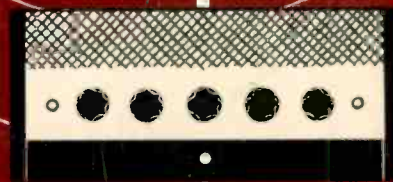


**RCA SOUND PRODUCTS**



# RCA SOUND PRODUCTS

## FOR QUALITY PERFORMANCE IN EVERY APPLICATION

The pages of this catalog illustrate typical equipments in the extensive line of RCA Sound Products. During more than a quarter century of experience in designing and merchandising sound apparatus, RCA has evolved high quality units to fill nearly every requirement. For complete information about the entire variety of RCA Sound Products, contact the RCA Sound Distributor.

**DISTRIBUTION** Every market area in the United States is served by an RCA Sound Products Distributor who maintains sales, engineering and service personnel to meet the demands in his territory. His broad experience in suggesting workable solutions to varied problems encountered in sound installations can be of great advantage. Adequate inventories are maintained by distributors to permit prompt delivery of equipment best suited to the particular requirements of any installation.

**BACKED BY RCA** RCA maintains a group of highly trained Sales Engineers working out of regional offices throughout the country. Backed by RCA research, engineering and manufacturing facilities, these Sales Engineers offer expert advice to architects, electrical contractors and other general users of sound equipment.

**NATION WIDE SERVICE** Supplementing and supporting distributor service, RCA maintains a nationwide service organization, the RCA Service Company, Inc., operating through eleven district offices, throughly equipped to handle on request or contract basis the service needs of all users of sound systems and of electronic products.

**TECHNICAL AIDS** Available to architects, engineers, service men and others identified with the application of sound, are product specification sheets, instruction books, and other technical data. These are obtainable from the RCA Sound Distributor.

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# MICROPHONES

Pressure . . . Velocity; Uni-Directional . . .  
Multi-Directional; Close talking . . .  
Broadcast type . . . Public address;  
Indoors . . . Outdoors

The highly specialized microphone skills and techniques which made RCA microphones standard equipment in broadcast studios have been adapted to the design and manufacture of the units shown

on these pages. Whatever the specific application, the best suited microphone may be found in the extensive array available from RCA Sound Distributors.



MI-6204-c

### MI-6204-c Varacoustic "Three-Way" Microphone

UNI-DIRECTIONAL, BI-DIRECTIONAL,  
OMNI-DIRECTIONAL

Where acoustic problems are anticipated, there's no "safer" microphone to use than this famous RCA Varacoustic. A slight adjustment permits a choice of directional characteristics for every situation. Rubber-cushioned to eliminate shocks, capable of withstanding frequent handling, this unit is ideal for indoor public address and sound reinforcing installations. May be used outdoors when there is no wind or rain. For use with mike stands of 1/2" pipe thread. Adaptor furnished for 5/8"-27 pipe thread.

*High Impedance . . . Frequency Range 50-10,000 Cycles*

### MI-12005 Announce Microphone

SUPERB ACOUSTICALLY—RUGGED YET SMALL

Only 1 1/2" wide, the microphone combines qualities rarely found in one unit: it reproduces voice and music remarkably well; it has exceptional life properties; it can be used with equal effect both indoors and out; it's light in weight and modernly styled. Up to the minute technical knowledge was utilized to make the MI-12005 extremely efficient in a wide variety of commercial industrial applications. Pressure operated, this microphone employs a thin-moulded but durable plastic diaphragm as one of its basic components. A hinged cover on the shank conceals the cable and the connector to make the entire unit easily manageable. This microphone is shock mounted. A swivel arrangement permits tilting the head forward or backward through an arc of approximately 45 degrees of each side of the vertical position. Mounting: 5/8"-27 Fixture Threaded.

*Non-Directional and Semi-Directional . . . High Impedance . . . Frequency Response— 75 to 9000 Cycles*



MI-12005

**TYPE 77-d Polydirectional Microphone****BROADCAST QUALITY—POLYDIRECTIONAL**

This is the microphone to select for exacting tasks. It's engineered for true versatility, for high quality performance. Every variety of directional characteristic can be obtained by a screw driver adjustment. Hum pick-up is greatly minimized by a shielded output transformer. Three-position "voice-music" switch allows selection of best operating characteristic for either function. It's shock mounted to reduce effect of building vibrations. The polydirectional microphone has been a favorite in broadcast studios the nation over for years. Wherever exceptional quality is a requirement, look to the RCA 77-d. For use with mike stand of  $\frac{1}{2}$ " pipe thread.

*High Impedance . . . Frequency Response 30-15,000 Cycles*



TYPE 77-d

**MI-12017 Aerodynamic Microphone****CLOSE-TALKING SPECIALIST**

Lightweight, small, streamlined and thus physically suitable for close talking, this microphone also has the acoustical characteristics necessary for excellent close-up announce work. Its rising high frequency response gives it unusual intelligibility. So faithfully will it perform its role in fine reproduction, that it may be used for music solos when the accompaniment is picked up by a velocity type of microphone. May be mounted on floor stand, desk stand, or outfitted with a handle. It's furnished with  $\frac{1}{8}$ " female pipe thread and requires an MI-6229 Adaptor to fit a  $\frac{3}{8}$ "-27 thread stand.

*Non-Directional . . . High Impedance . . . Frequency Range 70-9,000 Cycles*

MI-12017

**TYPE BK-4a Starmaker Ribbon Pressure Microphone****LETS THE PERFORMER STAR**

Here's the slender favorite of performers and entertainers everywhere. Its light weight, its narrow tubular shape keep the Starmaker unobtrusive—permits the personality of the microphone user to dominate. Ideal in night clubs, at banquets, at conventions, and, of course, in TV studios where it first attained its fame.

Translates voice and music with great naturalness. May be "carried around." Immune to wide variations in temperature and humidity. Insensitive to wind blasts. For use with mike stands of  $\frac{1}{2}$ " pipe thread. Adaptor furnished for  $\frac{3}{8}$ "-27 pipe thread.

*Low Impedance . . . Frequency Range—70 to 15,000 Cycles . . . Non-Directional*

TYPE BK-4a

**MI-12020 High Fidelity Dynamic Microphone****WIDE RANGE FREQUENCY RESPONSE**

Equally effective for individual or group pick-ups . . . offering realistic reproduction of voice and music, this microphone may be employed for recording, public address, in show business, for radio or TV. A ball swivel coupler permits quick change from stand to hand operation. May be used indoors or outdoors. For  $\frac{3}{8}$ "-27 fixture thread.

*Frequency Response—70-12,000 Cycles . . .*

*Non-Directional . . . Low Impedance*

MI-12020





MI-12021

**MI-12021  
Super-Dynamic Microphone**

**EFFICIENT EVEN IN NOISY AREAS**

This microphone has been especially well accepted in shops, power plants, steel mills, construction operations and other high noise level areas. Built to withstand abnormal climate-conditions and rough handling. For  $\frac{5}{8}$ "-27 fixture thread.

*Frequency Response—70-10,000 Cycles  
... Low Impedance ... Non-Directional*

**MI-12022 Dynamic Microphone**

**DEPENDABLE, VERSATILE, LOW COST**

For virtually any commercial sound application, both indoors and outdoors, where the need is for good articulation. A favorite in installations limited by a modest budget. May be mounted on a desk or a floor stand. For  $\frac{5}{8}$ "-27 fixture thread.

*Frequency Response—80-7,500 Cycles  
... Low Impedance ... Non-Directional*



MI-12022

## MICROPHONE **F**LOOR AND **D**ESK STANDS

A complete line of bases, desk stands, and floor stands is available through RCA Sound Products Distributors. Examples from RCA's broad selection are pictured here.

**MI-6208 Three Section Microphone Stand**

May be used in three different heights. Is easily disassembled into short sections. It's portable. The 10" base provides a sturdy footing with a minimum of weight and size. The top section has a clutch adjusted inner column with a  $\frac{5}{8}$ "-27 thread.

**MI-4068-d Microphone Floor Stand**

Attractive modern appearance. Massive 12" base offers a sturdy footing for the heaviest microphone. Large grip-type clutch securely holds sturdy 26" inner column. Adjustable from 31 $\frac{1}{4}$ " to 58". Thread:  $\frac{5}{8}$ "-27.

**MI-4096-a Announce Stand**

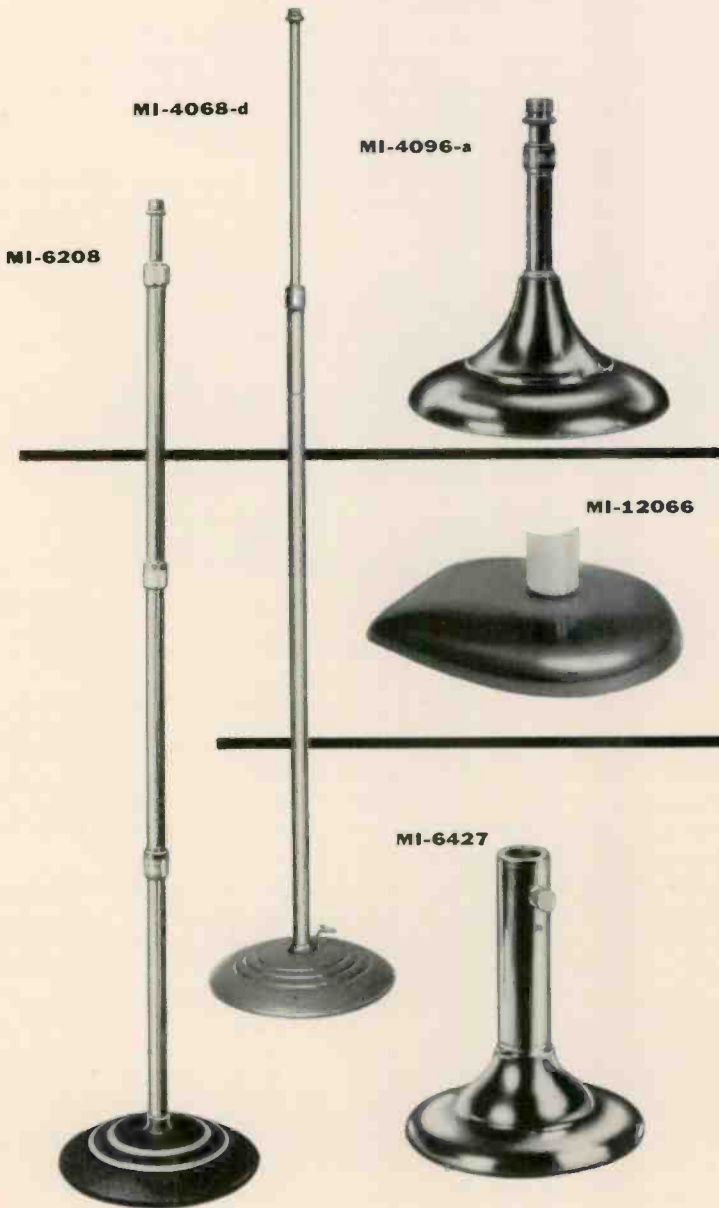
Adjustable from 9" to 12 $\frac{1}{2}$ ". Ideal for use on a desk or table. It features a 7 $\frac{1}{2}$ " base which covers a heavy cast iron weight. Entire unit of polished chrome. The clutch adjusted stem assembly has a  $\frac{5}{8}$ "-27 standard thread.

**MI-12066 Microphone Base, Type KS-5a**

Designed primarily for handle type microphones. It is of die cast metal 4 $\frac{1}{8}$ " long, 5 $\frac{3}{8}$ " wide and 1" high and is attractively finished in dark umber gray metalustre. The microphone may be held rigidly in position by  $\frac{5}{8}$ "-27 thread bolt. The bottom is rubber cushioned giving adequate protection to any finely finished surface.

**MI-6427 Pushmike Stand**

Features a built-in microphone switch suitable for use with most RCA microphones. The removable switch is of the D.P.D.T. long leaf anti-capacity type which permits either open or closed circuit operation for "push-to-talk" or "lock-in-talk" operation. The extra set of contacts may be used for d-c relay operation. The stand is 7 $\frac{3}{4}$ " high with 5 $\frac{3}{4}$ " base and is attractively finished in polished chromium. The microphone mounting is for a  $\frac{5}{8}$ "-27 male or female thread.







# A MPLIFIERS

Power Amplifiers from 6 watts to 70 watts output; Line amplifiers . . . Pre-amplifiers . . . AM/FM Radio Tuner . . . AVC Compressor



MI-12238-b

In great favor with users of sound equipment, RCA amplifiers have attained their reputation because they are known to employ advanced circuitry, to be rated conservatively in power output, to perform with excellent fidelity and to be limited to minimum distortion.

### MI-12238-b 6-Watt Amplifier (Less Cover)

A LOW-COST, DEPENDABLE AMPLIFIER OF EXCELLENT FREQUENCY RESPONSE

Ideal for use in small public address systems, paging, store window demonstrations, auctions, and similar music and speech applications. For maximum economy and versatility this 6-watt, 4-tube amplifier leads its class.

Input: high impedance microphone, high or low impedance phonograph. Output accommodates wide range of speaker impedances. Tube complement: 2 RCA 6J7, 1 RCA 6L6 or 6L6GT, 1 RCA 5Y3GT. Dimensions: L 11½" x D 7¾" x H 7½". Net Weight: 11½ pounds.

*The Small Amplifier With The Most Value-Per-Dollar Features*



MI-12295

### MI-12295 15-Watt De Luxe Amplifier (High Impedance)\* SUPERB, MEDIUM POWER, HIGH GAIN UNIT

Here is modern styling at its best! This outstanding public address amplifier offers unparalleled value for use in small auditoriums, dance halls, restaurants and taverns, amusement parks, small churches, schools, and outdoor applications for small gatherings.

Two high impedance microphone inputs (100,000 ohms), one high gain high impedance input (600,000 ohms), and one moderate gain high impedance input (500,000 ohms). Output: 4, 8, 15, 60, 250 ohms. Tube complement: 3 RCA 6J7, 1 RCA 6SN7, 2 RCA 6V6GT, 1 RCA 5Y3GT. (Order separately as MI-12268.) Dimensions: L 16" x D 11" x H 8". Finished in satin chrome and black.

\* Also available with two Low Impedance Microphone Inputs as MI-12299.

*The Best Buy for Public Address Installations of Moderate Size*



MI-12188-a

### MI-12188-a 70-Watt Power Amplifier

THE PERFECT CHOICE FOR LARGE SOUND SYSTEM INSTALLATIONS

This precision, bridging type, class AB-1 power amplifier has been designed for dependable operation in high power industrial and institutional sound systems. Its wide frequency range (20 to 20,000 cycles) and low distortion characteristics make it an ideal amplifier for wide-range reproduction of music.

Required input voltage: 3.3 @ 1000 cycles. Input impedance: 47,000 ohms. Output impedance: 4, 8, 16, 72, and 143 ohms. Tube complement: 1 RCA 6SL7GT, 4 RCA 807, 2 RCA OD3, 1 RCA 5R4GY. (Order separately as MI-12281.) Dimensions: L 16-3/16" x D 10¾" x H 8¾". Net Weight: 39 pounds.

*May Be Shelf or Rack Mounted—May Be Used as Main Equipment or as Zone Amplifier*

### MI-4117-c Preamplifier

A COMPACT, HIGH GAIN, LOW NOISE UNIT OF EXCELLENT FREQUENCY RESPONSE

This amplifier may be used as a voltage amplifier for microphones, phonographs, etc., with output of two or more amplifiers connected in parallel and fed into a master mixing amplifier MI-4118 for multi-pickup into a single channel. The output may also be fed into the input of several master mixing amplifiers for multi-channel operation. The volume control may be located at a remote point, thus making the amplifier suitable for remote control.

Input: 250 ohm balanced input source impedance. Input level: -30 dbm to -22 dbm. Output load impedance 200,000 ohms minimum. Frequency range: 30 to 11,000 cycles. Tube complement: 1 RCA 1612. (May be ordered separately.) External power supply of 6.3 volts a-c or d-c, 0.3 amp., 275-320 V., 1.1 ma required.

*Useful in Any Application Requiring Low Impedance Microphone Input . . . Also Available For High Impedance Microphone Inputs and Master Mixing as MI-4118-C*

### MI-12296 30-Watt De Luxe Amplifier

A POPULAR P. A. SYSTEM AMPLIFIER FOR MEDIUM POWER APPLICATIONS

The ideal public address amplifier for use in night clubs, retail stores, garages, parking lots, playgrounds, and a number of other diversified applications.

Inputs: Three high impedance microphones (100,000 ohms) and one phonograph (500,000 ohms). Output impedances: 4, 8, 15, 60, 250 ohms. Tube complement: 4 RCA 6J7, 1 RCA 6SN7GT, 4 RCA 6V6GT/G, 1 RCA 5U4G. (Order separately as MI-12269.) Dimensions: L 19½" x D 10¼" x H 8". Net Weight: 27 pounds. Handsomely finished in satin chrome and black. One or more microphone inputs may be converted to low impedance by ordering and installing MI-12377 Input Transformer for each input.

*Modern in Appearance—Simple in Operation—Tops in Performance*

### MI-12293 50-Watt De Luxe Amplifier

SELF-CONTAINED UNIT OF HIGH POWER AND TOP QUALITY MODERN DESIGN

The outstanding 50-watt public address amplifier is completely self-contained, with 12 output zoning switches. It is ideally suited for use in voice and music distribution systems in schools, indus-

trial plants, auditoriums, outdoor stadiums, and other similar applications.

Inputs: Four high impedance microphones (100,000 ohms); 1 high gain, high impedance phonograph (600,000 ohms); 1 low gain, high impedance phonograph (500,000 ohms). Output impedances: 4, 8, 15, 60, 250 ohms. Tube complement: 5 RCA 6J7, 2 RCA 6J5, 4 RCA 807, 2 RCA 5U4G. Dimensions: L 33" x D 11" x H 9½". (Ordered separately as MI-12277.) Net Weight: 58 pounds. Finished in handsome satin chrome and black. One or more microphone inputs may be converted to low impedance by ordering and installing MI-12377 Input Transformer for each input.

*Streamlined, Powerful and Efficient—The Final Answer to Small Distribution System Amplifier Problems*

### MI-12242 Remote Preamplifier

FOR PORTABLE USE OR SHELF MOUNTING—SOLVES THE PROBLEM OF REMOTE PICK-UP

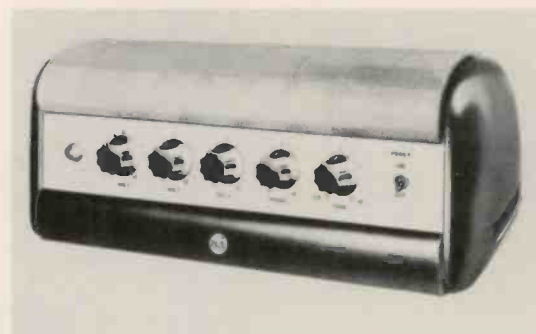
Microphones may be used at considerable distance from the main amplifier equipment. For example, a large assembly of people may be in an auditorium, park, church, school, railroad or airline waiting room, mill, factory, or the like, and a program or occurrence of interest is taking place in another building or remote location. With the aid of this remote pre-amplifier, the program may be fed back to any of the above places that is equipped for sound distribution.

Input: 3-prong female plug. Source impedance: 250/500 ohms. Input level: -67 to -35 dbm. Gain 77db. Output impedance: 250/500 ohms. Tube complement: 3 RCA 6J7, 1 RCA 5Y3GT. (Order separately as MI-12279.) Dimensions: L 10" x D 6" x H 6¾". Net Weight: 13 pounds. Finished in light gray.

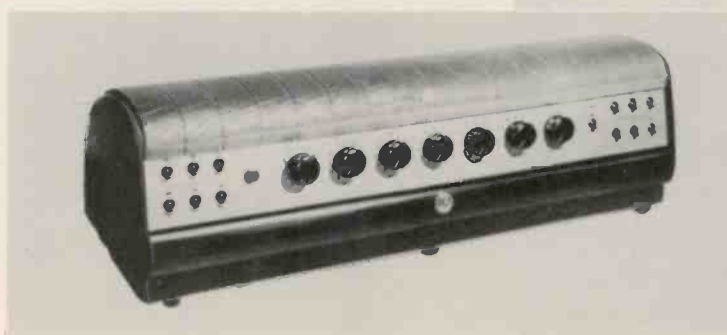
*Two or More of These Amplifiers May Be Used, Thus Providing Additional Microphone Locations*



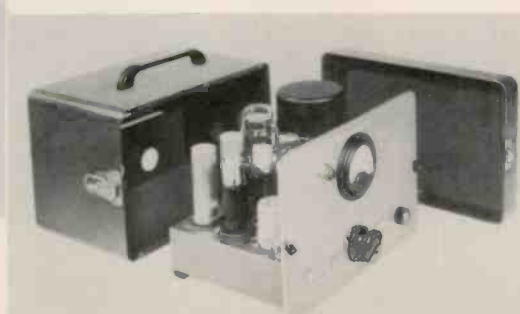
MI-4117-c



MI-12296

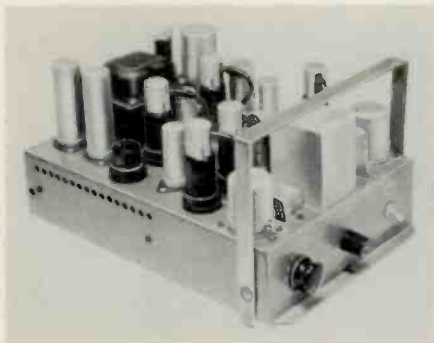


MI-12293



MI-12242





MI-12244

**MI-12244 AVC Compressor**

**AUTOMATICALLY MAINTAINS AMPLIFIER  
OUTPUT LEVEL**

This automatic volume control compressor amplifier has been designed to function as a level setting amplifier and will maintain a pre-set output level for varying input; as, for example, when a speaker moves away or comes closer to the microphone. It is thus ideal for use in churches, banquet and music halls and the like. It also serves a useful purpose in areas where the background noise level is relatively high.

Designed for "plug-in" mounting. Has built in power supply. Input source impedance: 250 ohms. Output impedance: 250 ohms. Tube complement: 3 RCA 6K7, 2 RCA 6J7, 8 RCA 6H6, 1 RCA 5Y3-GT. Dimensions: W 7 $\frac{1}{8}$ " x H 5 $\frac{1}{4}$ " x D 11 $\frac{1}{4}$ ". Net Weight: 10 $\frac{1}{4}$  pounds.

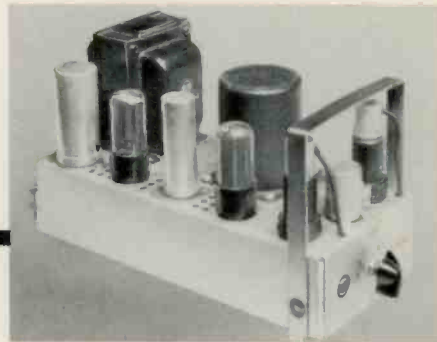
*An Indispensable Adjunct to The Better Sound System*

**MI-12160-a Line Amplifier**

**A HIGH QUALITY MULTI-PURPOSE AMPLIFIER**

Here is a quality amplifier with many practical applications: It may be used as a line amplifier for supplying zero level to a telephone line; a master mixer for up to 6 pre-amplifiers; a driver amplifier for up to 200 power amplifiers; a monitor amplifier supplying up to 2 watts; a bridging amplifier for a low impedance line; or a power supply for one or two external preamplifiers. It is ideal for public address, music, sound reinforcing, studio and paging systems.

Source impedance: 125-500/600 ohms. Load impedance: 15, 125, 500/600 ohms. Gain 75 db.



MI-12160-a

Frequency response: flat within 4 db. from 30 to 15,000 cycles. Tube complement: 2 RCA 6J7, 1 RCA 6V6GT, 1 RCA 5Y3GT. Power supply: 105/125 volts, 50/60 cycles. Dimensions: W 5 $\frac{1}{8}$ " x D 13" x H 6 $\frac{3}{8}$ ". Net Weight: 11 $\frac{1}{4}$  pounds. Originally designed for plug-in shelf mounting. Connections are made through two 10-prong plugs at the rear of the amplifier.

*An Ideal Amplifier for Wide Range Reproduction*

**MI-6787-a AM/FM Radio Tuner**

**TOP-NOTCH UNIT FOR SCHOOLS, HOTEL AND  
INDUSTRIAL APPLICATIONS**

This highly sensitive and highly selective 10-tube AM/FM tuner is designed for use as a central receiver to feed a sound distribution system. High fidelity design makes it adaptable to custom built music systems. Panels and shelves are available for mounting to unit in 19" racks and RCA Unit-Built cabinets.

A 10-tube AM/FM radio tuner designed to operate on AM signals 535 to 1620 kilocycle (standard broadcast) band and FM signals in the 88 to 108 megacycle band. Features "no drift" automatic frequency control on FM band. Antenna: RTMA Standard (for AM) and 300 ohms dipole (for FM). Frequency response: 50 to 15,000 cycles. Two 500,000 ohm audio inputs are provided for other program sources. Output impedance 500/600 ohms. ungrounded. Tube complement: 3 RCA 6BA6, 1 RCA 6JC, 1 RCA 6AL5, 3 RCA 6AU6, 1 RCA 5Y3-GT. Power source: 105-125 volts, 60 cycles, a.c. Dimensions: L 15 $\frac{1}{8}$ " x D 9" x H 7". Net Weight: 13 $\frac{1}{2}$  pounds.

*A Quality Radio, Complete with Power Supply,  
Ready to Install*

MI-6787-a







# SPEAKERS

Unique Accordion Edge Cone . . .  
Corrugated Cone . . . Straight Edge Cone ;  
Variety of sizes; Alnico Permanent  
Magnets; For speech and music

The buyer of RCA Sound Products speakers benefits from the research and engineering which RCA has conducted for years in developing the finest motion picture theatre speaker systems; speakers for radios, record players and TV; speakers for 16mm sound projection equipment; speakers for broadcast studio equipment. This experience, together with the careful selection of materials and insistence upon strict manufacturing controls, assures performance that is invariably pleasing.

everywhere acclaim the fine performance it makes possible.

Recommended with RCA wall baffles MI-13276, MI-12416, MI-6388 and RCA ceiling baffles MI-13254 (flush mounting), MI-13258 (surface mounting). May be installed in other totally enclosed baffles of 1000 cubic inches or more. Ideally suited for use in multiples of two to four in the same enclosure.

*Smooth Frequency Response—70-7,000 Cycles . . .  
Large Permanent Magnet of Alnico V Metal*

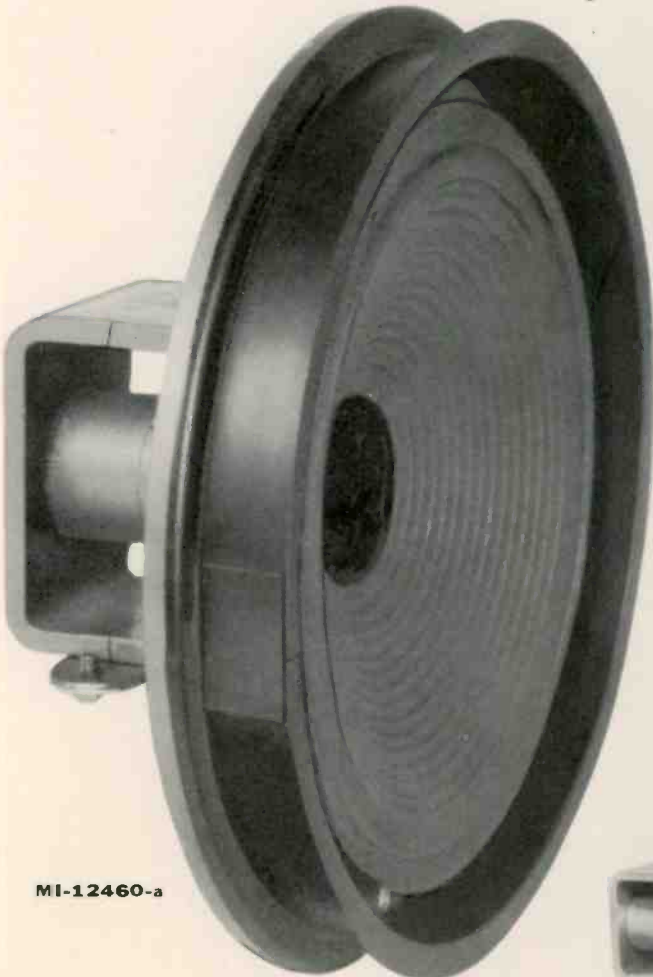
### MI-12454-a Eight-Inch "Wide-Range" Speaker

#### VERSATILE INDOOR SOUND REPRODUCER

Combines rugged construction, good power handling capacity and an unusually wide range of frequency response to give it applicability in virtually all indoor sound distribution tasks. Especially suited for industrial use where a unit of moderate dimension is required. Plan on this speaker, too, for hospital and hotel installations. Available with transformer as MI-12454.

Acoustically balanced sound quality obtainable when speaker is mounted in a normal size wall baffle such as RCA's MI-6104, MI-4422 and MI-6296 or in ceiling baffles of the type of RCA's MI-13255 (flush mounting) and MI-13259 (surface mounting).

*Frequency Response 70-10,000 Cycles . . . Large Permanent Magnet of Alnico V Metal*



MI-12460-a



MI-12454-a

### MI-12460-a Seven-inch Accordion Edge Cone Speaker

#### EXCEPTIONAL CLARITY IN A COMPACT UNIT

Achieves reproduction of high intelligibility . . . sound that's crisp, vivid . . . pleasing enough to be part of a home "hi-fi" system. Especially suitable, too, for classrooms, small auditoriums, clubrooms, hospitals, hotels, offices and other areas of moderate noise level. (Available with transformer as MI-12435-A.)

The accordion edge cone is a unique RCA design for attaining lower resonant frequency than is afforded by conventional types. Sound specialists

**MI-12418 Twelve-inch "Industrial" Speaker****HANDLES MUSIC AND SPEECH EQUALLY WELL**

A favorite music and speech reproducer in plants throughout the country for fifteen years. Its power handling capacity, its high sensitivity and its smooth frequency response over a broad range make it ideal in areas where requirement is for rising above moderate noise with intelligible sound. The right speaker, too, for bustling department and variety stores, super markets, bowling alleys, etc.

Achieves excellent sound balance in average size wall baffle with open back. Especially recommended with RCA wall baffles MI-6106, MI-13253, MI-4420 and RCA Ceiling baffles MI-13257 (flush mounting) and MI-13261 (surface mounting).

*Power Handling Capacity—15 Watts Peaks Complex Signal . . . Frequency Response 50 to 8500 Cycles—Corrugated Cone*

**MI-6333-d Ten-Inch "Movie-Voice" Speaker****COMBINES HIGH POWER CAPACITY WITH WIDE FREQUENCY RANGE**

Designed primarily for 16mm sound motion picture equipment, RCA customers began using it for a wide variety of applications and have come to depend upon it as one of the most versatile and dependable speakers available. Its power handling capacity, its broad frequency range, and its rugged construction have made it the favorite it is. Performs well in any 12-inch baffle equipped with MI-13245-A adaptor, but is especially recommended with the following RCA wall-type baffles:

MI-6106, MI-13253, MI-4420 (all of which, also, require an MI-13245-A). The speaker may be used as is in RCA's beautifully designed console baffle MI-12448. For special application, the RCA ceiling baffles, MI-13256 (flush mounting) and MI-13260 (surface mounting), may be used.

*One Piece Corrugated Cone . . . Frequency Response—60 to 8500 Cycles . . . Power Handling Capacity—25 Watts*

**MI-6269-a Ten-Inch Accordion Edge Cone Speaker****UNUSUAL LOW FREQUENCY RESPONSE**

If the need is for a single speaker "high fidelity" outfit, this is one of the finest for the purpose on the market. It achieves a balance between the "highs" and the "lows" that isn't normally found in any cone type speaker. For reproduction of music, especially where the low end characteristic is desirable in such situations as night clubs, restaurants, bars, the MI-6269-A is ideal. The accordion edge cone is a unique RCA development which results in a very low natural cone resonance with consequent improved low frequency response as well as low distortion. Sound specialists everywhere acclaim the accordion cone construction as superior to the more conventional types.

Recommended with RCA Console Baffle MI-12448 and MI-12448-A, it may be used effectively, too, in a reflexed type of enclosure with a minimum cubic content of 5,000 cubic inches.

*Frequency Response—30 to 7000 Cycles . . . Re-Entrant Type Cone Rim Support*



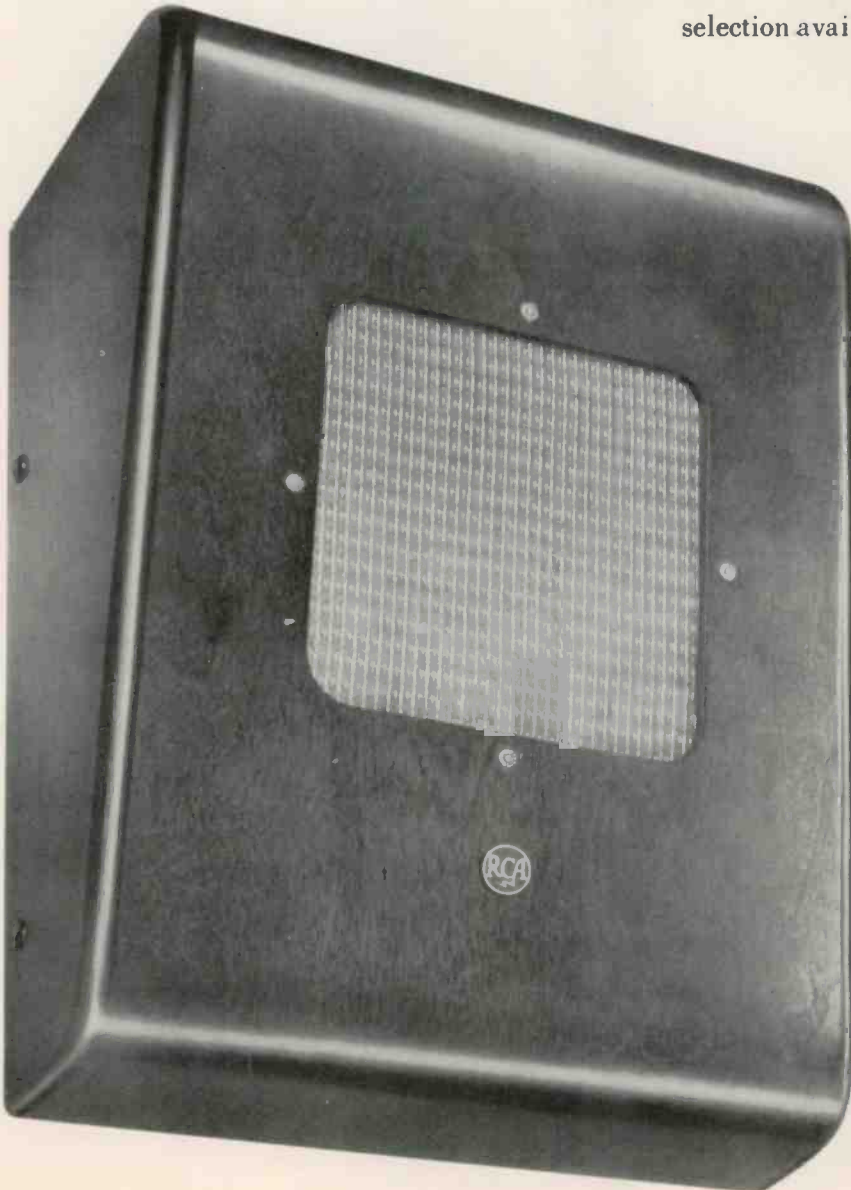


# B AFFLES

Wall Mounted . . . Ceiling Mounted . . .  
Consoles; Wood . . . Plastic . . . Metal

The critical elements in baffle design are a knowledge of acoustics and of styling. In both of these RCA is preeminent through its long experience in television and radio cabinetry.

The baffles illustrated here are a portion of the extensive selection available for every requirement.



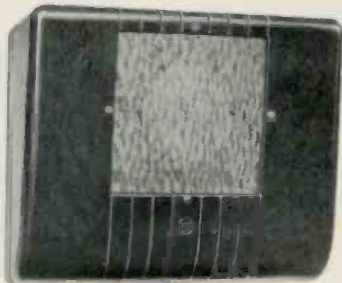
### MI-13276 Speaker Housing

COMPLETELY ENCLOSED SOUND CAVITY

Designed especially to match the famous RCA Seven-Inch accordion edge cone speaker, this housing provides exceptional tone quality with full low frequency response. Where the requirement is for exceptionally faithful sound reproduction, this speaker and housing combination should be considered. It has an acoustically treated interior, especially heavy wood sides, and curved edge construction to minimize the loss of low frequency sound energy from sound vibrations normally inherent in enclosed housings. A wood back cover seals the housing and forms a completely enclosed sound cabinet of approximately 900 cubic inches, providing the required acoustic loading for best sound response from the RCA accordion edge cone speaker, MI-12460-A.

*Height 17 $\frac{1}{8}$ " — Width 12 $\frac{3}{4}$ " . . . Two-Tone  
Woven Grille Cloth . . . Walnut Finish*

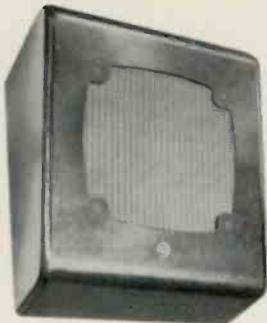
MI-6104



MI-6106



MI-13253



#### MI-6104 Moulded Bakelite Baffle for Eight-Inch Speaker

ATTRACTIVELY STYLED, NATURAL WALNUT FINISH

Here's a baffle that blends well with most architectural styles. It has been employed widely in such places as hotel rooms, restaurants, hospitals, school classrooms, large offices, etc. Every precaution has been taken to make these baffles highly functional as well as decorative. Heavy reinforced ribs moulded on the inner surface add strength and rigidity. Brackets complete with hardware are furnished to make mounting easy.

*Moulded and Finished...Two-Tone Grille Cloth... Width—15 $\frac{1}{4}$ " ; Height—12 $\frac{3}{4}$ " ; Maximum Depth—5 $\frac{5}{8}$ "*

#### MI-6106 Moulded Bakelite Baffle for Twelve-Inch Speaker

(Same as above except for size of speaker accommodated.)

*Width 17 $\frac{3}{4}$ " , Height 23" , Maximum Depth 8 $\frac{3}{6}$ "*

#### MI-13253 Wood Baffle for Twelve-Inch Speaker

HANDSOME ACOUSTIC FURNISHING

Ideal for hotels, offices, schools, stores and a variety of commercial installations. Finished in walnut and fitted with a two-tone woven plastic grille cloth, this baffle will blend well with most interiors. Precautions have been taken in its construction to insure durability—the top, front and bottom are of one-piece walnut finish veneer for extra rigidity. The sides are made of  $\frac{1}{2}$  inch solid wood. The curved edge construction also adds strength to this housing. To accommodate a ten-inch speaker, RCA MI-13245-A Adapter may be ordered.

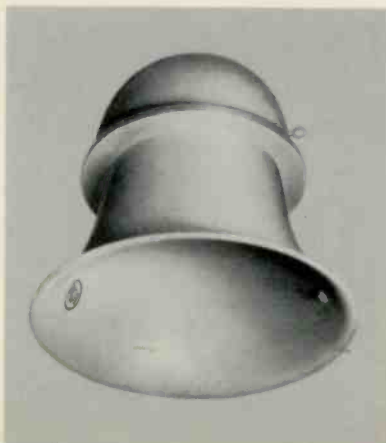
*Height 16 $\frac{1}{2}$ " ; Width 14" ; Maximum Depth 8 $\frac{1}{2}$ "*

#### MI-4420-a Directional Sound Projector

DESIGNED FOR TWELVE-INCH CONE TYPE SPEAKERS

Continued by popular demand. One of the oldest members of the RCA family of baffles. Our customers insist that for certain partially sheltered locations, such as loading platforms, this baffle is tops. It may be used outdoors, too, with speakers which have waterproof cones. The bell is made of heavy gauge spun aluminum, and the back cover is of sturdy drawn steel which has been acoustically treated. A wire screen is provided to protect the speaker cone. Available to accommodate eight-inch speaker—specify MI-4422-A.

*A Tested Sound Truck Unit—Good Music Reproducer*



MI-4420-a



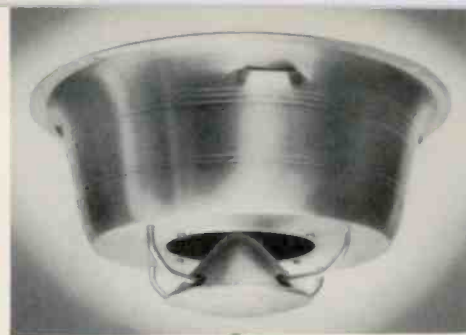
**MI-13258, 13259, 13260, 13261**

**Surface Mounting Ceiling Baffles**

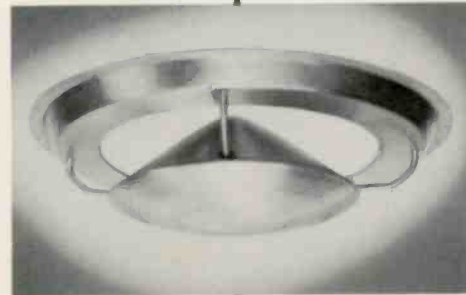
FOR INTERIORS WITH MODERN DECOR

Where the architectural style requires that the speaker housing be unobtrusive and blend with the lines of the interior, this unit, finished in satin aluminum, represents an ideal solution. It has been employed in modernly designed churches, club rooms, school auditoriums, hotels, exposition halls, department stores, cocktail lounges and other similar areas with a nominal ceiling height. A floating cone assures diffusion of low level sound. The enclosure sizes permit wide range reproduction. MI-13258 for the 7" accordion cone Speaker, MI-13259 for 8" Speaker, MI-13260 for 10" Speaker, MI-13261 for 12" Speaker. Overall diameter of MI-13258 and 13259 is 14 $\frac{1}{4}$ ". The depth of these units is 8 $\frac{3}{8}$ ". MI-13260 and 13261 have an overall diameter of 18 $\frac{3}{8}$ " and a depth of 9 $\frac{1}{4}$ ".

*Easily Installed on Existing Ceilings . . . May Be Painted On-the-job*



MI-13258



MI-13254

**MI-13254, 13255, 13256, 13257**

**Flush Mounting Ceiling Baffles**

The functions of these baffles are the same as described for the surface mounting units. MI-13254, 13255, 13256, 13257 are designed for low false ceilings and will accommodate 7", 8", 10" and 12" speakers respectively.

**MI-12448 Deluxe Console Baffle**

(Blond Natural Wood)

**MI-12448-a Deluxe Console Baffle**

(Walnut Finish)

BEAUTIFULLY DESIGNED CABINET FOR TWO SPEAKERS

For superior reproduction of live or transcribed music. A compact moderately priced unit. Widely used by schools, hotels, restaurants, clubs, etc.

Specially designed to accommodate RCA low frequency mechanism, MI-6333. Provision is also made for adding high frequency horn driver when needed. Special acoustically tested grille cloth serves as a decorative front to this modernly styled unit. Feet are stocked separately as MI-12449. The cabinet may be used without feet by inverting it and wall mounting it.

*Height 25"; Width 22"; Depth 12"*



MI-12448  
MI-12448-a



# D RIVER UNITS AND H ORNS

Variety Of Power Handling Capacities; For Indoors and Outdoors; For Music and Speech

Every effort has been made to offer sound equipment users units fashioned from the finest of materials, in the right sizes, in the correct forms and with the design features needed to handle all sound distribution problems.



### MI-6306-c, MI-6305-c, MI-6304-c, MI-6309-c HI-Efficiency Speaker Units

TOP-NOTCH PERFORMERS UNDER EVERY ADVERSITY

So ruggedly constructed . . . so thoroughly weather-proofed . . . so well guarded against corrosion are these excellent sound reproducing instruments that they have been accepted by the Navy, Signal Corps, Air Corps, and Coast Guard. Employed extensively, too, by railroads, power houses, steamship lines, stadia. Their wide range response, superior power handling capacity and efficiency enable them to yield intelligible sound under the most difficult conditions, both indoors and outdoors, even where high noise level is encountered.

MI's 6306-C and 6305-C have a Power Handling Rating of 35 watts and a Frequency Response of 80 to 10,000 cps. The 6306-C has a heavier magnet and consequently higher sensitivity than the 6305-C. The MI-6309-C has found its widest acceptance in situations requiring a unit that isn't too large and yet has the 25 watt power rating of this unit. The MI-6309-C will fit horns with  $\frac{7}{8}$ "-18 thread and has the added advantage of being equipped with an adaptor for larger size  $1\frac{7}{16}$ "-16 thread horn. MI-6304-C has a Power Handling Rating of 30 watts and a Frequency Response of 80 to 10,000 cps. Any horn with an RCA thread can accommodate the drivers.

*Alnico V Designs . . . Strong, Resilient, Impregnated Fabric Diaphragms . . . Non-Fatiguing Beryllium Copper Voice Coil Leads*



**MI-6366****MI-6366 3½ Ft. Re-Entrant Trumpet**

ALL-PURPOSE, ECONOMY UNIT

Where cost is a factor, yet the requirement is for a trumpet that will give satisfactory reproduction of music and excellent reproduction of speech, this unit should be given top priority. Consider it for camps, playgrounds, stadia, and other recreational areas. Completely adequate, too, for these indoor applications: arenas, skating rinks, basketball courts, industrial plants.

May be used with any RCA driver unit. Features easy-mounting bracket.

*Low Frequency Cutoff—160 Cycles . . . Excellent Sound Distribution*

**MI-6440 High Power Paging Speaker**

HANDLES 25 WATTS—PROVIDES SUPERIOR INTELLIGIBILITY

Here's a highly efficient unit for overcoming the noise of freight cars, airplanes, buses, etc. Whether outdoors or indoors, all types of terminals can be adequately served by this speaker. Moreover, its construction insures unusual intelligibility—it's so skillfully engineered it can be used for talk-back purposes. Use this speaker, also, in stadia, warehouses, and shipyards.

*True Exponential Flare—Completely Weatherproof . . . Frequency Response—250 to 11,000 Cycles*

**MI-6441****MI-6441 Miniature Re-Entrant Paging Speaker**

THE NOISE CONQUEROR

Overcomes the clatter, roar and hubbub found in such places as railroad stations, bus terminals, docks, on board ship, on locomotives, in railroad yards, etc. This "work horse" of a speaker has an operating power handling capacity of 25 watts and yet so ingeniously is it constructed—it weighs only 5¼ pounds. The MI-6317-d Speaker is weatherproof.

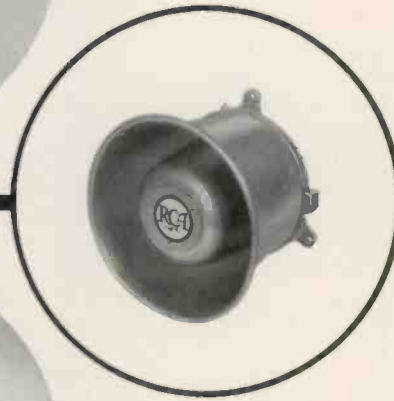
*Power Handling Rating—25 Watts . . . Frequency Response—450-11,000 Cycles*

**MI-6317-d Miniature Marine Re-Entrant Speaker**

IDEAL FOR NOMINALLY-POWERED INTERCOMMUNICATION SYSTEMS

Its high efficiency enables this speaker to furnish maximum acoustic output from nominally-powered amplifiers . . . to perform exceedingly well as a microphone in talk-back systems . . . to serve admirably in low-powered voice paging systems. Ruggedly constructed and weather-proofed, the MI-6441 has been used with excellent results in hundreds of bus and motor freight terminals, loading platforms, coal yards, garages, warehouses, etc. Shipped complete ready to install.

*Power Handling Rating—12 Watts . . . Frequency Response—350 to 15,000 Cycles . . . True Exponential Flare*

**MI-6317-d****MI-6440**

**MI-6302-a and 6303-a  
Double Re-entrant Trumpets**

DELUXE—DESIGNED FOR SPEECH AND MUSIC

These trumpets have been engineered to furnish vivid, life-like reproduction in the upper frequencies in order to make them highly effective for voice projection. At the same time, the low frequency cutoffs of these units make them capable of pleasing reproduction of music. The built-in directional characteristics permit the sound beam to be focused on the area requiring uniform coverage with minimum feed-back. The MI-6302-a is 3½ ft. in length. The MI-6303-a is 6 ft. long. Any RCA driver unit may be employed. In any of these situations, these trumpets will perform admirably: camps, carnivals, athletic fields, playgrounds, aboard ship, in shipyards, on sound trucks, in railroad yards, train sheds, and depots.

*Low Frequency Cutoff MI-6302-a—150 Cycles;  
MI-6303-a—85 Cycles . . . Horizontal and  
Vertical Mounting*

**MI-6395 Wide Angle Horn**

MINIMIZES ACOUSTICAL HANDICAPS

Compact, lightweight unit capable of distributing speech to large groups over a wide area. Low frequency cutoff eliminates boominess and thus lets voice reproduction remain crisp and vivid. Made of cast aluminum and designed to do away with metallic resonance. May be used with any of four RCA driver units (MI-6304-C, 6305-C, 6306-C and 6309-C) for excellent reproduction.

*Frequency Cutoff—400 Cycles . . . 120 Degree  
Horizontal Distribution Angle*

**MI-6311 Straight Axis Paging Trumpet**

LIGHT WEIGHT, COMPACT, EASY TO HANDLE  
AND INSTALL

Only 22 inches long with a bell diameter of 12½ inches, this paging horn is capable of delivering highly intelligible speech over a relatively wide area making it particularly suitable for such places as railroad train sheds, waiting rooms of railroad stations, airports, and other transportation depots. May be employed with any RCA driver mechanism. Usable both indoors and outdoors. Available in 4½ ft. length (MI-6341) and 6 ft. length (MI-6442). Larger sizes can be obtained in multiple throat models.

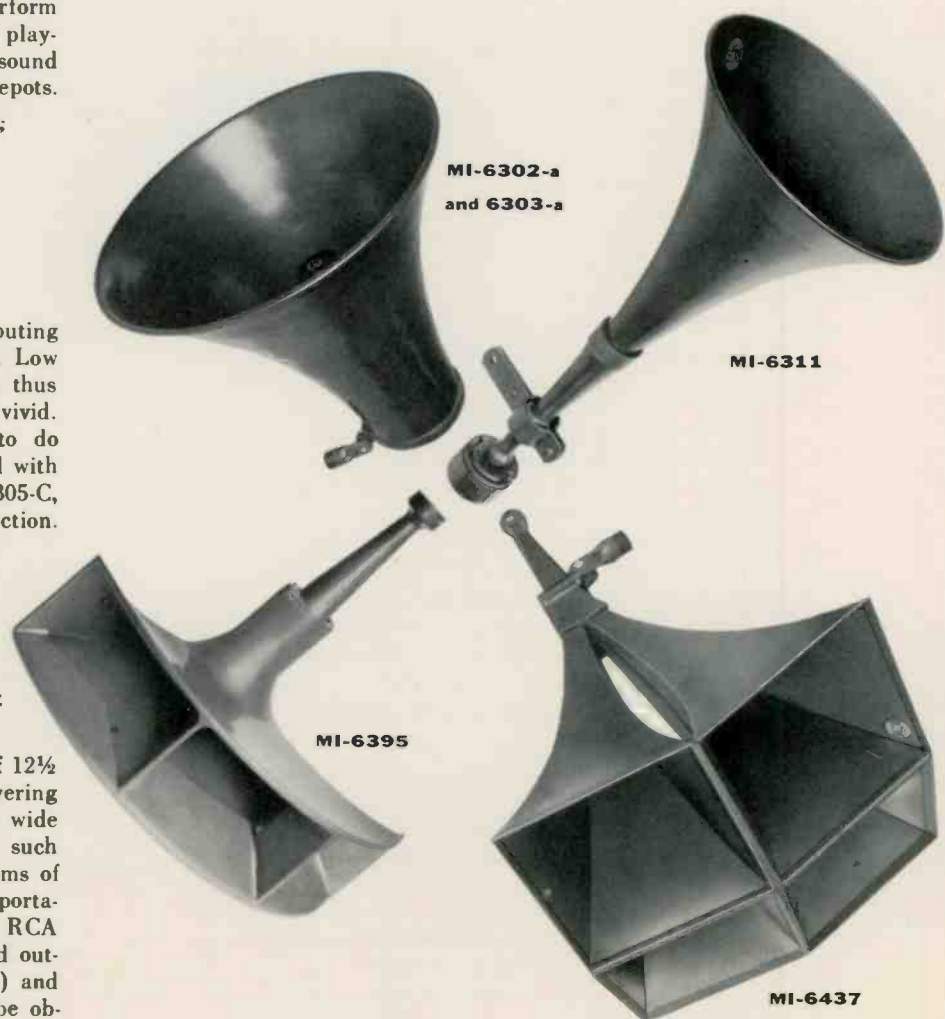
*Low Frequency Cutoff—250 Cycles . . . Designed for  
Outdoor and Indoor Use*

**MI-6437, 6438, 6439 Cellular Horns**

CONTROLLED HORIZONTAL DISTRIBUTION

A deluxe unit that has been considered indispensable for its ability to reproduce speech and its capacity to do a good job on music reproduction, too. To get distribution over a variety of wide angles, RCA offers three units basically the same except for the number of cells: MI-6437 2 x 2 cells; MI-6438 2 x 4 cells; MI-6439 2 x 6 cells. The horns are constructed out of durable metal which has been acoustically treated. They come equipped with adjustable mounting bracket and have provisions for suspension mounting. These horns have become virtually standard equipment in auditoriums, large meeting halls, churches, etc.

*Frequency Cutoff Low End: 175 Cycles . . . Cast  
Aluminum Exponential Throat*







# INTERCOMMUNICATION EQUIPMENT

A wide choice of equipment  
anticipating every intercom  
requirement

## RCA MODERNPHONE

*Telephone Type Intercom Systems With Central Power Supply  
(Either Battery or Rectifier)*

### RCA Modernphone Executive Master Systems

RCA Modernphone Executive Master Systems include one or more Executive Masters and a sufficient number of staff stations to afford adequate coverage. Executive Masters are equipped with loudspeaking switch-free talk-back facilities as well as an auxiliary handset, for use when privacy of conversation is desired.

When used in the RCA Modernphone Executive Master System, staff stations are equipped with a red button and a light, introduced to make full use of the advantages of the Master System.

These advantages are: the executive's conversation is completely secret and no one can break in or overhear; the executive receives visual indication of a calling staff member by means of a light signal behind the name of the member calling him on the Executive Master.

### RCA Modernphone Standard Systems

RCA Modernphone Standard Intercom System stations are of the telephone handset type. Each station can call any other station in the system by merely pressing the proper pushbutton. There can be as many conversations as there are pairs of instruments. There can be conferences—even several—going on at once.

### RCA Modern Minor

RCA Modern Minor is a low-cost system employing from two to six telephone-type intercom units. It operates from a 6-volt battery or rectifier. Modern Minors may be connected into and used with the RCA Modernphone.

## RCA INTERCOMS

*Electronically Operated Units with Press-To-Talk Key*

Useful in any intercom application where the "press-to-talk" key type of operation is desirable. Units are beautifully styled in modern streamline design and finished matte black with satin chrome grille. Available in both 6 and 12 button Master stations with or without earphone and also remote stations, which can originate as well as receive calls from the Master station. Power Supply 105/125V A.C. 50/60 Cycles 25 Watts.



THE EXECUTIVE MASTER



30 STATION INTERCOM  
Also available in 5-, 10-,  
and 15-line units.



FIVE BUTTON MODERN MINOR



RCA INTERCOM



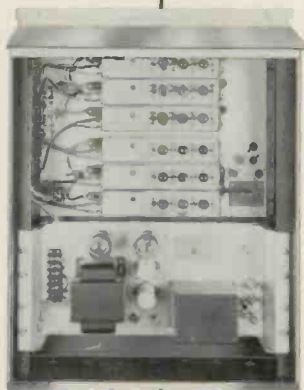
## TELEVISION ANTENAPLEX SYSTEM

# A

### RCA Custom Standard and Custom Deluxe Antenaplex Systems

The ideal systems for use in apartment houses, hotels, department stores, in fact, in any building where it is desired to operate a large number of television receivers from one central antenna system.

The RCA Television Antenaplex System consists of a tuned and oriented antenna for each transmitting channel to be received; the signal from each of the antennas is fed through its own individual amplifier to a distribution unit. From this point the signals are distributed throughout the building over coaxial cables to the various television receiver outlets. Up to 1000 receivers may be operated from a single antenna array. This system also provides frequency modulated (FM) reception and, if desired, reception from standard broadcast (AM) stations.

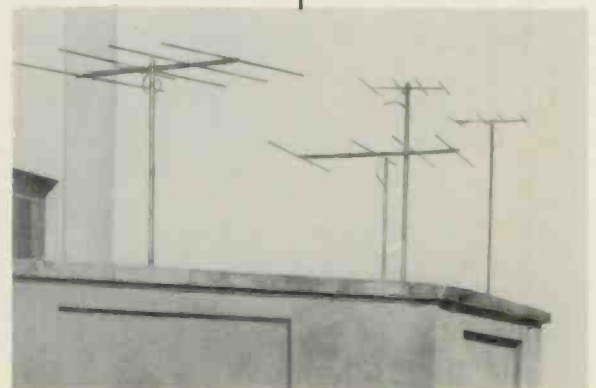
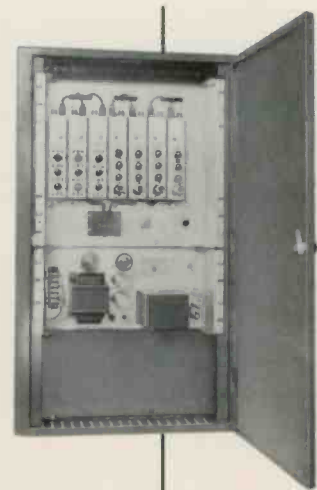


### RCA Community Antenaplex System

The RCA Community Antenaplex System eliminates television "blind spots," such as in mountain-encircled localities, as well as in those communities on flat terrain where the nearest broadcast stations are too remote to permit reception using individual roof-top antennas.

The new system consists of a master antenna assembly mounted on a tall mast on the highest nearby elevation; a network of coaxial cable, strung on utility poles from the antenna site throughout the areas to be served; amplifiers mounted on poles at fixed intervals to boost the strength of the signals; and lead off lines, terminating in wall or baseboard outlets in homes of set-owners subscribing to the service.

Local operators buy the equipment and offer the service for a fixed installation fee plus a monthly service charge. Thousands of television receivers may be operated from a distribution system of this type.





# UNIT-BUILT CABINETS AND RACKS

Modular construction simplifies  
sound system planning



## KEEPS SOUND FACILITIES IN STEP WITH PRESENT AND FUTURE NEEDS

With RCA unit-built sound equipment you select the combination of basic units for the sound services you require. So flexible is this equipment that other basic units can be added at any time in various combinations.

Unit construction is simplicity itself. A series of standardized frames and panels are matched to make up distinctively styled basic units. These matched units are so designed that it is possible to assemble them in any desired combination to fit the job. Also available in the unit-built line is a series of racks for housing the various units comprising a unit-built sound system. Systems of this type are likewise capable of expansion, even to the point where two or more racks are required to house the equipment. The extent of the area and the number of speakers such a system is capable of serving are virtually unlimited.

*When Expansion of Sound Facilities is Anticipated, buy RCA Unit-Built Sound Equipment. It is Modern . . . It is Modular . . . It is Smartly Styled and Efficient.*







**ENGINEERING PRODUCTS DEPARTMENT**

**Radio Corporation of America**

**CAMDEN, NEW JERSEY**