is also capable of improving the quality of GSM wireless phone feeds. The data port on the Matrix enables direct connection of a GSM phone without the need for a module. Another option is a NiMH battery that can power the unit for up to 7 hours. Completing the Matrix package are two mic inputs (one



is switchable to line level), one headphone output and one line level output for connection to microphones and headphones or a mixer. An additional -10 dBu input is available for a minidisc or DAT player.

800-237-1776; fax 978-635-0401

www.comrex.com; info@comrex.com

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www.beradio.com



## ADVERTISEMENT

### APT Unveils the WorldNet Rio an Audio Codec for the 21<sup>st</sup> Century

APT used the NAB platform to launch the WorldNet Rio, a full duplex multi-channel, multi-algorithm audiocodec designed to meet the requirement for a universal codec with the capacity to interface with all previous APT products.

Aimed primarily at the broadcast and post production markets, this 1U box is not only smaller than existing products but also offers enhanced audio quality, reduced delay, and full backward compatibility with the NXL 384A, the NXL 384D and the DSM 100 X21, which it is designed to replace. The unit features one primary data port and a secondary data port (X.21/V.35) ensuring that in the event of main line failing it will automatically switch to back up.

The WorldNet Rio is the first commercial product to incorporate APT's enhanced version of apt-X™, offering 20 and 24-bit operation as an extension to

the performance of the company's original 16-bit algorithm. This improved algorithm is the result of intensive in-house research and development that has incorporated the latest advances in DSP technology. A single Motorola DSP563xx device provides increased stereo and mono audio channel capability and simultaneous full duplex operation, guaranteeing that the algorithm will meet the demands of current and future PCM standards. Companies involved in audio track mastering applications will particularly welcome these improvements thanks to a reduction in coding delay and increased dynamic range.

With the ability to deliver high quality

audio found in inter studio networking, remote/outside broadcasts and STL/TSL applications, the WorldNet Rio is suitable for use in AM, FM, DAB and other broadcast environments. The available



audio bandwidths, while dependent on the network bit rate and the resolution of the desired audio, will range from 3.5kHz mono through to 22.5kHz stereo. When the unit is interfaced with an X21 formatted digital telecom network the input/output data rates range from 64kbit/s through to 576kbit/s.

The WorldNet Rio is fully software driven, controlled and monitored through the front panel keyboard and LCD display. A headphone socket mounted on the front panel provides for additional monitoring of the audio input and output. The rear panel I/Os can be switched to accept either analogue or digital signals and, if required, the digital output can be synchronised/locked to an external digital reference signal. Additional interfaces allow for the connection of Auxiliary and Timecode data plus Alarms and Opto-coupled control.

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### Audio Processing Technology Launches WorldNet Milano

Belfast-based Audio Processing Technology (APT) has launched a brand new digital audio codec, the WorldNet Milano, which is intended to replace the hugely popular DSM 100 Pro Link and the BCF 256 and 384.

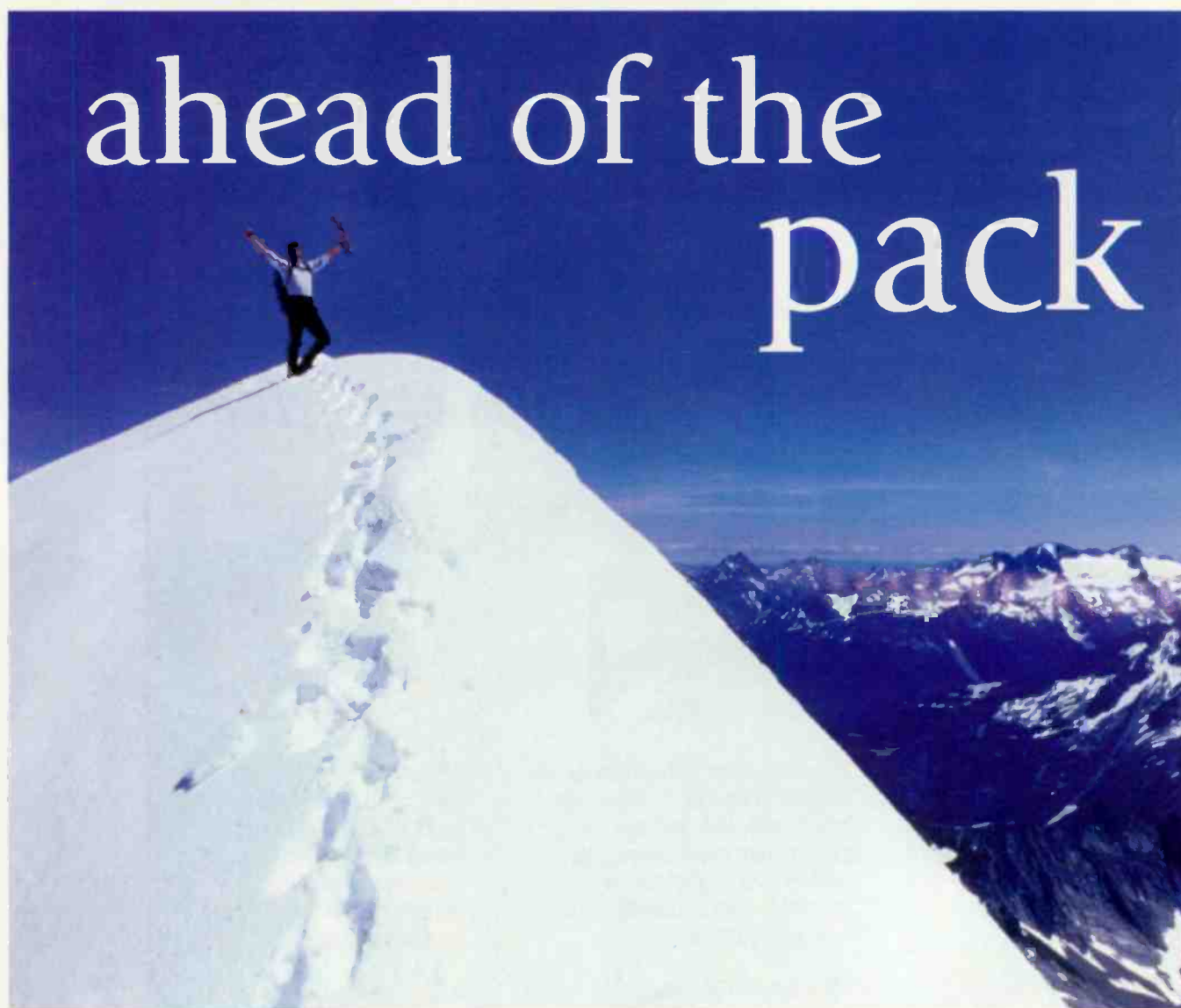


This new product is the latest addition to APT's WorldNet series—a range of digital audio codecs that includes the WorldNet Rio, on show for the first time in the U.S. at NAB.

The Milano features standard and enhanced apt-X™, the company's recently upgraded data compression algorithm, which provides enhanced audio quality and reduced delay time. APT is aiming the Milano at both the broadcast and post-production markets as it can be supplied with or without SMPTE timecode. It also features four ISDN interfaces—S or U—making it suitable for both US standards and other standards used around the world.

APT's managing director Noel McKenna says: "The Milano is not only an improvement on our previous products but it is also highly competitive in terms of price. This will enable us to open up our target market to encompass those customers who have always wanted APT quality but were previously deterred by the cost."

The Milano will begin shipping in the summer and is expected to consolidate APT's position in both domestic and export markets.



Scott Studios | Cartworks | Harris Intraplex | DTS  
Computer Concepts | Glensound | Leitch | Moseley

apt-X™ is now available to license.

The apt-X™ algorithm is the first choice for many of the world's leading professional audio manufacturers. Its world-beating performance allows compression of a factor of 4:1 with no audible degradation, a coding delay of fewer than 4 milliseconds and a high resilience to multiple coding.

But don't take our word for it. Opposite are just some of the industry's leading names currently using this cutting edge technology.

Find out why apt-X™ is the leaders' choice; contact us today.

**APT**  
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TECHNOLOGY

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[www.aptx.com](http://www.aptx.com)

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## Mic interface for computer audio

### Sound Devices

**USBPre 1.5:** A complete, portable audio interface for hard disk recording. Designed for USB-equipped Windows and Mac OS computers, USBPre 1.5 adds S/PDIF input and output to Sound Devices' USBPre Digital Audio Interface. USBPre 1.5 includes all



the connections required for 24-bit audio acquisition with notebook or desktop computers. Features include: two active-balanced microphone preamplifiers with 48V phantom power, 24-bit A/D converters, instrument DI, line-level inputs, front panel level metering, with headphone monitoring of both analog source and computer audio. USBPre is completely bus powered, eliminating batteries or external power supplies.

608-524-0625; fax 608-524-0655

[www.sounddevices.com](http://www.sounddevices.com); [info@sounddevices.com](mailto:info@sounddevices.com)

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## Console Wheatstone

**A-2000:** This console is ideal for multi-studio buildouts and compact enough to fit almost any studio countertop. The modular A-2000 incorporates many features, including two stereo program buses and two mono buses (one pre- and one post-fader) for backfeeds or on-the-fly mix-minus, and dual phone caller support using Wheatstone's Bus-Minus circuitry, which generates mix-minus caller feeds with the push of the module's bus assignment switch. The A-2000's mainframe can accommodate up to 23 input or accessory modules in any combination. Both control room and studio monitoring with talkback are provided, including pre- and post-studio and headphone level control monitor feeds. A second monitor module is available for studio two/headphone two output feeds. Connections are made via standard insulation displacement mating connectors and tooling. In addition, the A-2000 features a hinged meterbridge that conceals I/O connectors and gives direct access to logic programming dipswitches and calibration trims.

252-638-7000; fax 252-637-1285

[www.wheatstone.com](http://www.wheatstone.com); [sales@wheatstone.com](mailto:sales@wheatstone.com)

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Crown FM Series transmitters daily extend the standard for reliable excellence in broadcasting. Around the world Crown remains the choice for trouble-free service in demanding circumstances and difficult environments. From FM 30 to FM 2000, each Crown model comes with a rich tradition of long-term value. The newest

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## Speakers

### CAP Audio Professional

**ADM line:** A 3-way active studio monitor, the ADM1 features a 24-bit digital controller, FIRTEC internal 32-bit floating point, analog and digital input and AES3/EBU. The unit is remote controlled and includes a 200W amp. The ADM2 is a 2-way active studio monitor offering many of the same features as the ADM 1. The ADM2 features modern digital technology, optimized sound and emission performance and a compact design. The ADM3 is a 2-way active studio monitor featuring 24-bit digital analog and digital input and AES3/EBU. This unit is also remote controlled. The ADM3 is equipped with an integrated amplifier. In conjunction with the ADM\_W, the three-way combination ADM2/ADM\_W forms a precisely adjusted, large studio monitor system, which can reproduce even the largest volume levels over the entire transmission range from 25Hz to 20kHz.

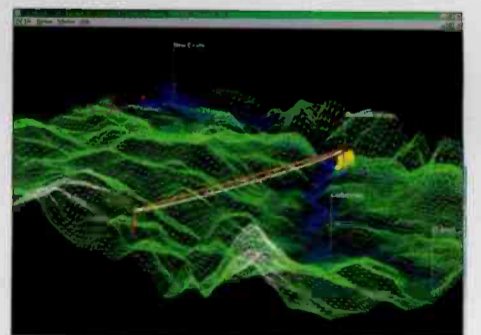
727-447-9656; fax 727-447-9715

[www.cap-audio.com](http://www.cap-audio.com); [info@cap.de](mailto:info@cap.de)

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## Coverage and signal path software

### V-Soft



**Terrain3D:** Plots Longley-Rice coverage and radio paths over 3D terrain. Uses Open-GL technology to model signals and radio paths over 3D wire mesh or solid 3D representation of terrain. Users can use mouse to rotate or tilt 3D view; uses 03 sec USGS terrain elevation database.

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[www.v-soft.com](http://www.v-soft.com)

[kmichler@v-soft.com](mailto:kmichler@v-soft.com)

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**1.**

Demand  
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16-bit linear  
audio in your all-  
digital air chain.  
Compression  
means compro-  
mise and we just  
won't hear of it.

**2.**

Select a digital  
STL that can be  
configured with  
**UP TO TWO PAIRS**  
of linear stereo  
audio. It's like  
getting two  
radios for the  
price of one.

**3.**

Exercise your  
**FREEDOM OF**  
**CHOICE.** Choose  
32, 44.1 or 48kHz  
audio sampling.  
It's your broad-  
cast—select the  
rate that works  
best for you.

**4.**

Choose a digital  
STL that **CAN**  
**ADAPT TO ANY RF**  
**ENVIRONMENT**  
with user-defined  
16, 32 or 64 QAM  
rates. (Flexibility  
is always a good  
thing.)

**5.**

Purchase a  
950 MHz RF STL.  
The channel  
allocation is free,  
and the money  
you save over a  
T1 STL goes  
straight to your  
bottom line.

*Moseley's Starlink SL9003Q is the only 4-channel digital studio transmitter link on the market with all these features. Not just an STL, a sound investment.*

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## Moseley

111 Castilian Drive • Santa Barbara, CA 93117-3093

## FM digital processor Orban

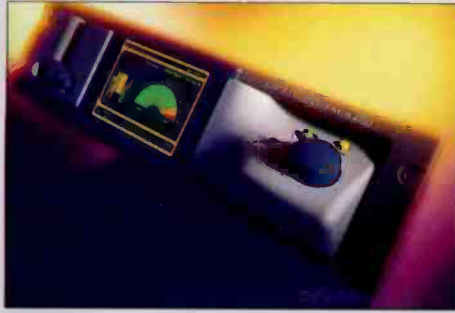
### Optimod-FM 8400:

Has more than five times the DSP power of the 8200 as well as new features. Its intelligent peak limiting system and look-ahead compression offer a clean, loud sound without distortion, trashed baseband or pilot tone modulation. Selectable soft, medium and hard bass clipping are available. The limiting system eliminates the need to compromise between voice distortion and music loudness, allowing even loud, highly processed presets to offer pristine live speech. A composite processor allows the stereo composite signal to be limited while preserving stereo separation and protecting the stereo pilot tone and RDS/RBDS subcarriers. Software version 1.0 is now available.

510-351-3500; fax 510-351-0500

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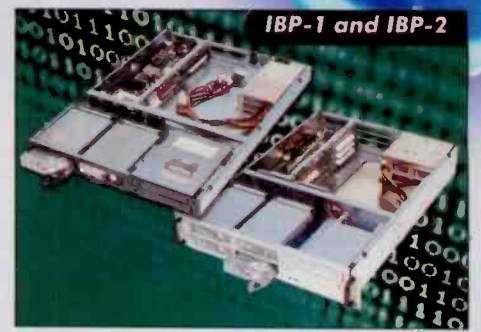
## Computer platforms I-Bus/Phoenix

**IBP-1 and IBP-2:** These computer platforms are suited to high-density computing applications and designed for 24/7 operation. The enclosures have been designed to accommodate and cool a wide range of components. Delivered as application ready platforms for quick time to market, low cost of ownership and with long-term continuity of supply, IBP-1 and IBP-2 complement the I-Bus/Phoenix computer platforms range for OEMs. IBP-1 offers ISA or PCI expansion in a flexible 1U rack mount or desktop enclosure system with dual hot-swap IDE or SCSI disks and exceptional cooling. IBP-2 offers flexible ISA/PCI expansion, four hot-swap hard disks, CD-ROM and Floppy Drive support and optional dual-feed, dual-redundant, hot-swap PSU. IBP-2 fits into rack mount or desktop applications and also offers internal cooling.

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**Scott Rouse** - Producer, Grammy Nominee, Nashville, Tennessee

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**Pete Leoni** - Producer Engineer, Tech writer and reviewer



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## Voice editing system Audion Laboratories



**VoxPro PC:** This PC version has the same look, feel and functionality of the Mac VoxPro but includes many new features. Some of these are: a large re-sizable sound window that displays 7 to 15 seconds of a recording, the ability to import and export WAV, AIFF, MP3 and other file formats, unlimited undo, unlimited hot keys and the ability to run on any Pentium II or higher, Windows 98, ME and 2000. Mac versions released in Q3 2000 run on the G3 and G4 platforms.

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www.audionlabs.com

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## Web site enhancements Cartworks/dbm Systems

**Web Update:** Now CartWorks' Music-on-Hard-Drive systems can generate live content for a website automatically. Whether streaming audio is a part of the site or not, Web Update can help attract visitors and keep them longer. Web Update allows a website to display song titles and artist names in context with what is playing on the air. Links may be added for various sources of artist bios, so the site becomes more interactive for the visitor. Photos and graphics may also be displayed in context. Show a client's logo while his spot is playing. CartWorks Web Update will keep any station website fresh and alive, even while automated.

800-795-7234; fax 601-853-9976

www.cartworks.com

sales@cartworks.com

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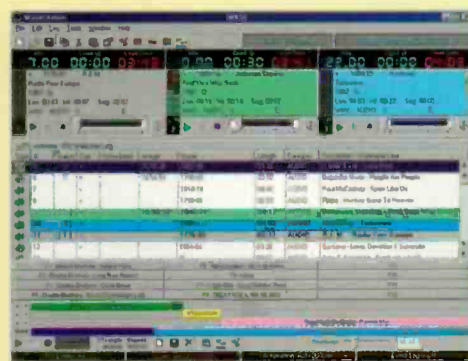
MP3 Audio Card - \$1999



AudioScience's ASI4346 audio card features MP3 playback with on-board decompression. With it, MP3 audio files play quickly and smoothly. The card has four physical stereo outputs and one stereo input. It also includes a GPIO and an RS422 bitstream input, which supports direct input of a satellite receiver MPEG bitstream.

Exclusively at BSI

Digital Automation - \$1499



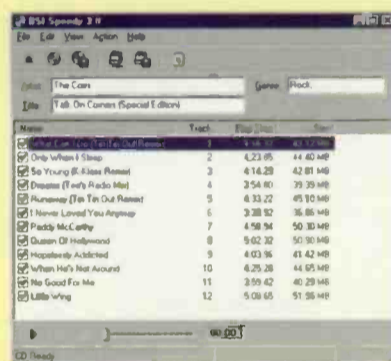
Our WaveStation 3.0 digital automation software comes complete with triple-overlap playback, VoiceTracking, remote access and control, dynamic HTML/XML generation for web site display, time & temp announce, satellite interface and log import/export. More than 2500 users worldwide.

Portable Production - \$2599



The BSI FieldStation lets you take professional audio production, playback and editing capabilities virtually anywhere. The robust Dell laptop platform and versatile BSI software combine to form an amazing portable audio workstation.

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Our Speedy 3.0 professional CD ripping software gives you up to 20X ripping speeds into the format of your choice. RapidRip, automatic naming, autotrim, and normalization make building your library faster & simpler than ever. Free automatic labeling via the CDDb Internet service.

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Pictured - BSI Series 210

Our turnkey systems come equipped with all hardware, software, hubs and cabling you need to go on-the-air. Unlike some other companies, we do include the PC's... custom built or from Dell, your choice. We can even provide music from our 30,000 song library. Specialty recording and Sat-Net systems are also available.

MP3 Audio Card - \$1499



The ASI4344 gives you professional audio playback of MP3 files. This 4 stereo output/1 stereo input audio device has on-board decompression for MP3. That makes audio playback fast and efficient. Now you can play multiple simultaneous MP3 audio files as clearly as linear audio files- and they take up a fraction of the hard drive space.

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## Isocoupler Kintronic Labs

**FMC-S.4G-SS:** Isocouplers allow transmission lines associated with high-frequency antennas to be routed across the base insulator of a series fed, base insulated tower. Isocouplers make it possible to lease valuable AM tower space to potential paging, cellular or two-way customers. The FMC-S.4G-SS is an isocoupler designed for 2.4GHz spread spectrum applications.

423-878-3141; fax 423-878-4224  
www.kintronic.com; ktl@kintronic.com  
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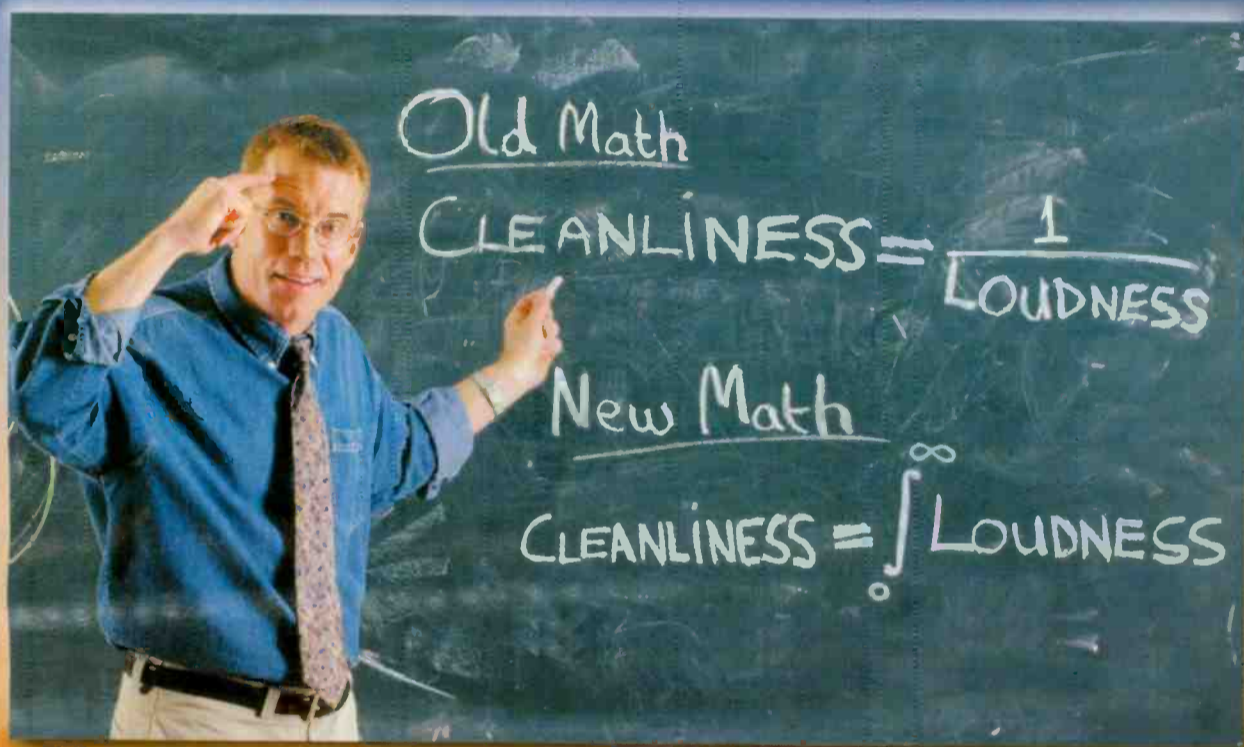
## Mixing control surface Telos Systems

**Smart Surface:** A control system designed to exploit the capabilities of mixing/routing engines and computer-based audio applications. Bearing a slight resemblance to traditional on-air consoles, SmartSurface provides many familiar controls to operators, while providing new functions. By integrating management of most devices used in the radio studio during on-air or production activities, near-complete control is provided for mixing, routing, playback, recording, editing, phone control, remote (codec) operation and more.

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New processing algorithms and circuit designs, in addition to the fifteen proprietary circuits\* from the original, allow even greater loudness without sacrificing a clean, natural sound. The MkII's increased flexibility also gives a station the ability to create its own unique sonic signature. New features include a split band optical high frequency limiter, a low distortion overshoot compensated low pass filter\* (with no spurs), improved remote control interface, RDS, and dual composite outputs.

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## Lightning prevention systems Cortana

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## Digital audio console Klotz Digital



**Paradigm 16:** Includes voice processing on all mic inputs; SRC's on all digital line inputs, machine control on all line inputs; mode, pan and phase reverse on all inputs; 12 faders with A/B switching and four faders with analog/digital six-source selectors. The LCD flat panel screens display a large time of day clock and an event timer. The screens double as a password-protected, intuitive, central control for console set up. The Paradigm 16 accepts 48 sources and has both digital and analog outputs. The console layout can be configured, saved and retrieved for each operator. The Paradigm 16 has familiar in-hand controls and a transparent mix-minus operation. Buses are PGM, AUX, TEL1, TEL2, and PFL (cue) with cue speaker, headphones and CR and studio monitor outputs. Talkback to TEL1, TEL2 and Studio is standard.

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**Cabinetry and prewiring services:** Specializing in the fabrication of radio and television studios for more than 30 years, RAM has designed and pre-wired systems for all of the major networks, group owners and news organizations. Clients include Paul Harvey News, ABC, CBS, Fox, NBC and WGN (pictured). Studio furniture is manufactured in both solid and laminated tops with multi-trim options. RAM also manufactures products such as switchers, monitoring and metering systems, and is an authorized dealer for more than 200 broadcast equipment manufacturers.



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## ISDN transceiver

### Telos Systems

**Zephyr Xstream:** The newest member of the Zephyr family of ISDN codecs, Zephyr Xstream introduces MPEG4 AAC-LD coding, the newest compression algorithm from MP3 inventor Fraunhofer Labs, for Layer-3 audio quality with low transmission times. Zephyr Xstream is fully backward-compatible with the original Zephyr. Zephyr Xstream is a rackmount-style transceiver specially designed for use with a single ISDN line or other low-bitrate transmission paths. Two-channel flexibility over a single ISDN circuit or two synchronous links can be used to transmit and receive 20kHz stereo audio to and from a single location, or two mono channels to and from separate locations.



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Other power configurations contact OMB America

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MP-3	\$980	0.8Kw
MP-4	\$1,280	0.8Kw
MP2-4	\$1,820	2Kw
MP3-5	\$2,270	3Kw
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## Computer keyboards

### CyberResearch

**OIX 2000:** All keys (except for the extra Enter key) found on an AT enhanced IBM compatible keyboard are on the OIX 2000 desktop keyboards. The OIX 2010D desk model is weighted to hold its position while it is in use. The OIX 2011G is the same as the OIX 2010D, but the cursor control key cluster is replaced with a Glidepoint trackpad. The OIX 2015D, an industrial version of this series, is made for harsher environments. The OIX 2019 is a protective keyboard skin for the OIX 2010 and OIX 2015 models. The OIX 2020 is an industrial-duty flat tray model. This unit shares the same key layout as the desktop version, but it is not weighted. The OIX 2030 is the same industrial strength model as the OIX 2020, modified for panel-mounting. The OIX 2019-T is a protective keyboard skin for the OIX 2020 and OIX 2030 models.

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## Microphone

### Audix USA

**OM1:** Released in 1985, the OM1 is the original flagship of the OM series. Machined from solid brass with a 2-stage design, the OM1 provides a frequency response of 50Hz to 18kHz and has exceptionally low handling noise. This classic hypercardioid provides 30dB of off-axis rejection with the ability to handle sound pressure levels in excess of 140dB. Featuring the Audix hallmark E-coat finish and durable scratch resistant spring steel grill, the OM1 includes cordura carry pouch and mic clip.



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# Scott Studios' Digital Audio System Is My Friend

by Jon Rivers  
Morning Show Host  
KLTY (FM)

## USER REPORT

**DALLAS** I have no idea why everyone isn't using the Scott Audio System by **Scott Studios**. The Scott system is the easiest studio system in the world. In fact, it's the radio personality's best friend.

Scott's touch screen frees air talent to be creative and concerned about content. The simple screen layout means announcers don't worry about mechanics, and they can focus on what they want to do on the air.

The Scott touch screen is fast and intuitive, I can do whatever I want even if a bit changes. Audio plays instantly from the play buttons. Even if I have to go deep into the cart walls, I can play any of our sound effects and jingles within one or two seconds.

### Avoid nightmares

As host of a busy morning show for decades, I can tell you that some other digital systems are absolute nightmares for major-market air talent.

Most other systems are obviously not designed by disc jockeys or with the disc jockey in mind. The systems are not laid out for those of us who need effective tools for our fast-paced work environment.

Digital systems should enhance our shows, and many other systems do just the opposite. After using some systems, I wonder if their designers asked, "How hard can we make it?"

But with the Scott system, everything is right where it should be. Buttons that need to be big are big. Those that should be out of the way are out of the way. The Scott system takes air talent out of bondage and into the light of day.



Ease-of-use and intuitive control for all announcers are high points of the Scott system.

We run our program log through separate faders. Then Hot Keys run through other faders. My producer has his own touch screen that parallels mine, and the news room has another touch screen to build news actualities, traffic, sports, sounders and spots.

KLTY does remotes—from my house in a freak snowstorm to a recent remote from the Gospel Music Association show in Nashville.

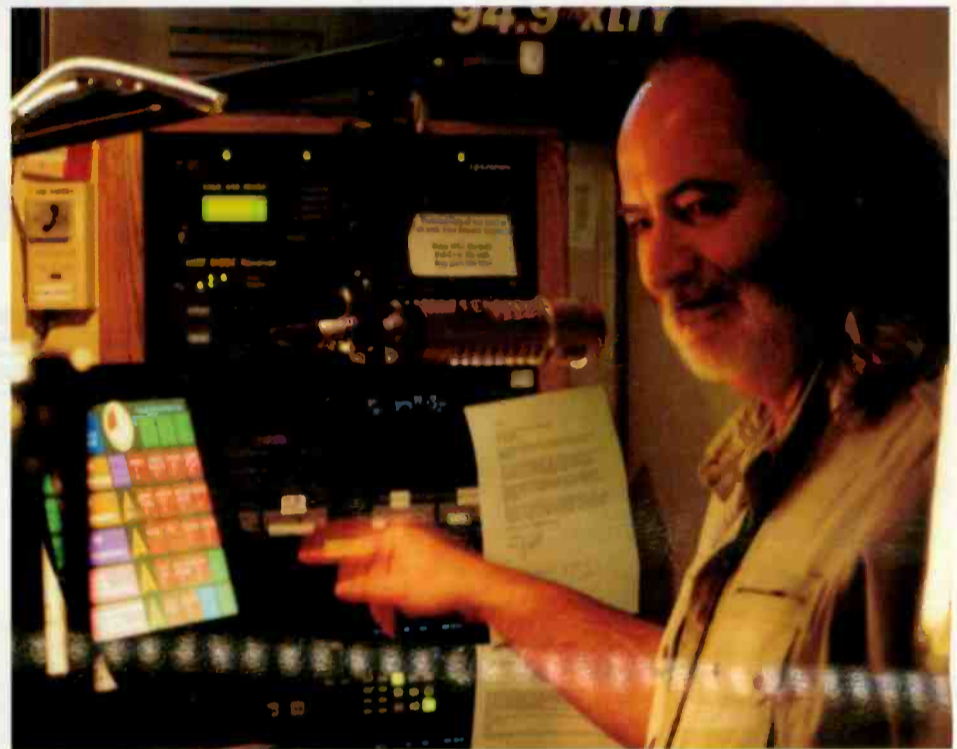
All we need to control our Scott system is a laptop, touch screen and an Internet connection. It's as fast at the remote location as it is in the studio.

### Two seconds

When we interviewed recording artists, they mentioned a song, and we played it in 2 seconds from the remote. Jocks from other cities are amazed what we do on remote with our Scott system.

We went through an ownership change and built new studios with another digital system. It had flat-panel touch screens, rack-mount cases, hard drives in the file server and workstations, digital ins and outs, but it was an announcer's nightmare.

We had used a Scott system for 6 years and the whole staff—including our manager—lobbied to get one again. Scott hard drives are much faster and don't choke when we have lots of events happening!



*Jon Rivers, morning air personality at KLTY, Dallas and host of nationally syndicated programs "20: The Countdown Magazine" and "Powerline."*

The power supplies are redundant and right up front of the rack case, as are the air filters. The hardware is far superior to that of the other digital system.

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The Scott system is ideal for the bustling atmosphere at KLTY—the easy-to-use interface, its outstanding remote capabilities, fail-proof hardware and excellent production capacity make it my best friend in the studio.

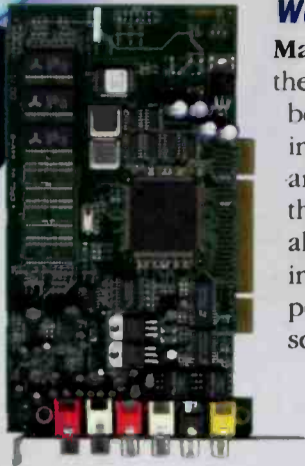
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Corp.

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Dallas, Texas 75234 USA  
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865-546-6115; fax 865-546-8445

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## Master clock systems Broadcast Tools



**Time Sync and Time Sync II:** Featuring a SIG led and relay, furnished as fail-safe for either loss of satellite or power and invalid time, the Time Sync provides three separate GPS time referenced outputs. The first SPDT relay pulses once every 15 minutes. These times are programmed for 13:00, 28:00, 43:00 and 58:00 after each hour. The second SPDT relay pulses at the top of the hour. The final output is an open collector with a 100ms pulse every second. The Time Sync II provides four separate GPS time referenced outputs. The first three are identical to the Time Sync; the fourth output is an 4800-baud, RS-232 serial port providing

UTC time in HH:MM:SS format. Both units are supplied with a Garmin 12-channel GPS receiver with embedded antenna. The receivers are supplied with a 15-foot cable; longer cable lengths up to 100 feet may be used. Time Sync II is equipped with an optional RS-485 receiver input, allowing up to 1,000-foot separation from the receiver.

877-250-5575; fax 360-854-9479

[www.broadcasttools.com](http://www.broadcasttools.com)

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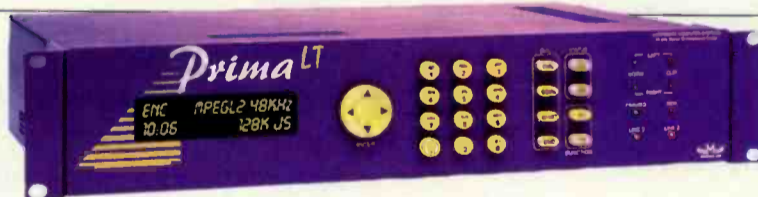
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## Condenser mic AKG



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## Studio mixer Swissonic America



to be used in a typical small setup, such as two phantom-powered microphones, two hi-Z instruments, four stereo line inputs, tape input (with switchable phono preamp), S/PDIF input and output (optical and coaxial), tape output, monitor output and headphone output. Input and output volume can be adjusted individually. The built in USB interface connects the USB Studio with a computer for a complete DAW system. Each input source can be enabled for recording, and there is no need for a sound card.

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## Studio ribbon microphone Audio Engineering Associates

**R44C:** An accurate reproduction of the original RCA ribbon mic that uses the same ribbon material. The R44C is a single diaphragm figure eight ribbon microphone. Mic pickup is 90dB down broadband at 90° from the front. Features include a custom AEA transformer; high SPL capability, max level is 140dB above 200Hz; low self-noise and consistent polar response. The unit is operable in high humidity environments and sounds equal to or better than the original RCA 44. A custom storage/shipping case, stand adapter, and manual and attached two-meter microphone cable are included.

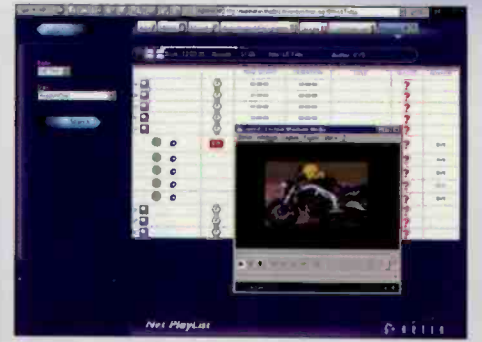
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## Intranet sound consultation utility Netia Digital Audio



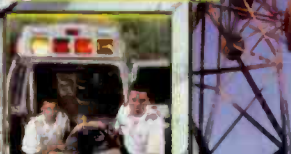
**Insider:** This version includes new functions to enhance the program's ergonomics. Insider is a program for playing items in a database. Insider can now be used for consulting television video files. Insider provides easy access to audio and video files. Insider uses streaming technology for instant smooth playback and viewing. The on-screen commands are those of an ordinary tape recorder or VCR. The workstation needs no more than a standard sound or video card to relay the latest report on the schedule, with no loss of quality. The same file can be accessed simultaneously by several users, even when it is being recorded. The Insider processes radio and TV playlists in real time. On-air playlists can now be viewed directly via Insider. Insider has a user access rights management function.

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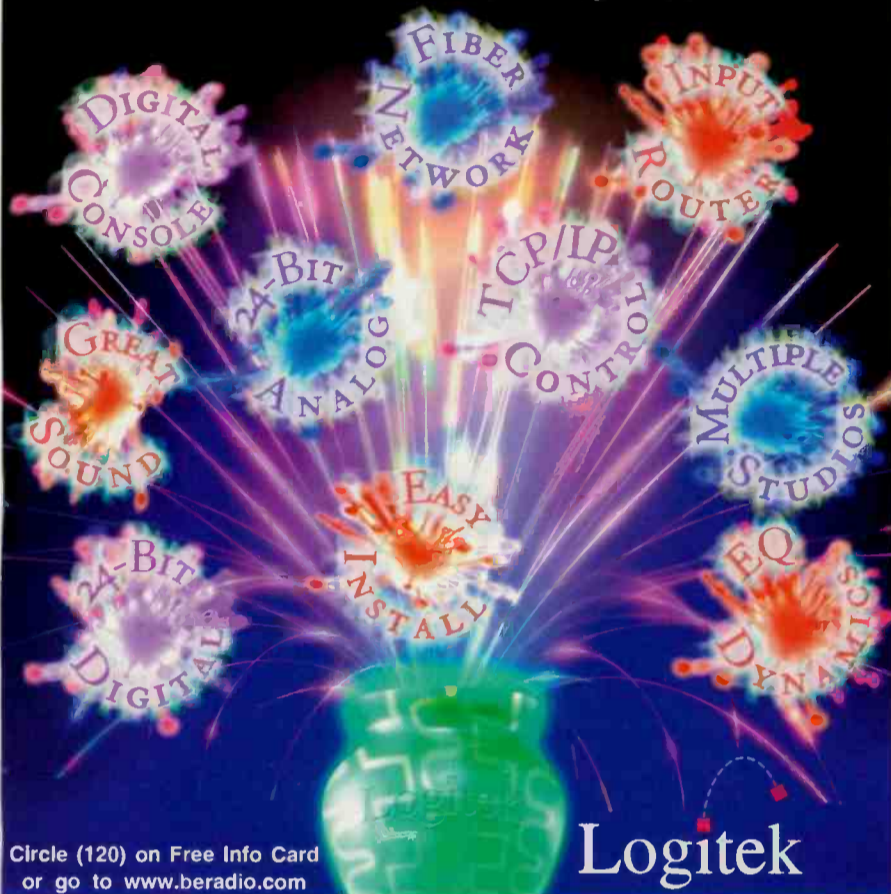
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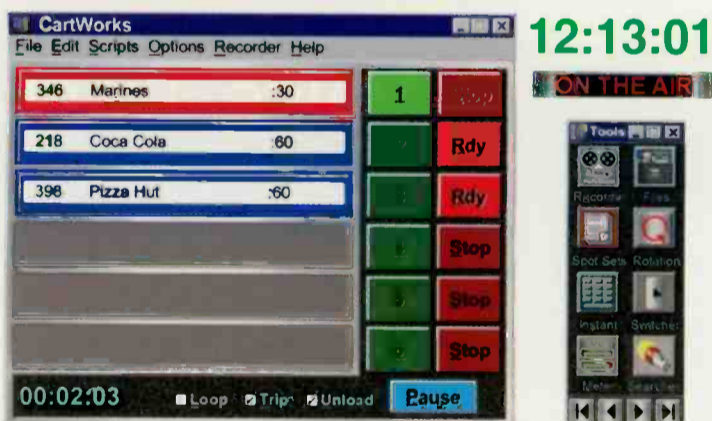
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12:20:26	M2174	Friends	Elton John	02:20	:05	C	MUS
12:20:26	M1732	Dance The Night	Van Halen	02:47	:13	F	MUS
12:23:13	V026	Voice Track 26		00:12			VTK
12:23:25	DALIVE	SPOT SET		03:00		I	COM
12:26:25	J011	Jingle / Fast		00:06			Jin
12:26:31	M0713	Listen To Her Heart	Tom Petty	02:48	:11	C	MUS
12:29:19	V027	Voice Track 27		00:15			VTK
12:29:34	M2214	Black Friday	Steely Dan	03:40	:12	F	MUS
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**MD 46:** This handheld cardioid microphone embodies unique design features not found in other interview mics. Created through the needs of the NBC project manager for the 2000 Sydney Olympics, the MD 46 features the performance qualities of leading handheld interview mics, but with the added clarity of a studio mic. The result is a long handle design with wind attenuation and good off-axis rejection. Features a frequency response of 40Hz to 18kHz, cardioid pickup pattern, a nominal impedance of 350Ω at 1kHz. Overall length is 9.84 inches.

860-434-9190; fax 860-434-9022

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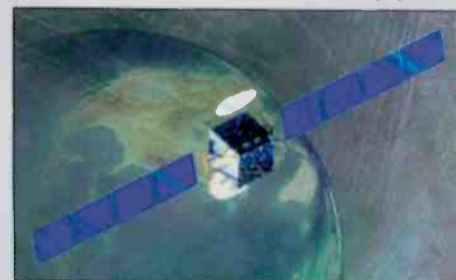
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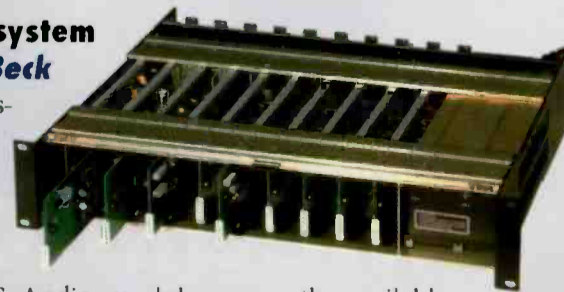
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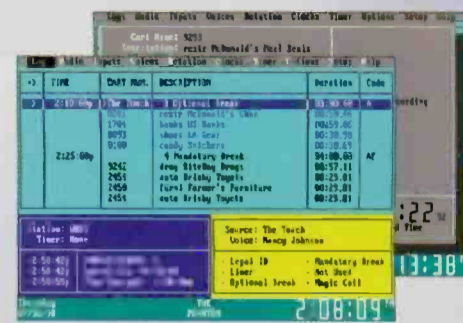
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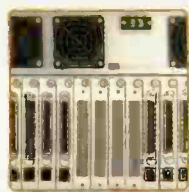
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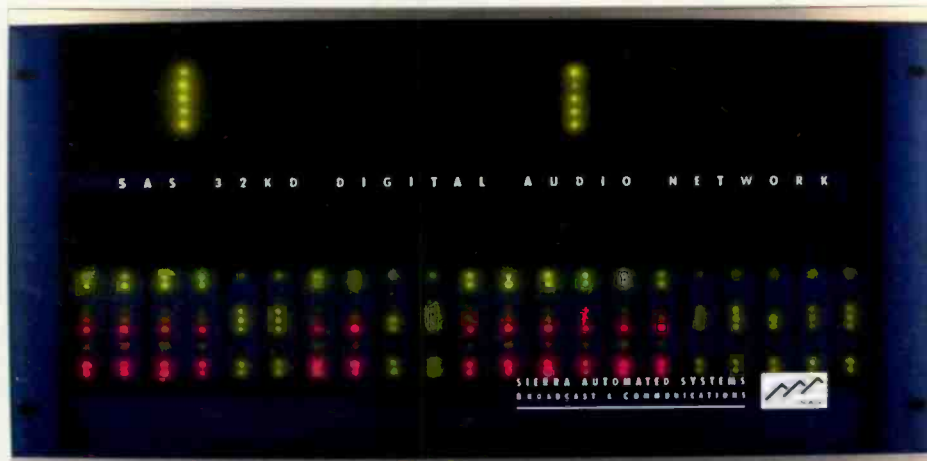
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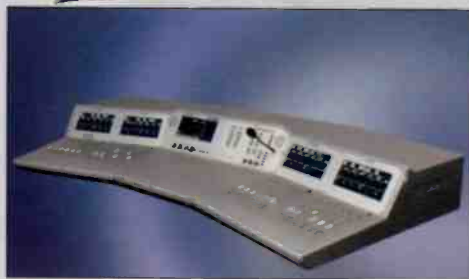
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# PRODUCT SOURCE



## Digital mixer Studer

**On-Air 2000M2:** The next evolution of the Studer On-Air 2000, the M2 includes extended functionality with an input configuration router and a newly-designed exterior. Protection of investment is part of the development as existing Studer

On-Air 2000s can be upgraded with the M2's functionality. The new Studer On-Air 2000M2 was developed for production and live broadcasting in network and local radio stations. Further potential applications include mobile and on-location production and broadcasting. The M2 can be equipped with 6, 12, 18 or 24 channel faders and with up to 24 input modules. A maximum of 24 input modules and 64 input signals can be controlled by the router. Each module can be either analog or digital offering two or six inputs, equipped with or without transformer and suitable for mic or line levels.

416-510-1347; fax 416-510-1294; [www.studer.ch](http://www.studer.ch); [studer@mail.studer.ca](mailto:studer@mail.studer.ca)

Circle (287) on Free Info Card or go to [www.beradio.com](http://www.beradio.com)

## Condenser microphone Studio Projects/PMI Audio

**C1:** A cardioid-only, large diaphragm mic, the C1 is one of three Studio Projects microphones available through PMI. The C1 is a transformerless mic with FET impedance converters, touting good common mode rejection and RF interference prevention. The capacitor element is of the center electrode design, providing an even frequency response over 20Hz to 20kHz. The capacitor membrane is 6 micron mylar, gold-sputtered, with its voltage polarized by the application of phantom power. Dynamic feedback at the capacitor element is a technique that eliminates distortion at high sound pressure levels.

310-373-9129; fax 310-373-4714  
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[sales@pmiaudiogroup.com](mailto:sales@pmiaudiogroup.com)  
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## Digital AM transmitter Harris



### DX Destiny:

Innovations include direct digital drive (3D) technology, digital serial adaptive modulation (DSAM), parallel/serial intelligent control (P/SIC), and the next level of hot-pluggability-hot serviceability. Each power amplifier module is driven directly by a low-level digital signal, eliminating the intermediate power amplifier. Harris has also developed a series of new technologies to make the DX Destiny virtually auto-serviceable. Digital serial adaptive modulation (DSAM) monitors each serial modulation encoder and RF power amplifier module in the transmitter and makes automatic adjustments. Parallel/serial intelligent control (P/SIC) provides another level of redundancy. A full logic level parallel control system is overlaid with a microprocessor-based serial control system. Additional options will allow transmitter control through a PC, a network, or over the Internet. Either control system can independently run the transmitter if the other is out of service.

800-622-0022; fax 513-459-3890

[www.harris.com](http://www.harris.com)

[broadcast@harris.com](mailto:broadcast@harris.com)

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## Transmitter reseller Transcom Corp

**Pre-owned transmitters:** Transcom buys transmitters and sells high-quality used AM and FM transmitters and is a manufacturer representative for new antenna, cable, STL equipment and audio equipment.

800-441-8454; fax 215-938-7361

[www.trcorp.com](http://www.trcorp.com)

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## Microphone preamp Great River Electronics

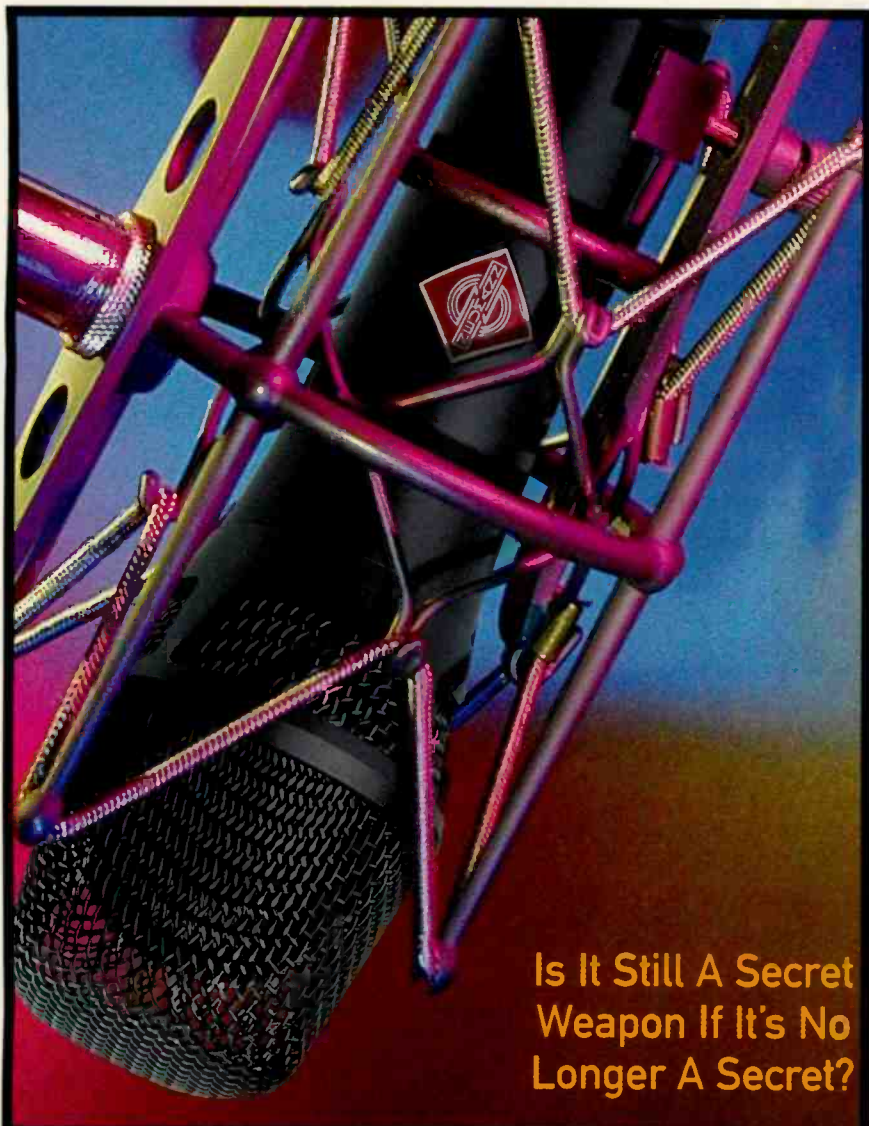
**MP-2:** A two-channel, single rack space unit. Each channel is a transformer coupled, class A discrete solid state design. All switches, relays and internal audio connectors have gold-plated contacts. Each part in the preamp has been carefully selected for maximum sonic value and long term reliability. Both channels have rear mounted microphone input jacks as well as front panel mounted 1/4" high impedance input jacks. Each channel also has a 15dB pad, a polarity control, phantom power switching, an overload LED and a 24-position gain switch. Input and output connections are gold-plated XLRs. Power is supplied via a detachable AC cable.

612-455-1846; fax 651-455-3224

[www.greatriverelectronics.com](http://www.greatriverelectronics.com)

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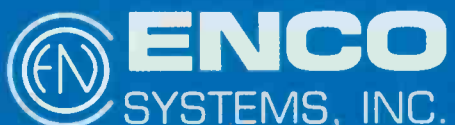
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## Multi-pair cable Gepco International



**Riser-rated Gep-Flex:** Gepco will feature an improved version of its Gep-Flex jacketing compound found on most Gepco multi-pair products. The new Gep-Flex compound elevates the cables to a higher UL-CMR riser rating, while maintaining the flexibility, durability, and all-weather properties for which Gep-Flex is known. In addition, the finish of the cable is now smoother, allowing for easier installation through conduit. This new Gep-Flex jacket compound is available on all of Gepco's main line of GA618 series (22 gage) and GA724 (24 gage) analog audio multi-pair cables, as well as Gepco's premier 5596GFC series of wide bandwidth digital audio multi-pair.

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www.gepco.com; gepco@gepco.com

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## Serial data router

### Broadcast Tools

**SDD-8:** A serial data (router) direc-



tor with one master RS-232 port, and eight RS-232 target ports that can be selected under software control from a host computer or other serial devices, the SDD-8 features a DB-9 female connector master port, with reversing jumpers for the RX/TX pins. There are eight DB-9 Male connectors for target ports one through eight (with reversing jumpers). A green LED indicator displays the status of each serial port. Two yellow LED indicators show the power status. A pair of LED indicators monitors the internal serial bus. The on-board switching regulator allows for operation on AC input voltages from 12 to 24VAC. The SDD-8 is supplied with a 12 Vac @500ma power cube. An expansion connector can be used to connect up to three additional SDD-8 units on the same local bus, allowing for a one of 32 target serial port selection.

877-250-5575; fax 360-854-9479; www.broadcasttools.com; bti@broadcasttools.com

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## MP3 controller Numark Industries

**DMC-1:** A rack mountable, multi-functioned dual MP3 controller that allows DJs to instantly locate, play, mix, sample, loop, and remix on-the-fly digital song files stored in MP3 format on their computer's hard drive, the digital media controller DMC-1 is modeled after Numark's CND-22 dual CD player, and loaded with Visiosonic's powerful PCDJ Pro Digital DMC software. This controller enables any DJ to create and perform live musical compositions not possible with dual CD players or vinyl turntable systems.

401-295-9000; fax 401-295-5200

www.numark.com

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## studio furniture Studio Technology



**Basis:** The line of Basis furniture is designed to be a standard-configuration built-to-order concept in studio furniture. Standard designs are made as versatile as possible to fit a variety of equipment and operational situations. With most of the company's products built to order, customers can start with this line as the basis for studio furniture and budgetary needs. Designs can be modified to fit studio space, a specific piece of equipment or work habits. There are three standard configurations from which to choose. Basic options can be selected from existing drawings, colors and finishes for a fixed base price. The Basis U-GS is U-shaped with a guest space on the side, the Basis U-GF moves the guest to the front. The Basis L-GF is an L-shape with a guest space in the front.

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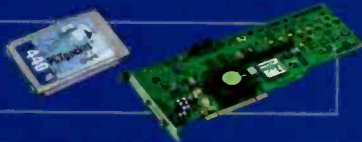
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## ADVERTISEMENT

### Genelec Re-invents the S30 with Expanded Digital Performance

As one of Genelec's latest additions to its line of Active Monitoring Systems, the S30D brings the superior-sounding 24-bit/96kHz monitor system to a new level in digital audio reproduction. Based on the legendary Genelec S30 (launched in 1978), each 3-way enclosure features an 8" woofer loaded in a vented cabinet allowing accurate frequency response down to 36Hz; a 4" mid frequency cone driver sealed in a cast alloy aluminum housing; and a proprietary ribbon tweeter with a moving mass of only 32mg, with a frequency response extending up to 50kHz. This extended frequency response is critical in utilizing the maximum potential of today's 96kHz machines, setting a new standard of accuracy with minimal distortion. AES/EBU digital inputs and analog XLR inputs are provided. With an optional impedance adapter, S/PDIF signals can also be accepted for convenience in almost any format.

The S30D monitoring system is able to keep up with today's most advanced forms of digital audio, accepting digital signals with a word length of up to 24 bits and sampling rates up to 100kHz. The system's D/A converters are designed with an interpolator, which increases the internal sampling rate up to eight times the original before a fourth-order delta-sigma modulator. These converters are matched with corresponding power amps and speakers, ensuring a more natural sounding monitor with outstanding high frequency reproduction and uncommonly precise bass reproduction for a cabinet of its size (19" x 12 5/8" x 11 1/3"). The conversion process used in the S30D has a high resilience to clock jitter, along with excellent linearity and automatic detection of word length and sample rate. This not only provides the best sound reproduction in a given



situation, but also allows for virtually unlimited compatibility with the many digital audio systems widely used today.

Genelec's finely tuned cabinets and drivers are precisely matched with bass, mid and treble amps, each providing 120 watts—more than enough power and clarity for all applications. Designed for near-field environments, the S30D is available in both vertical and horizontal versions and is ideal for multichannel digital workstations, broadcast production, post production facilities and mobile recording vehicles.

Other features of the S30D include selectable D to A gain settings, a digital-loop-thru allowing the signal to be re-transmitted to other S30Ds or other digital equipment, and fast, low-distortion amplifiers capable of driving a stereo pair of S30D's to SPLs of 122dB @ 1 meter.

Circle (185) on Free Info Card or go to [www.beradio.com](http://www.beradio.com)

### Genelec Announces the 2029B 24-bit/96kHz Digital Active Monitor

The 2029B Digital Stereo Monitoring System is a compact (9.75" H X 6.0" W X 7.5" D), two-piece, nearfield monitor system designed for sound professionals working in a wide range of critical listening environments, including digital audio workstation music production and editing, digital broadcast confidence monitoring, multimedia projects, and location/live sound recording.



The 2029B is an XLR, AES/EBU 24-bit/96kHz version of the highly successful Genelec 2029A 24-bit/48kHz Active Digital Monitor, and supports the same modes of operation, including use in monitoring systems with a Genelec 1091A subwoofer. This faster brother of the 2029A is ideal for direct connection to on-line and off-line editing systems, making it the ultimate extension of any workstation. The 2029B system is comprised of one right *master speaker* and one left *slave speaker*. Stereo level adjustment is controlled by the right master speaker.

The 2029B's digital interface is built into one of the speaker system's enclosures, and like all Genelec monitors, the new 2029B also features built-in, perfectly matched amplifiers. The only connections required are the digital (or analog) input signals and AC power. The 2029B's digital input accepts an AES signal with a word length of up to 24-bits and sampling rates up to 100kHz. The built-in D/A converter yields a dynamic range of more than 112dB. The sophisticated conversion circuitry yields high resilience to the problem of clock jitter and also features excellent linearity specifications.

Low frequencies are reproduced by a 5" driver, which is magnetically-shielded in a rugged, vented, cast-aluminum enclosure. The enclosure features rear-panel heat sinks, which properly dissipate any heat from the speaker's built-in power amplifiers. The low frequency 3dB point is at 68Hz and the response extends down to 60Hz. The high-frequency driver is a 3/4" magnetically-shielded metal dome coupled to Genelec's Directivity Control Waveguide Technology™ (DCW) for superior imaging and balance. An active internal crossover network, fed directly from the system's D/A, is acoustically complementary and crossover slopes are 24-32dB/octave; the crossover frequency is 3.3kHz. Rear-mounted frequency response controls allow users to tailor the monitor's characteristics to virtually any acoustic environment. The 2029B's built-in fast, low-distortion dual amplifiers can produce up to 40 watts of output power and are capable of driving a stereo pair to peak output sound pressure levels of 110dB SPL.

For installation, a special audio cable connects between the 2029B's rear-of-speaker connectors (male-to-male XLR provided).

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## Accuracy – from A to B.



## Genelec's Digital Double Play.

### The 2029A S/PDIF

Today's audio control rooms and media production facilities are fast becoming all-digital environments. With the proliferation of digital workstations, the only tools which aren't digital are microphones and audio monitors. Until Now.

The 2029A and 2029B Digital Active Near-field Monitoring Systems are complete digital solutions that complement the interface from digital bitstream to acoustic energy. The extremely linear, integrated D-to-A converters circuitry used in both models offers a precision-matched electrical interface to the active electronics and amplifiers.

This results in the best possible resolution and reproduction of your carefully-crafted, all-digital productions — whether they're from a desktop suite or a mega-studio facility. Developed from our highly-acclaimed 1029A analog near-field monitor, the 2029A or 2029B can also be used in conjunction with our 1091A subwoofer to create an incredible power-packed,

### The 2029B AES/EBU

full-bandwidth stereo monitoring system. The 2029A's are precision-aligned and balanced — from the single stereo 24-bit S/PDIF digital input — to their highly-efficient, 110dB/SPL matched drivers.

The 2029A is 48kHz compatible.

The 2029B offers the same precision alignment with an AES/EBU digital interface on a digital XLR-type input.

The 2029B is 96kHz compatible.

In both models, stereo listening level is controlled with a single, front-mounted adjust knob. And like any other Genelec Active Monitor, rear-mounted room response controls let you match the speaker's response to your room's response.

Want to hear what digital audio really sounds like? Audition the 2029A for an S/PDIF digital rig, or the 2029B for your studio's AES/EBU digital network — two more great reasons to invest in Genelec.



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## Field mixer/phone interface JK Audio

**RemoteMix Sport:** Built around the RemoteMix 3, with features added specifically for the needs of sport broadcasts. The three-input mixer (for play-by-play, commentary and crowd) also supplies three separate headphone outputs. Other features include a headphone cue input, an XLR output selectable between local mic mix or local plus backhaul mix, DTMF keypad, and universal handset interface. Ideal for use with POTS and ISDN codecs. The cue input jack on RemoteMix Sport supports two-way communications through any wireless phone that accepts a 2.5mm headset plug. Wireless-ready RemoteMix Sports include a 1/4" to 2.5mm shielded cord. If you own an earlier release of RemoteMix Sport, or any other JK Audio RemoteMix series mixer, you can use the new JK Audio Daptor One wireless phone adapter for your wireless broadcasts.



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## Delivery platform ChainCast Networks

**ChainCast Content Delivery Platform:** A scalable, open platform, the CCDP provides cost-effective, high-quality content delivery. ChainCast offers the CCDP as a managed service, providing customers with complete, end-to-end operation of a streaming infrastructure. The technology allows customers to stream content at a lower cost by creating dynamic distribution links or chains between users. This peer-to-peer technology enables consumers with sufficient bandwidth to act as splitters—seamlessly sending streams to additional users. The CCDP features guaranteed quality of service (QoS), carrier-grade reliability, and a cost savings of at least 50% in the delivery of streaming content over competing options. Compatible with third-party streaming media applications, the CCDP provides the power to integrate with existing content delivery networks.

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## Resistance tester Fluke

**1520MegOhmMeter:** For testing insulation resistances up to 4000MΩ and AC/DC voltages up to 600V. The Fluke 1520 offers a backlit LCD, which displays an analog bargraph and digital readings simultaneously.



It autoranges to the proper test voltage: 250, 500, or 1000V. It also automatically switches to voltage test when it detects either AC or DC voltage greater than 30V. Switch to the Lo-Ohms function for testing connections. It even has a last reading memory display function. The 1520 safely autodischarges the test capacitors when done. The 1520 comes with TL27 heavy duty test leads, TP74 lantern tip test probes, AC86 large jaw alligator clips, protective holster with hand strap, carrying case with accessory storage, four C-cell batteries, and an instruction manual.

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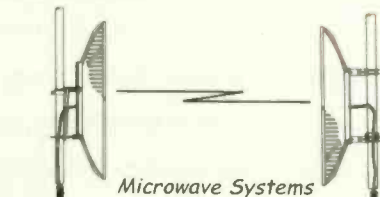


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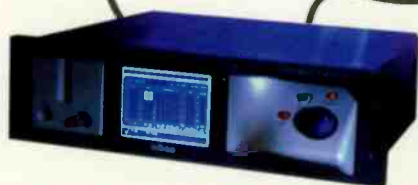
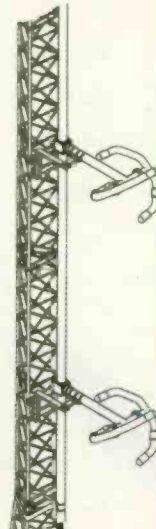


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## ASDL Tester Agilent

**Aurora Presto:** This compact, flexible unit can provide analog line testing, ADSL layer testing with "Golden Modem" operation and ATM layer or IP application layer testing, all using one touch, fully automatic testing or manual expert mode for more in-depth diagnosis. Fully automated Go/No go testing is provided from up to 20 selectable user-defined test profiles which may be edited on screen or via PC. Aurora Presto with the ATU-R can function as a "Golden Modem". In this mode the Presto replaces the remote modem, connecting to the user equipment through either its built-in 10BaseT Ethernet port or the optional ATMF 25.6 interface card. With the modem card installed, the Presto can measure upstream/downstream rates and DMT BIN capacity, perform line BERT and other tests, providing results in exportable text or graphical form.



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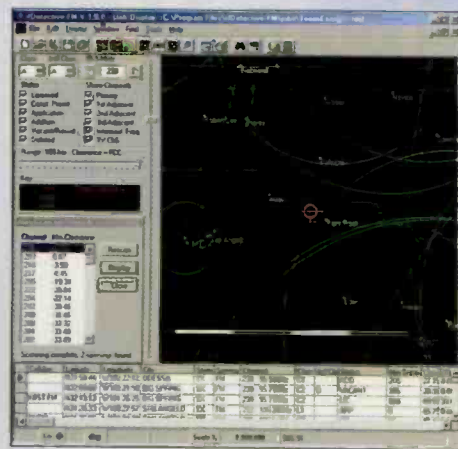
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www.musicmusicmusic.com

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## Digital on-air broadcast console Harris

**Pacific Legacy:** Legacy offers a fully modular, low profile ergonomic design. Features include: mainframe sizes 14, 22 and 30 input modules; A and B inputs that accommodate analog and digital sources; hot swappability of all modules; digital and analog outputs for four program buses, stereo send and telco record mix; off-line and mix-minus outputs for up to four telco/codec input modules; stereo cue with automatic metering; Easily accessible I/O connections and set-up switches; and a full suite of opto-isolated control logic.

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## Studio furniture Spacewise Broadcast Furniture

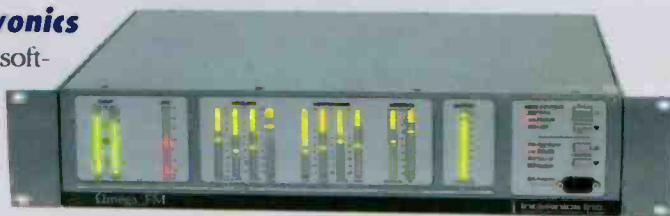
**BlendedTone Airshow 2000:** A premium wood-built and laminate system, it comes in three suggested configurations: guest show, with guests on one side of the operator; the morning show, with morning talent opposite the operator, and the general studio configuration, a full-sized studio. Features all finely finished solid woods for bullnosing, trim and kicks. Tops are 1.5" thick throughout and finished with 1,005 premium laminates. Sidewalls are birch-finished plywood, with 100% choice laminates on the exterior. Units come in large-scale modular components. Options include upgraded woods (like cherry or walnut), wood finished sidewalls and customization.

800-775-3660; fax 480-704-6149; www.spacewise.com; info@spacewise.com

Circle (286) on Free Info Card or go to www.beradio.com

## Digital FM processor Inovonics

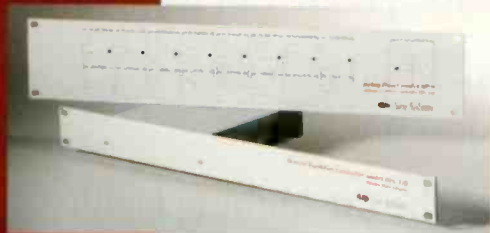
**Omega\_FM:** A largely software-based digital on-air processor/generator, Omega\_FM offers a short and direct program signal path that keeps latency (audio delay) at a minimum. The user interface includes a no-menu front panel setup that suits a variety of applications, or allows any PC to be connected for control over all processing parameters.



800-733-0552; fax 831-458-0554; www.inovon.com; info@inovon.com

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[www.primeimageinc.com](http://www.primeimageinc.com)

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**(Neutrik Test Instruments)**

**Digilyzer DL1:** Provides a comprehensive set of analysis functions for digital audio- and video-related audio signals. All commonly standardized sampling frequencies up to 96kHz are handled in consumer and professional formats. The Digilyzer DL1 is a handheld, battery-powered device in the size of the analog analyzer Minilyzer ML1. Features include AES3, S/PDIF, TOS-link; ADAT interface; sampling frequency 32 to 96kHz; digital audio analysis; carrier status analysis; carrier signal measurement; monitor speaker and event logger.

+42 323 96060; fax +42 323 96089

[www.nt-instruments.com](http://www.nt-instruments.com)

[info@nt-instruments.com](mailto:info@nt-instruments.com)

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805-373-1828; fax; [www.tc-helicon.com](http://www.tc-helicon.com); [info@tcelectronic.com](mailto:info@tcelectronic.com)

Circle (244) on Free Info Card or go to [www.beradio.com](http://www.beradio.com)

**Analog/Digital audio generator**  
**Dorough Electronics**

**TG-10A:** An audio signal generator that can be used in a variety of test situations where a stable and accurate test and tone source is needed, TG-10A features digital and analog audio outputs along with a full set of connectors. Pass-through connectors for digital and analog inputs are supplied for normal program sources when the TG-10A is in the bypass mode. Functions include: mute, digital quiet, continuous tone, burst tone, step tone, parabola, burden, overs test, sample rate conversion and digital audio to analog conversion. Generator can be locked to an external AES bitstream. Digital sample rates are 32, 44.1, 48, 64, 88.2 and 96k samples per second. Frequency range is 10Hz to 0.45 of sample rate with 1Hz resolution.

818-998-2824; fax 818-998-1507; [www.dorough.com](http://www.dorough.com); [doroughel@aol.com](mailto:doroughel@aol.com)

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[www.dpamicrophones.com](http://www.dpamicrophones.com)

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**Active nearfield monitor**  
**Klein + Hummel**

**O 300 D:** Within the framework of a planned reorganization of model descriptions for studio monitors, this model offers the same acoustical features as the O 198. The bass frequency response has been extended to 40 Hz. All other measurements and the outward appearance of the O 300 D remain the same. Features include a digital input with a 24-bit/96kHz D/A-converter, allowing the direct connection to a digital source in AES/EBU or S/PDIF-format. The output power of the amplifier for the tweeter, mid and woofer have been extended, technical values have been improved. The room equalization can now be aligned with all set up variants and the room acoustic. Limiter protection has been optimized for all three parts. The balanced floating input reaches better distortion values, and the groundlift switch is on the rear panel.

+49 711 45 89 30; fax +49 711 45 89 335; [www.klein-hummel.de](http://www.klein-hummel.de); [sales@klein-hummel.de](mailto:sales@klein-hummel.de)

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**Coaxial Dynamics'**

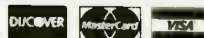
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**Digital consoles**  
**Arrakis**

**Revolution:** Both analog and digital, the Revolution is a radio console that is at home in either type of studio. The Revolution console is a modular, two piece design made up of a rack mounted digital audio engine and a control system. The control system can be a traditional-looking console or a PC computer, or both at the same time. The control console is also modular, making it quick and easy to replace worn faders or to expand the system. The digital engine features two serial control ports, enabling the console to be monitored and controlled from two places simultaneously. Turret control software for a Windows PC is suitable for the talk studio. For telephone talk radio and contest caller applications, the console supports two simultaneous callers via two mono mix-minus buses.

970-224-2248; fax 970-493-1076

[www.arrakis-systems.com](http://www.arrakis-systems.com)

[sales@arrakis-systems.com](mailto:sales@arrakis-systems.com)

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# PRODUCT SOURCE

# BE Radio

## Portable studio

### Tieline America

**I-Mix:** Combines all the features of a remote broadcast portable mixer with built-in ISDN and POTS codec capable of 15kHz audio. The remote broadcast mixer accepts up to five mic/line inputs and provides a mix-minus bus. Intercom buttons on each input allow off-air communications between headsets. Also features channel on/off buttons, and cue and relay control buttons. All hardware features are software controlled and can be upgraded. The codec has G3 GSM Cellular and IP data network interfaces. Proprietary, full-bandwidth ISDN and POTS speech and music algorithms deliver 15kHz audio with less than 100ms delay. The unit can also interface with generic codecs using G.711 and G.722 algorithms. Fully interfaces with the Tieline Toolbox software package, which allows PC remote control for chat, upgrades and system monitoring.

317-334-9390; fax 317-416-7366

[www.buytieline.com](http://www.buytieline.com); [sales@buytieline.com](mailto:sales@buytieline.com)

Circle (296) on Free Info Card or go to [www.beradio.com](http://www.beradio.com)



## Broadcast system

### Prophet Systems

**NexGen Digital NS:** This entry-level NexGen automation broadcast system is designed for smaller stations or radio groups. Stations not requiring all the features of a fully-loaded NexGen Digital Broadcast system can purchase the NS system and still take advantage of PSi's technology. Runs on a Pentium III computer or better, Windows98 or WindowsNT or higher, with at least 128 MB RAM, a 9GB hard drive, 800x600 monitor and a 10/100BaseT network interface card.

800-658-4403; fax 308-284-4181

[www.prophetsys.com](http://www.prophetsys.com); [sales@prophetsys.com](mailto:sales@prophetsys.com)

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## RF field-strength meter and modulation analyzer

### Audemat

**FM\_C3:** A mobile RF field-strength meter and modulation analyzer, the FM\_C3 automatically measures up to two stations or programs simultaneously. The unit displays readings in text, chart and curve representation of stations monitored. Features include: GPS receiver and RDS/RDBS decoder; calibrated antenna; modulation analysis; high performance FM receiver and text and curve display.

866-AUDEMAT; fax 703-433-5452; [www.audemat.com](http://www.audemat.com); [info@audemat.com](mailto:info@audemat.com)

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**Inovonics**  
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[www.inovon.com](http://www.inovon.com) • e-mail: [info@inovon.com](mailto:info@inovon.com)

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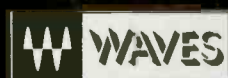
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Tel: 972-54-360-470



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Storage area network  
Dot Hill Systems Corp



**SANnet 7100:** The initial member of the full fibre SANnet 7000 series, SANnet 7100 delivers seamless migration from the SANnet 3000 series (SCSI/SCSI) and the SANnet 4000 series (SCSI/fibre). This allows customers to maximize their investment by integrating the new system into their existing SANnet-based storage area networks. The system delivers unparalleled capacity and scalability with a SAN-ready redundant Fibre Channel network that directly supports up to 16 servers and can scale to over 58 terabytes (TB). The SANnet 7100 also features Fibre Channel server-attached RAID controllers that can support up to 160 disks each, depending on configuration. Usable disk space is 5.8TB space per controller pair with 10,000-RPM 73GB drives.

800-872-2783; fax 760-931-5527  
www.dothill.com; websales@dothill.com  
Circle (232) on Free Info Card or go to www.beradio.com

## Numix enhancements Logitek

**Blank wedge, Button24 wedge and Euro-version control surface:** Enhancements to the Numix Console control surface include the Blank wedge, a wedge with blank top panel and empty pan for mounting custom devices or control hardware. The Blank wedge adds extra space where needed in a studio, allowing for custom button installations or other desired functions. Also included is the Button24 wedge. Usefulness of this product is enhanced through Logitek's Supervisor software. The buttons can be programmed to accomplish a variety of tasks and functions both inside the Logitek system and with external equipment. Finally, there are the Euro-Version Numix control surfaces, which incorporate GPI buttons on Selector wedges to provide functionality commonly requested by European customers.

877-231-5870; fax 713-664-4479  
www.logitekaudio.com; info@logitekaudio.com  
Circle (256) on Free Info Card or go to www.beradio.com

## Mic kit Audix USA

**Fusion series:** The new series features three models: F10 dynamic, optimized for snare, toms, and bongos; F12 dynamic, optimized for kick drum and congas; and F15 condenser, for overheads, high hat, and toys. The F-10 and F-12 dynamic microphones each come



with an integral clip in order to simplify set-up. The mics are available in two package configurations: Fusion Series 4 contains three F10 and one F12; Fusion Series 6 contains three F10, one F12, and two F15.

800-966-8261; fax 503-682-7114  
www.audixusa.com  
info@audixusa.com

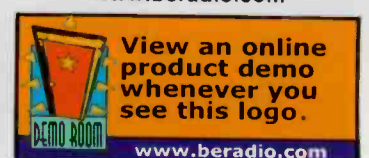
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## PC-card audio processor Orban

**Optimod-PC:** Tailors audio signals to aid in digital audio broadcasting (DAB), Internet Web/netcasting, and recording applications. Optimod-PC is a PCI Sound Card with on-board digital signal processing that is suitable for both live streaming and on-demand programming. The DSP provides a loud, consistent sound to the consumer by performing automatic gain control, equalization, multiband gain control, and peak-level control. Optimod-PC offers such features as two digital inputs with mixing of asynchronous sources, and sound card emulation that allows Optimod-PC to talk through the operating system to applications running on the host. Optimod-PC uses look-ahead limiting with low overshoot, effectively preventing clipping in the sound card or encoder overload. Optimod-PC ships with more than 20 factory presets.

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# PRODUCT SOURCE

# BE Radio

## Time insertion processor Prime Image

**Cash:** Cash allows stations to create an additional 60 seconds for every 10 minutes of programming. The system does so undetectably, without altering pitch or creating digital artifacts. It works live, in real time, on the air. The amount of time Cash creates varies from zero minutes to four minutes and can be added to any period of time within the range of two minutes and two hours. The station can select and change the amount and the rate at any time.

408-867-6519; fax 408-926-7294  
www.primeimageinc.com; primeimagein@earthlink.net  
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## Audio failure control unit SBS

**Guardian:** The Guardian Broadcast Audio Fail Control Unit is designed to provide sophisticated management of audio signals, such as telco lines, STLs and multiplex signals. Incoming signals are monitored, and if a fault is detected on one channel, it will derive a mono feed from the remaining channel. If both channels are lost, it will switch to an external source, such as a CD, to keep the transmission running. Audio signals are passed through the Guardian on relay contacts, giving a fail-safe system with no active components in circuit. Uses 300Hz to 3kHz bandpass filters followed by separate dynamic range and static level detectors to discern between fault conditions such as 50Hz or 60Hz hum on a line and valid program feeds. This technique almost eliminates false triggering. A pilot detector (which can be disabled) is included in the multiplex detector, switching to the backup immediately if it is lost.

+44 14244 45588  
fax +44 14244 43388  
www.sbs.uk.com; sales@sbsfm.com  
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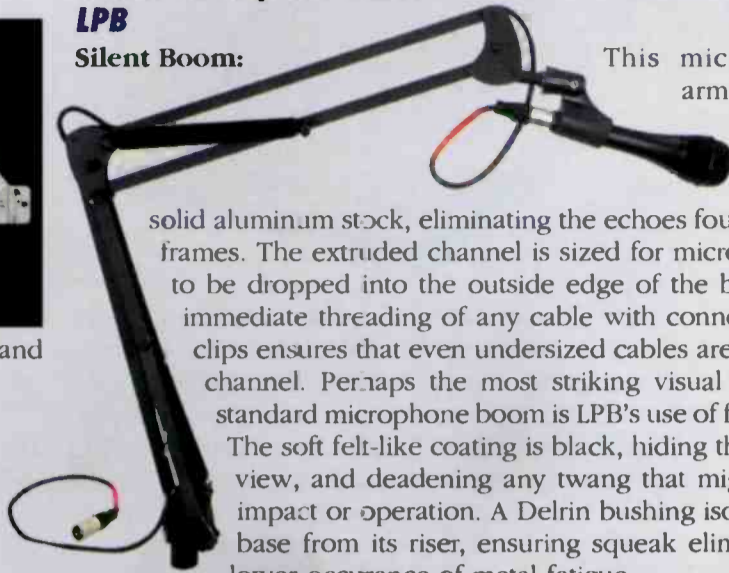
## Studio microphone arm LPB

**Silent Boom:**

This microphone arm is built from custom extruded

solid aluminum stock, eliminating the echoes found in hollow frames. The extruded channel is sized for microphone cables to be dropped into the outside edge of the boom, allowing immediate threading of any cable with connectors. A set of clips ensures that even undersized cables are secured in the channel. Perhaps the most striking visual change to the standard microphone boom is LPB's use of flocked springs. The soft felt-like coating is black, hiding the springs from view, and deadening any twang that might occur from impact or operation. A Delrin bushing isolates the metal base from its riser, ensuring squeak elimination, and a lower occurrence of metal fatigue.

610-644-1123; fax 610-644-8651  
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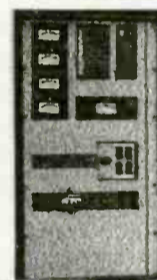
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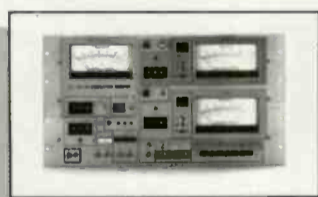
FM Exciters

Digital T1 STL Systems

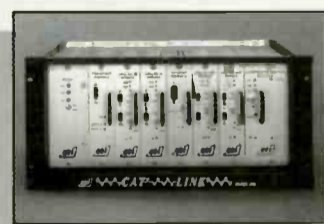
Digital Spread Spectrum

Digital Stereo Generators

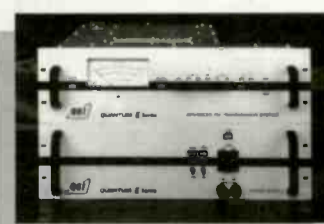
Modulation Monitors



Modulation Monitors



Digital STL / TSL Systems

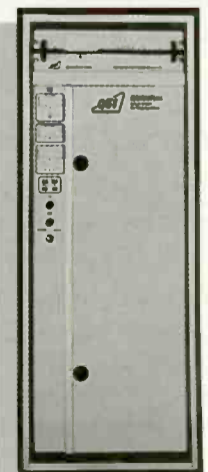


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## Audio console

### Auditronics

**2600 Series:** This series combines elegant design elements with solid construction. The modular design uses gold contact connectors that plug straight into motherboard sockets, and features 12 input channels, a monitor module with control room, studio, headphone and talkback functions, an output module that provides program, audition, pre- and post-mono fader outputs, and independent meter selection. Additional line selector and tape remote modules are also offered. The 2600's design also features a flip-up meterbridge to access I/O connectors, logic programming dipswitches and calibration trimpots. Stereo program and audition buses, plus two additional mono outputs, optimize flexibility for caller feeds and broadcast recording.

252-638-7000; fax 252-637-1285

[www.auditronics.com](http://www.auditronics.com); [sales@wheatstone.com](mailto:sales@wheatstone.com)

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## Power amps

### Alesis/GT Electronics



### RA Series:

The amps incorporate a convection cooling system.

The RA150, RA300 and RA500 also feature DC coupled, fully complementary discrete amp topology, dual differential input stages, wide bandwidth, detented front panel level controls, overload/protect indicators, bridged mono operations, balanced 1/4" and RCA connectors, heavy duty, dual binding post output connectors, and a relay-controlled turn on/off system, in a heavy-duty steel chassis. Additionally, the RA300 and RA500 offer XLR input connectors and bar-graph metering.

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## Field production mixer

### Sound Devices

**442:** A field production mixer that sets a new standard for functionality, size, and performance in portable audio mixers, the 442 has four inputs, each includes: transformer-balanced mic/line level selection, phantom or T powering, variable input trim, continuously variable high-pass filter, pan, input peak limiter, solo monitoring, and direct output. Outputs are transformer-balanced on XLR, Hirose, and other connectors. Metering is via sunlight viewable LEDs. The unit is powered by four AA batteries or a DC power supply. The 442 is compact, and its durable metal chassis is designed to withstand the extremes of field production. Its design was driven by the requirements of professionals in film, TV news, documentary, radio, effects recording, and music production.

608-524-0625; fax 608-524-0655

[www.sounddevices.com](http://www.sounddevices.com); [info@sounddevices.com](mailto:info@sounddevices.com)

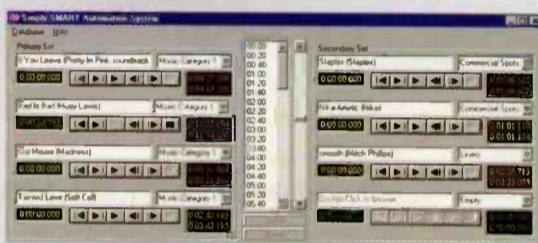
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## Automation system

### Smarts Broadcast Systems

**Simply Smart:** Using the Windows interface, this free software package incorporates multiple MP3 audio streams, creates dynamic play lists and can handle commercial breaks. Silent



Sense technology detects when audio is missing and will automatically start the next item in 10 seconds. Ideal for smaller installations or overnight operations.

800-747-6278; fax 712-852-5030; [www.smartsbroadcast.com](http://www.smartsbroadcast.com)

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## Combiners

### ERI-Electronics Research

**iBOX:** The simplicity and flexibility of iBOX brings the benefits of simultaneous digital and analog transmission with an affordable price. Advanced coupling and transforming methods deliver the performance necessary to meet and exceed the IBOC transmission requirements. iBOX features include: integrated smart power

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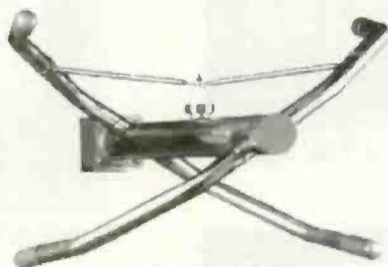
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# PRODUCT SOURCE

## On-air console LPB

**Blue 5c:** Features RJ-45 Ethernet and CAT-5 connectivity, two independent headphone amps, heavy-duty military specification switches, a mono telephone bus and 10 stereo inputs. Also has a stereo cue bus, five stereo channels, a stereo program bus, and input-follow-remote starts. Offers transformer balancing for RF immunity. Ideal for LPFM, webcasters and remotes.

800-644-1123; fax 610-644-8651; www.lpbinc.com; lpbinc@aol.com

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## CD-Rs

### Maxell

**Music Pro80 and Music Color 80:** Taken together, the new introductions combine two popular recordable CD features: 80-minute length for longer CD recording and color discs to facilitate organizing music by genre. The performance characteristics of Maxell's CD-R Music Pro80 come from advanced stabilization, a hard-coat anti-static surface and triple coating for scratch and heat resistance. In addition, it is produced on a master-quality stamper.

800-533-2836; fax 201-796-8790

www.maxellpromedia.com

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## Microphone

### Neumann

#### TLM 103

#### Monolith:

The 500-piece limited edition TLM 103 Monolith series features a black glossy lacquer finish. It features low self-noise coupled with high sound pressure level transmission. The large diaphragm Monolith shares the standard TLM 103's audio characteristics and boasts the same transformerless circuit found in numerous Neumann microphones.

860-434-5220; fax 860-434-3148

www.neumannusa.com

neumlit@neumannusa.com

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## LED display audio interface

### Prime LED

**ALI-53D:** A PC board to drive LED meters from analog or AES3 audio signals to generate a range of audio parameters for display. The unit can be configured to show VU, PPM, loudness, peak hold, correlation/phase, or any combination of these displays. The board creates a serial data stream that is sent to DDV display driver boards. Various ballistic and scale characteristics are possible, including multiple simultaneous display modes, such as a PPM dot over a VU bar. Requires 5VDC power. 27kΩ input impedance with Phoenix or XLR connectors. Maximum input level is +19dBu. Sample rate detects 32 to 48kHz automatically.

877-774-6533; fax 817-244-3732

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# BE Radio

## EAS receiver Dayton Industrial Corp



**AFC3:** The company's line of receivers is designed for professional or EAS monitoring. The receivers are available as stand-alone, or three can be housed in a 1 3/4-inch rackmount, the AFC3. The AFC3 contains a front-panel audio selector switch, mounted small speaker and headset outputs controlled by a volume control. Also mounted on the front panel are LED indicators that indicate carrier and modulation activity for each receiver. An alert indicator and test/reset switch is mounted on the front panel for those receivers that use alert tone detectors, such as the weather and public-service monitors. The rear panel contains outputs for the receivers. Uses a 12V power source.

941-351-4454; fax 941-351-6081

www.daytonindustrial.com; sales@daytonindustrial.com

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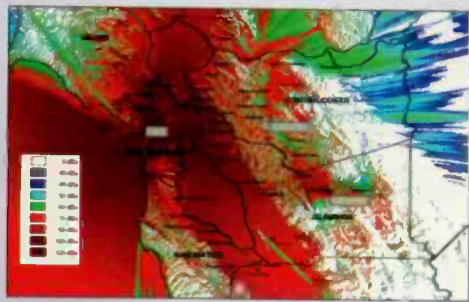
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## Site analysis software RadioSoft

**ComStudy 2.2:** Features include TIA-TSB88 frequency coordination compliance, area reliability analysis and mapping for any propagation model, transmitter matrix library import/export feature, individual station matrix editing and recalculation, increased accuracy, 32-bit operation for Windows, and a 256-color palette for contour and coverage mapping. Offers fully integrated transmitter databases, automatic interference calculations, area reliability studies, fast and accurate calculations, and real-time 3D displays. All FCC, TIA and ITU procedures are included. APCO coordination is standard.

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**www.radiosoft.com; pmoncure@radiosoft.com**  
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## Decorative rack filler Funk Logic

**3P-III Palindromer:** The newest addition to the line of decorative rack-filler panels features all the labels and controls written in palindromes. A toggle switch controls a red indicator light (powered by two AA batteries). It features a heavy-duty 1/8-inch thick aluminum faceplate, fine texture power coat finish, realistic-feel knobs. Fills 3RU.

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**www.funklogic.com; funklogic@funklogic.com**  
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## Transmitter remote control Electronic Associates

**DataWorks:** DataWorks operates using a dedicated data interface to a control site or as a stand-alone unit and includes standard voice, data and pager access and operating modes. It includes a multi-purpose interface that will operate as a dial-in channel using the DataWorks remote access program or a touch-tone interface with speech responses (optional). The interface mode is sensed automatically. In addition, the multi-purpose interface may be directed to automatically call out to selected phone numbers with announcements describing the condition or problem that caused the call. Up to eight different phone numbers are stored. The DataWorks user may program up to 16 custom voice messages using the voice dictionary.

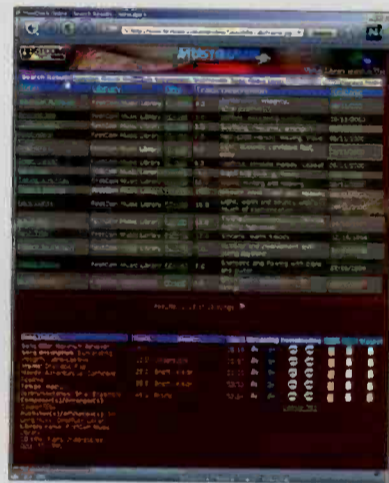
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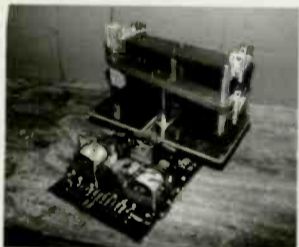
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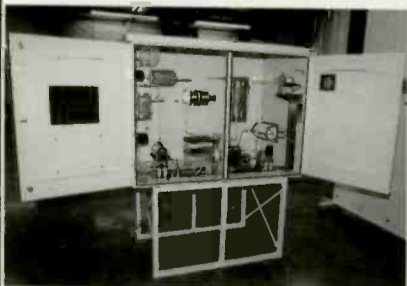
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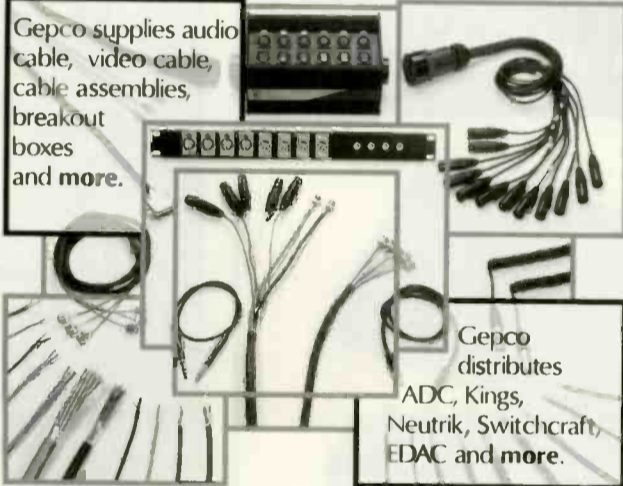
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# PRODUCT SOURCE

# BE Radio

## UPS MGE UPS Systems

**Galaxy 3000:** The online three-phase UPS offers scalable power protection from 10 to 30kVA and uses MGE's Ultra High Availability Topology (UHAT) to ensure that all critical loads are protected. The Galaxy 3000 supports 10 to 40 network servers. To increase battery efficiency, the Galaxy 3000 now incorporates a new battery testing module that increases UPS reliability and extends battery life. In addition, this management system can perform predictive failure analysis of the batteries—an essential feature, as batteries are the weakest link in any UPS system. Also new to the Galaxy 3000, is a load surge stabilization feature that allows the UPS output to be steady.

800-523-0142; fax 714-557-9788; www.mgeups.com; info@mgeups.com

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## Digital audio mixer Fairlight On Air

**Fusion:** A digital audio router and mixer in which the internal signal processing is carried out with 32-bit floating point DSP's (Analog Devices SHARC's). Internal over-modulation that sometimes occurs in devices with fixed-point processors will not occur, since the internal dynamic range is greater than 1,000dB. Asynchronous sample rate converters are used in the digital inputs of the Fusion engine; this makes input of digital consumer devices and non-synchronisable professional devices possible. Despite its features and flexibility in adapting to different applications, the cost of ownership for the mixer are competitive compared to an all-analog setup.

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## DSP hardware platform

### TC Works

**PowerCore:** A PCI card that acts as a DSP turbo, Power-



Core is an open-hardware platform for any VST recording application. It enables native users to run intensive high-end effects that previously taxed the host computer. Using the latest Motorola 56K DSPs specifically designed for audio, the TC PowerCore provides significant performance advantages over sole native processing, adding roughly the equivalent power of four Mac G4 processors on a single card, which also features an additional PowerPC chip. TC PowerCore delivers professional signal processing performance seamlessly integrated into any VST-compatible sequencer or audio application such as Cubase, Nuendo, Spark, Peak or Logic. The card introduces a new Plug-In format, VST PowerCore, which is implemented to run as an extension to VST. The user interface code runs on the host and acts like a VST plug-In, while all the CPU-intensive DSP code runs on the card, freeing up precious resources on the host computer for other native processes like VST instruments.

805-373-1828; fax 805-379-2648

www.tcworks.de; us@tcworks.de

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## Supervisory system Itelco USA

**ISS:** This system, with its windows-based software, enables control and management of a single transmitter to a whole network of transmitters. The ISS can be applied to any Itelco transmitter as well as to transmitters from other manufacturers. The open system architecture allows tailoring the system to the customer's specific requirements as well as modifying or expanding its features in the future. The ISS enhances the ease of transmitter maintenance by identifying the location and number of faults, providing maintenance date and time information, and allowing long-term trend analysis.

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## Radio automation software Tiesseci

**TS2000 pro K9:** This software provides broadcasters with world-class, high-quality, multi-format, digital radio automation products to suit the needs of a growing and diverse stations into the professional broadcast market. The new TS2000 pro K9 builds on the success of the TS2000 K8 digital automation platform that has been delivered to more than 7,000 stations worldwide in just over a year. The Tiesseci TS2000 is available as a software kit or as a complete turnkey studio system with all the hardware and software for production and air studios.


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www.tiesseci.it; infos@tiesseciusa.com

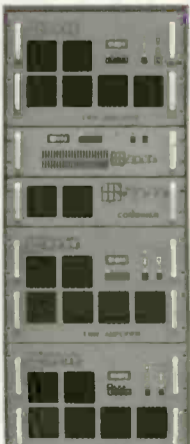
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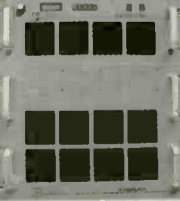
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## mixing console Studiomaster

Trilogy 406: The most powerful feature of the Trilogy Series and the Trilogy 406, is the ability, via stage mode switching, to convert from a front-of-house or recording desk, to a full-featured stage monitor desk. The T 406 also boasts 48 total inputs. The Trilogy 406 can be expanded from 32 to 42 channels (62 total inputs) or 52 channels (76 total inputs) via Studiomaster's T140ex 10-channel expander, connecting via Studiomaster's Tri-Link system. The Trilogy 406 features steel construction and is internally modular. Power is supplied via Studiomaster's external rackmount EP5U power supply. Additional features include: stereo control room outputs, two track tape outputs and headphone bus. The Trilogy 406 provides a full 32 XLR microphone input complement (28 balanced XLR/RTS line mono channels, with four balanced XLR/RTS stereo line combo channels).

714-998-2102; fax 714-998-2086

[www.studiomaster.com](http://www.studiomaster.com); [us-info@studiomaster.com](mailto:us-info@studiomaster.com)

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## Stereo mixer Radiomax/Intermax

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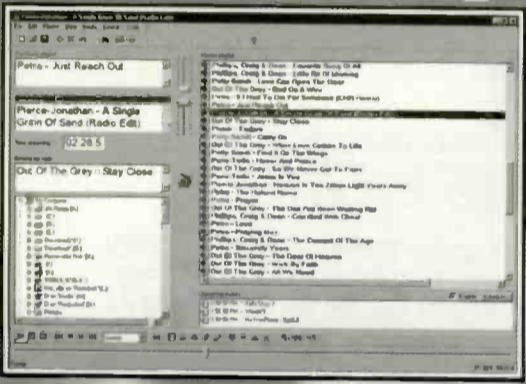
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5KW	FM	1985	BE FM 5A
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10KW	FM	1974	Harris FM10H/K
25KW	FM	1980	CSI T-25-F

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5KW	AM	1984	Continental 315R1
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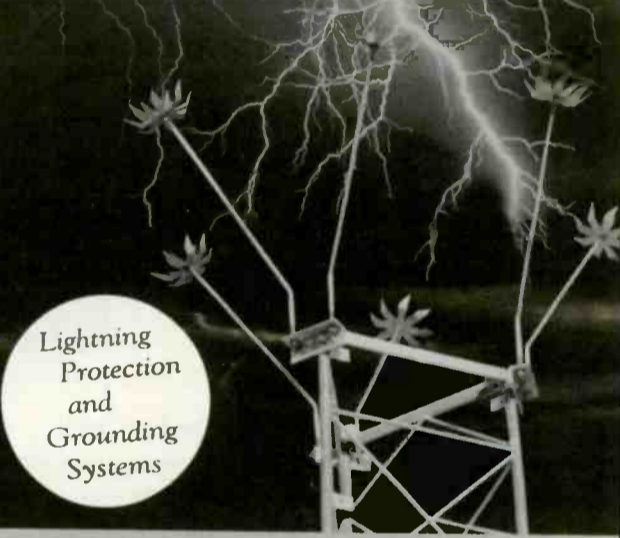
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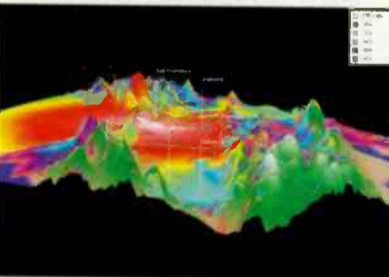
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[www.beradio.com](http://www.beradio.com)

The **DigaSystem** from D.A.V.I.D. seamlessly integrates production, on-air tools, file/format exchange and archiving modules into your operation for *unsurpassed performance* under pressure.

Over 80 different system options, or modules, are available: from multitrack recording, automated scheduling and rotation to newswire services, automated distribution & web publishing. An open, scalable and modular architecture allows your **DigaSystem** to grow with your expanding operation.

Producers will love the power of the multitrack editor while the engineers will be impressed by the robust design and underlying technologies. System administrators will have advanced user and group control and the Program Director can stay on top of playlists remotely.

Broadcast in total confidence with the DigaSystem - radio products used by leading professionals the world over.

## Maximize Your Radio Station's Potential

### Multitrack Editor

- Automatic file format recognition & conversion MPEG, WAV, & AIFF
- Unlimited undo and Auto save
- Time correction instantly matches the length of audio clips to an available time slot
- Multi-format clipboard capable of storing both audio and RTF text clips
- Direct-X Plug In support
- Cross fade mixing, looping, auto-duck & scrubbing
- WIN 9x/NT/2000

### Database Manager

Central database system for the management of all audio elements including text, transmission schedules and other control information.

- Organization of the entries by assignment (class), full-text name, department, and other attributes
- Search functions include pre-defined and configurable filters plus a full-text search
- Database support: SQL with ODBC interface (SQL Server, SyBase SQL, Oracle)



### DigaWebTools

Publish content from any workstation to a website at the click of a button.

### DigaStudio

Turn any client into a full-fledged digital audio workstation.



Desktop Controller

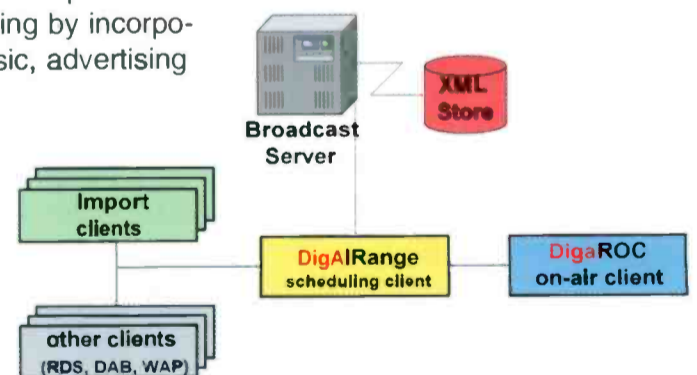


Rackmount A/D Converter (rear panel)

**DigaStudio** designed by **STUDER**

### Broadcast Server Suite

Provides complete control over all aspects radio programming and scheduling by incorporating news, spoken words, music, advertising and format elements.



Circle (158) on Free Info Card or go to [www.beradio.com](http://www.beradio.com).

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## DIGITAL AUDIO NETWORK ROUTER

- **BI-DIRECTIONAL FIBEROPTIC OR CAT-5 INTERLOCATION CONNECTIVITY**
- **ALL DIGITAL DOMAIN AES SWITCHING**
- **ANALOG OR DIGITAL (AES SAMPLE RATE) INPUTS**
- **BOTH ANALOG AND AES DIGITAL OUTPUTS**
- **SERIAL CONTROL AND DISPLAY WITH WHEATSTONE CONSOLES**

**THE 2001 MAKES AUDIO NETWORKING PRACTICAL.** It's simple to install, easy to learn, and certain to reduce system costs. Compact enough for small applications, yet stackable for tremendous growth potential, it's design consists of 7" rackmount digital routing cages, each capable of handling 512 simultaneous audio channels on its backplane.

Units can be stacked to suit particular card complements (analog or digital input and output cards or optical network cards) but more significantly cages can be separated by great distances and network their audio through either bidirectional fiberoptic links or a single CAT-5 wire. **ONE INTERCONNECT DOES IT ALL:** 64 channels of simultaneous bidirectional digital audio, intercage communication, X-Y controller commands plus auxiliary RS-232 data streams. This single interconnect between your studio and central rackroom can save you tens if not hundreds of thousands of feet of wire in a typical installation.

The 2001's graphic based setup software is intuitive and easy to use, with all the authorization and security levels you could want. And of course we have a full

complement of control panels and PC applications to choose from—all designed for straightforward operation and a rapid learning curve.

With 25 years of experience, Wheatstone has the infrastructure in place to help you build your OWN infrastructure. Contact us for answers.



**MIXED SIGNAL SWITCHING** is easily accomplished with a choice of AES digital or ANALOG 24-bit A>D input cards, and of course 24-bit digital or 24-bit D>A ANALOG output cards, all of which can be serviced from the front of the cage. All signals are routed entirely in the digital domain.

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