



COMMERCIAL
S O U N D
S Y S T E M S



Step Up To Electro-Voice®



Product Index Located Inside Back Cover

COMMERCIAL SOUND SYSTEM SOLUTIONS FROM ELECTRO-VOICE®

From schools and restaurants to shopping malls and the workplace —
clear, intelligible sound is becoming an increasingly important part of everyday life, and in places where it previously was given little or no consideration at all. Distributed sound systems are now being viewed as a **priority**, not an afterthought.

At Electro-Voice, we've recognized the expanded role of today's sound contractor, as well as the extra responsibilities associated with that new role. Specifying and installing a system is complex enough — deciding on the right products should be the **easy** part.

That's why EV has taken much of the guesswork and "fear factor" out of specifying a commercial sound installation. In the past, contractors have faced the daunting task of matching different components that would deliver the best end result, from input to output. That's changed, now, through EV's "**one-stop shopping**" approach. By offering a complete line of components that are specified and matched for optimal performance, EV customers and dealers can now easily assemble complete end-to-end systems that deliver proven results in any commercial sound application.

The combination of EV's **proven product reliability** and this total system approach is the perfect way to ensure that a message gets across quickly, clearly and under budget. But for a product line to be truly effective, it can never stop evolving. End-user needs don't stop changing, so why should a product's development?

EV is continually upgrading, testing, reevaluating and refining its products to ensure that they pass the most important test — meeting the needs of their users. It's a constant work-in-progress, combining factory expertise with customer feedback. The end result is a commercial sound product line that represents a **complete solution**, offering everything from the industry's most popular paging microphones to the renowned EP series line of ceiling speaker systems.

These products make up the **total system philosophy** from initial specification to final installation.

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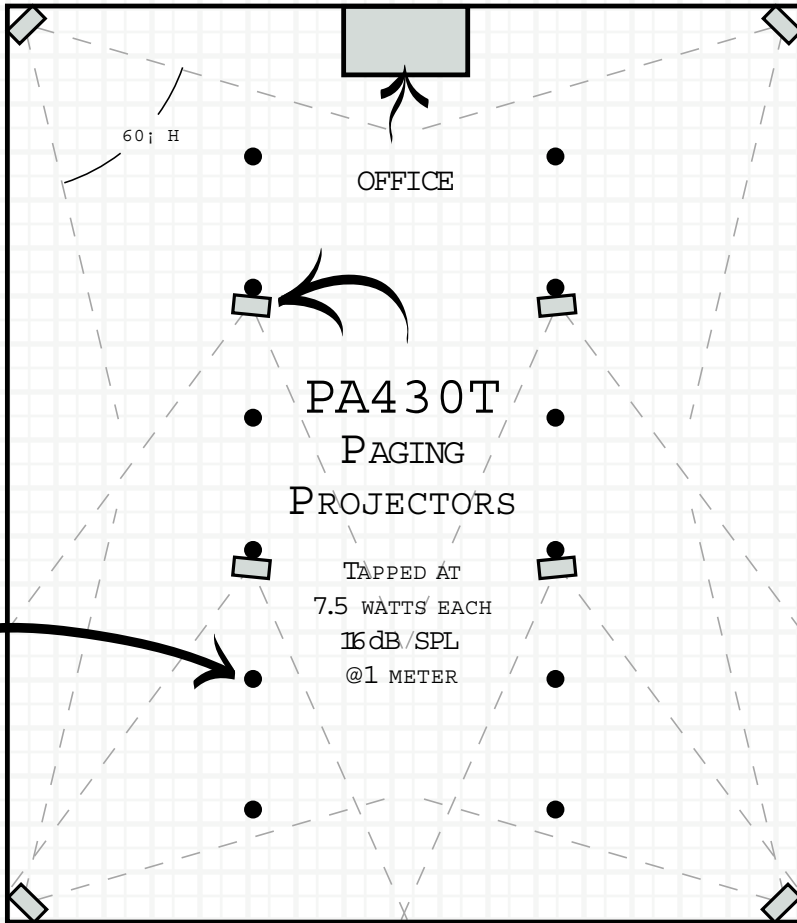
Compression Drivers

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Amplifiers

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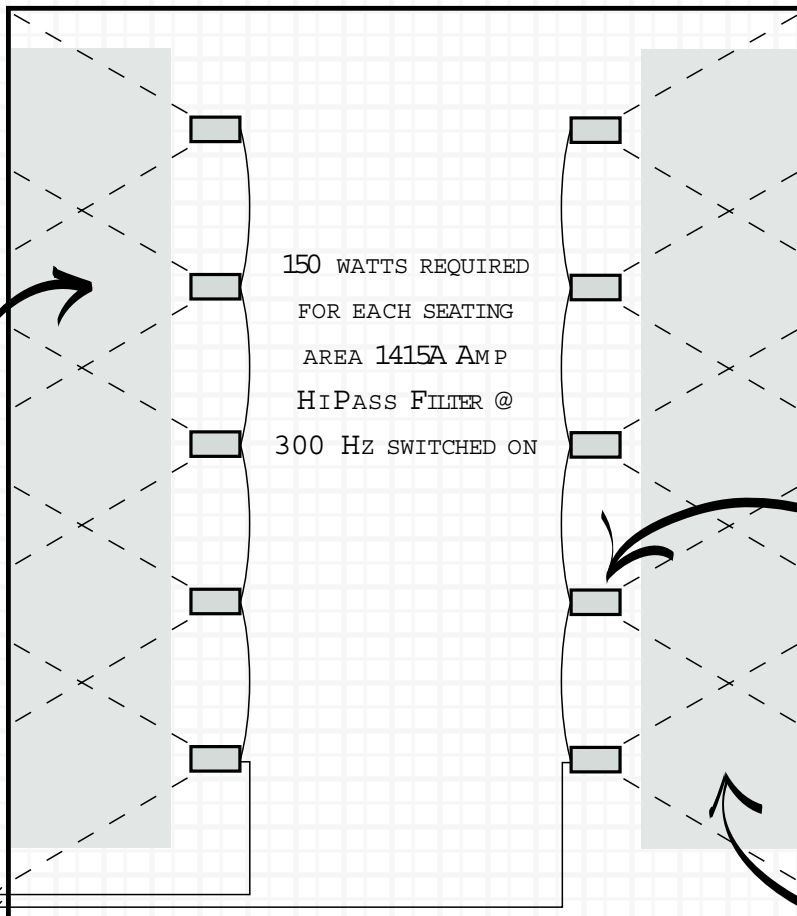
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WAREHOUSE
112' wide x 144' long
30' Approx. ceiling height
EQUIPMENT LIST:
1 MA-1005B Mixer Amplifier
9 US-602PL Noise Cancelling Grip to Talk Microphone
9 PA-403T Paging Projectors

PA430T PAGING PROJECTORS

TAPPED AT 15 WATTS EACH
19dB SPL @ 1 METER



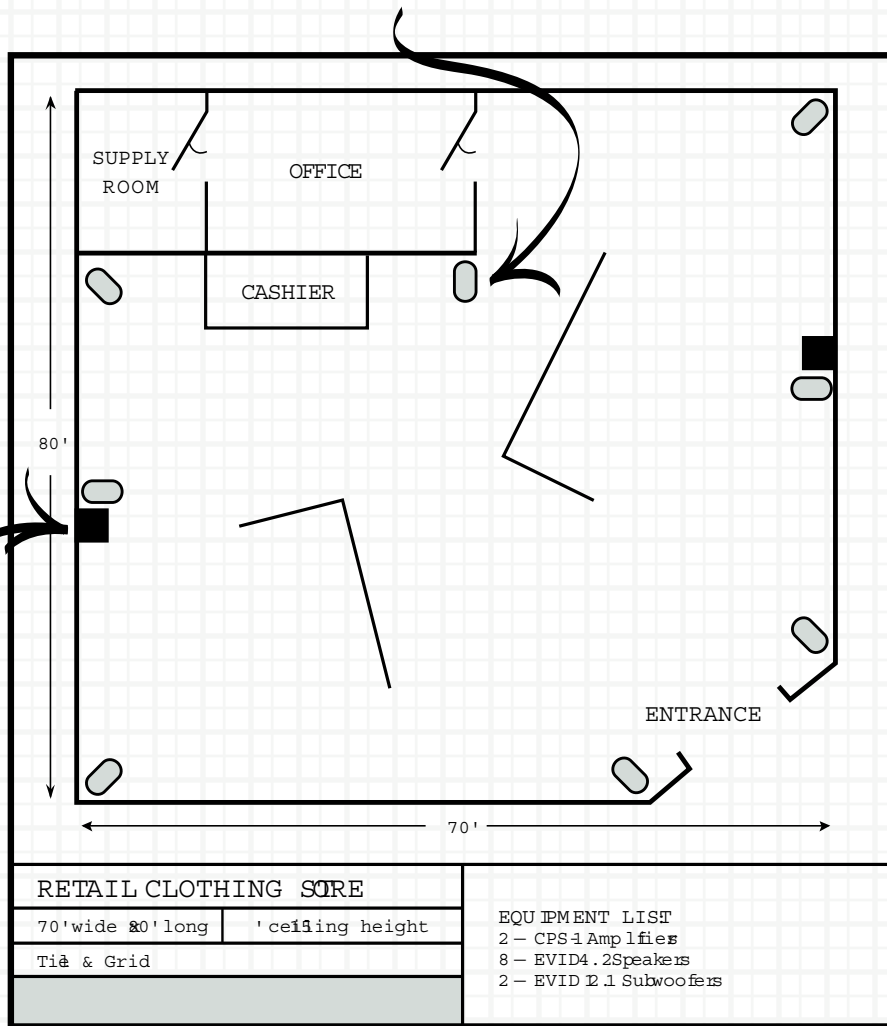
BASKETBALL GYMNASIUM
100' wide x 150' long
28' Approx. ceiling height
EQUIPMENT LIST:
10 CDP-848AT Paging Projectors
2 1415A Amplifiers
1 1700C Mixer
6 1781A Input Modules
5 1791 Connector Ass'y
1 1793 Dual Phono Connector
1 US-622L Noise Cancelling Press-to-talk Microphone

CDP848AT PAGING PROJECTORS

TAPPED AT 30 WATTS EACH MAX.
SPL 120dB AT 1METER

EVID 4.2 PREMIUM SPEAKERS

8 OHMS 97 DB AT 1METER



EVID 12.1 SUBWOOFERS

CALL EV TODAY! 1-800-685-6386

The EV advantage in distributed systems is in our “total system” approach. Each product is designed with the system in mind. As these examples illustrate, EV can offer a complete distributed sound solution from the paging microphone to the ceiling speaker. Each component is designed to work together resulting in easy to create system designs and trouble free operation. The key to our system approach is the variety of options available in every product category. From ceiling speakers and paging horns to power amplifiers, there are multiple models which enable the system designer to solve virtually any installation challenge.



The EVID™ concept means innovation. Let's face it, EVID is not just another speaker. From the unique, superior design to its innovative acoustical integrity, EVID delivers value, performance and ease-of-use to the contractor and end listener alike. In designing EVID, we evaluated all the current products available and asked contractors and typical end users, "What do you want?" End users wanted something attractive and superior sounding amidst a world of plain black boxes. Contractors wanted a comprehensive line that would provide flexible choices for easier system design and installations. We took your answers back to the speaker lab. And we listened. With EVID, we have achieved these goals. The result is a comprehensive background/foreground speaker line with the key characteristics installers need and users want.

EVID 6.2 Extended Range — High output speaker system



Comprised of dual 6-inch LF drivers and a 1-inch Ti/waveguide, the EVID 6.2 is perfect for applications that require exemplary audio and the capability to fill large areas with sound. Additionally, the flexible Strong-Arm-Mount™ (SAM™) system provides the versatility to accommodate any installation challenge. EV's unique 6-inch dual woofer design delivers crisp and clean program for the utmost in listening experience regardless of the location. Great for larger areas that demand higher SPL levels, the 6.2 delivers the outstanding, full bass output required for shopping malls, stadiums, airports, etc.

EVID 6.2t Identical to the EVID 6.2 but features a line transformer that offers selectable taps at 7.5 W, 15 W, 30 W and 60 W, allowing for easy connection to 70-volt or 100-volt speaker lines in distributed systems.

EVID 4.2 Compact — Full-range multi-use speaker system



Perfect for a variety of environments where full-range audio is needed but space is limited: restaurants, bars, bistros, department stores, and outdoor venues. Offering the bass response of a much larger speaker, dual 4-inch woofers make the 4.2 a phenomenal performer. The 1-inch waveguide coupled titanium tweeter delivers controlled clean mids and highs. Combine it with the 12.1 Subwoofer for an amazing listening experience. Full system protection and EV's unique Strong-Arm-Mount™ (SAM™) make the EVID 4.2 a solid choice in any environment.

EVID 4.2t Identical to the EVID 4.2 but features a line transformer that offers selectable taps at 3.75 W, 7.5 W, 15 W and 30 W, allowing for easy connection to 70-volt or 100-volt speaker lines in distributed systems.

EVID 3.2 Very compact — Full-range speaker system



Loaded with dual 3.5-inch LF drivers and a 3/4-inch Ti direct radiator, the EVID 3.2 produces sound that defies its small size. Its unobtrusive profile is ideal for background music and paging support in a wide variety of environments (e.g., offices, retail stores, restaurants, etc.) Coupled with the 12.1 Subwoofer, two to four EVID 3.2 speakers deliver amazing SPL levels for foreground music.

EVID 3.2t Identical to the EVID 3.2 but features a line transformer that offers a tap at 5 W (10 W for 100-volt systems), allowing for easy connection to 70-volt or 100-volt speaker lines in distributed systems.

Specifications	6.2/6.2t
Frequency Response ¹ (-10 dB)	62 Hz-20 kHz
Power Handling ²	300 watts
Sensitivity ³ 1 W @ 1 m	94 dB
Impedance	8 ohms
Max SPL	118 dB
Horz. Coverage ⁴	100°
Vertical Coverage ⁴	80°
LF Transducer	2 x 6" (150 mm)
HF Transducer	1" (25 mm)
Protection	Full System

Specifications (Cont.)	6.2/6.2t
Suspension Swing X Rotation	Multi-Axis 100° x 90°
Terminals	Spring
Enclosure Material	ABS (paintable)
"t" Version	70 V: 7.5 W
Wattage Taps	70 V/100 V: 15 W, 30 W, 60 W
Dimensions (H x W x D)	16.5" x 9" x 11.75" 419 x 228 x 298 mm
Net Weight	12 lb. (5.3 kg)

Dual input subwoofer EVID 12.1

To augment and extend the low frequency response of any full-range models, an attractive and powerful subwoofer completes the EVID line. The 12.1 provides an easy installation by incorporating dual voice coils to handle both channels of a stereo pair. In addition, the unit can power up to four satellites with its four crossed-over audio outputs on the back panel.



Mounting Brackets

AB-34/AB-64 The AB-34 and 64 series kits feature a 4 sided powder coated steel mounting assembly allowing for 4 EVID speakers to be mounted in an array to cover a 360 degree pattern. The mount offers additional flexibility in your EVID system designs. The AB-34 works with the EVID 3.2 series and can be used with a threaded rod for suspension from the ceiling. The AB-64 is used with the EVID 4.2 or 6.2 series speakers and can be used with a speaker stand tripod or hung from the ceiling using a threaded rod as shown. All necessary accessories and parts needed for use are included.

AB-32/AB-62 The AB-32 and AB-62 series kits feature a 2 sided powder coated steel mounting assembly allowing for 2 EVID speakers to be mounted in an array to cover a 180 degree pattern. The AB-32 works with the EVID 3.2 series and can be used with a threaded rod for suspension from the ceiling. The speakers can then be positioned on the bracket to cover a variety of patterns to best serve the installation requirements. The AB-62 allows the EVID 4.2 or 6.2 series speakers to be used with a speaker stand tripod or hung from the ceiling utilizing a threaded rod as shown. All necessary accessories and parts needed for use are included.



Tabletop Stands

HS-3 The HS-3 horizontal tabletop stand allows the EVID 3.2 or 4.2 to sit on a table, meter bridge, desk, bookshelf or other flat surface. Ideal for portable applications, the stands are made of steel for strength and durability and include rubber feet to protect surfaces. Sold in pairs.

VS Series The VS Series vertical tabletop stands are available for any EVID full range model. The stands allow the EVID speakers to be easily used on a table, desk, bookshelf or other flat surface in a vertical configuration. Ideal for portable applications, the stands are made of plastic coated steel for strength and durability. Sold in pairs.



Terminal Covers

TC Series The TC-4 and TC-6 terminal covers protect the input connections on the EVID speakers from the long-term effects of moisture. The covers are available for the EVID 4.2 and 6.2 series models. The covers easily attach to the rear input panel of the speaker and include a weatherproof cable connector.



Specifications	4.2/4.2t	3.2/3.2t	12.1
Frequency Response ¹ (-10 dB)	65 Hz-20 kHz	85 Hz-20 kHz	40 Hz-140 Hz
Power Handling ²	200 watts	150 watts	175/175 watts
Sensitivity ³ 1 W @ 1 m	89 dB	87 dB	100 dB
Impedance	8 ohms	8 ohms	8 ohms
Max SPL	113 dB	108 dB	122 dB
Horz. Coverage ⁴	120°	140°	—
Vertical Coverage ⁴	80°	100°	—
LF Transducer	2 x 4" (100 mm)	2 x 3.5" (90 mm)	12" (300 mm) <i>High excursion dual voice coil</i>
HF Transducer	1" (25 mm)	.75" (20 mm)	—
Protection	Full System	Full System	—

Specifications (Cont.)	4.2/4.2t	3.2/3.2t	12.1
Suspension	Multi-Axis	Multi-Axis	—
Swing X Rotation	100° x 90°	100° x 90°	—
Terminals	Spring	Spring	Spring
Enclosure Material	ABS (paintable)	ABS (paintable)	MDF, Steel fastener reinforced
"t" Version	70 V: 3.75 W	5 W 70 V/10 W 100 V	—
Wattage Taps	70 V/100 V: 7.5 W, 15 W, 30 W		
Dimensions (H x W x D)	12.2" x 6.9" x 8.5"	9.2" x 5.1" x 6.5"	16.5" x 23" x 12"
Net Weight	8.5 lb. (3.9 kg)	3.3 lb. (1.5 kg)	40 lb. (18.1 kg)

System Examples

EVID Systems

Ceiling Systems

Ceiling Speakers

Ceiling Mounting

Horns

Paging Horns

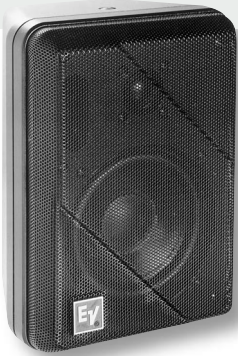
Compression Drivers

Mixer/Amps

Amplifiers

Paging Mics

S-40TB 5.25-inch 160-watt two-way system



A 5.25-inch, 160-watt two-way monitor loudspeaker system. Ideal for distributed sound applications that require high-quality sound reproduction. The low-frequency section is a 5.25-inch direct-radiating woofer with a polypropylene cone installed in an optimally vented, high-impact polystyrene enclosure. The high-frequency section is a 1-inch direct-radiating soft dome tweeter. The system's circuits automatically reduce power delivery to the drivers if their threshold is exceeded, greatly reducing the possibility of driver failure. The S-40TB utilizes a transformer that offers a selection of 1.9, 3.8, 7.5, 15 and 30 watts delivered to the loudspeaker system using either 70-volt or 100-volt lines.

S-40TW Same as the S-40TB except with a white cabinet.

S-40 Low impedance versions

S-40B Same as the S-40TB except no 70/100-volt matching transformer. Low impedance input with push terminal connectors.

S-40W Same as the S-40TW except no 70/100-volt matching transformer. Low impedance input with push terminal connectors.

S-40 Mounting hardware

S-40MBB Wall/ceiling/stand U-brackets for S-40B, S-40TB (black) pair

S-40MBW Wall/ceiling/stand U-brackets for S-40W, S-40TW (white) pair

SX-80TB 8-inch 175-watt two-way constant-directivity system



An 8-inch, 175-watt two-way, high-efficiency, constant-directivity speaker system for distributed sound applications requiring excellent sound reproduction. The small size, high sensitivity and high power-handling capacity of the SX-80TB make it an excellent choice for use in studios, clubs, bars, theaters or other applications. The high-frequency section of the model utilizes a molded-in 90° x 65° constant-directivity horn — a unique pattern that contributes to high intelligibility and aims the speaker output where it is most useful. The low-frequency section is an 8-inch direct-radiating woofer installed in an optimally-vented enclosure — resulting in exceptionally extended bass response and high efficiency in a very small cabinet. An internal, 60-watt line transformer offers selectable taps at 1.9, 3.8, 7.5, 15, 30 and 60 watts, allowing for easy connection to 70-volt or 100-volt speaker lines in distributed systems. Model comes in a black cabinet.

SX-80TW Same as the SX-80TB except with a white cabinet.

SX-80PIX Same as the SX-80TB except with weather-resistant construction including a full face grille. Woofer cone is treated to resist the effects of moisture and humidity. Black polystyrene cabinet.

SX-80 Low impedance versions

SX-80B Same as the SX-80TB except no 70/100-volt matching transformer. Low impedance input with push terminal connectors.

SX-80W Same as the SX-80TW except no 70/100-volt matching transformer. Low impedance input with push terminal connectors.

SX-80PI Same as the SX-80PIX except no 70/100-volt matching transformer. Low impedance input with push terminal connectors.

SX-80 Mounting hardware

SX-80MBB Wall/ceiling/stand U-bracket for SX-80B, SX-80TB, SX-80PIX, SX-80PI (black)

SX-80MBW Wall/ceiling/stand U-bracket for SX-80W, SX-80TW (white)

Specifications	S-40 Series	SX-80 Series
Frequency Response	70-20,000 Hz + 3 dB	70-20,000 Hz + 3 dB
Power Handling (long/short term)	175 watts/700 watts	175 watts/700 watts
Sensitivity	92 dB (1 watt/ 1 m)	92 dB (1 watt/ 1 m)
Output @ 1 m (continuous/peak)	114.5 dB/120.5 dB	114.5 dB/120.5 dB
Coverage (H x V):	100° x 100°	90° x 65°
Impedance (nominal)	4 ohms	8 ohms
Dimensions (H/W/D)	15.75 in. x 11.5 in. x 8.75 in. (400 mm x 292 mm x 222 mm)	15.75 in. x 11.5 in. x 8.75 in. (400 mm x 292 mm x 222 mm)
Net Weight	16 lb. (7.3 kg)	16 lb. (7.3 kg)
Shipping Weight	18 lb. (8.18 kg)	18 lb. (8.18 kg)

The EP series ceiling systems are a line of high performance integrated speakers designed for fast easy installation and hi-fidelity performance. Five models cover every type of need from small offices to large auditoriums. With demand for high quality audio growing ever faster in a variety of installations, these systems give exceptional sound coverage and distribute superior audio making them ideal for virtually any type of program material. Installation is easy and when combined with the Electro-Voice S-40 and SX-80 series of distributed surface mount speaker systems, see page 6, virtually any type of application need can be satisfied.

4-inch 16-watt premium speaker system EP405-16T

A 4-inch, 16-watt premium quick-mount ceiling loudspeaker system. Provides a wide and uniform dispersion throughout the critical speech bandwidth. Package consists of a spring/ bezel assembly, grille, rear enclosure, 4-inch full-range loudspeaker and line-matching transformer. The loudspeakers feature 4-inch curvilinear cones with high-linearity treated surrounds together with high-temperature voice coil assemblies. The EP405-16T utilizes a transformer that offers a selection of 2, 4, 8 and 16 watts delivered to the loudspeaker system using either 70-volt or 100-volt lines.

EP405-8T Same as 405-16T except with an 8-watt transformer allowing connections to 70.7/100-volt line, with taps of 1, 2, 4 and 8 watts.



6.5-inch 16-watt premium Duplex® speaker system EP407-16T

A 6.5-inch, 16-watt premium Duplex® ceiling loudspeaker system. Provides wide-dispersion, high-efficiency, high-maximum output and wide-range reproduction of music or voice. Package consists of a spring/bezel assembly, grille, rear enclosure, 6.5-inch Duplex® loudspeaker and line-matching transformer. The loudspeakers feature 6.5-inch low-frequency cones and high-temperature voice-coil assemblies coaxially mounted with wide-dispersion neodymium tweeters. Dual-magnet construction allows each speaker to be structurally, magnetically, electrically and mechanically independent from each other. The EP407 series utilizes a crossover network, centered at 3,000 Hz, providing 6 dB-per-octave tweeter protection outside of its operating range. The EP407-16T utilizes a transformer that offers a selection of 2, 4, 8 and 16 watts delivered to the loudspeaker system using either 70-volt or 100-volt lines.

EP407-8T Same as 407-16T except with an 8-watt transformer allowing connections to 70.7/100-volt line, with taps of 1, 2, 4 and 8 watts.



8-inch 6-watt Duplex® speaker system EP309-16T

An 8-inch, 16-watt Duplex® ceiling loudspeaker system. Provides wide-dispersion, high-efficiency, high-maximum output and wide range reproduction of music or voice. Package consists of a spring/bezel assembly, grille, rear enclosure, 8-inch Duplex® loudspeaker and line-matching transformer. The loudspeakers feature 8-inch low-frequency cones and high-temperature voice-coil assemblies coaxially mounted with wide-dispersion cone tweeters. Dual-magnet construction allows each speaker to be structurally, magnetically, electrically and mechanically independent from each other. The EP309 series utilizes a crossover network, centered at 3,000 Hz, providing 6 dB-per-octave tweeter protection outside of its operating range. The EP309-16T utilizes a transformer that offers a selection of 2, 4, 8 and 16 watts delivered to the loudspeaker system using either 70-volt or 100-volt lines.

EP309-8T Same as 309-16T except with an 8-watt transformer allowing connections to 70.7/100-volt line, with taps of 1, 2, 4 and 8 watts.



Specifications	EP405-16T	EP405-8T	EP407-16T	EP407-8T	EP309-16T	EP309-8T
Frequency Response	105-15,000 Hz	105-15,000 Hz	65-15,000 Hz	65-15,000 Hz	85-18,000 Hz	85-18,000 Hz
Sensitivity 1 W @ 1 m	90 dB	90 dB	93 dB	93 dB	96 dB	96 dB
Max SPL @ Full Power	101.2 dB	101.2 dB	105 dB	105 dB	108 dB	108 dB
Transformer Taps (in watts)	2, 4, 8, 16	1, 2, 4, 8	2, 4, 8, 16	1, 2, 4, 8	2, 4, 8, 16	1, 2, 4, 8
Height	7.25 in. (184 mm)	7.25 in. (184 mm)	4.7 in. (119 mm)	4.7 in. (119 mm)	9.26 in. (235 mm)	9.26 in. (235 mm)
Net Weight	6 lb. (2.7 kg)	5 lb. (2.3 kg)	3.3 lb. (1.5 kg)	3.3 lb. (1.5 kg)	7.5 lb. (3.4 kg)	7.5 lb. (3.4 kg)

System Examples

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Paging Horns

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Mixer/Amps

Amplifiers

Paging Mics

205-8T 4-inch 10-watt continuous full-range speaker



A 4-inch, 10-watt continuous full-range speaker. An acoustically transparent dome encloses a small, centrally mounted free-edge cone that is used to improve high-frequency dispersion. Suitable for applications requiring highly intelligible speech or smooth musical reproduction. This model includes an 8-watt transformer, allowing connections to 70.7/100-volt line, with taps of 1, 2, 4 and 8 watts.

205-4T Same as 205-8T except with a 4-watt transformer, allowing connections to 25-, 70.7-, 100-volt line, with taps of 0.5 to 4 watts.

205-8A Same as 205-8T without factory-mounted transformer. 8-ohm impedance, 10 watts.

405-4T 4-inch compact 4-watt full-range high performance speaker



A 4-inch, compact 4-watt full-range high performance ceiling loudspeaker. This model offers an extended 60-15,000 Hz range, ensuring clear, intelligible speech and good music reproduction. The die-cast aluminum frame houses a magnetic structure fabricated of heavy gauge steel. The small size of the speakers allows either front or rear mounting in walls, partitions, ceilings and into volumes as low as 0.1 cubic feet. Model 405-4T has a factory-mounted matching transformer allowing the loudspeaker to be run from 70.7-volts or 100-volt transmission lines, drawing 0.5, 1, 2 or 4 watts.

405-8H Same as 405-4T without factory-mounted transformer. 8-ohm impedance, 16 watts.

PRO-8A 8-inch 30-watt premium two-way speaker



The PRO-8A is accurate, highly intelligible and musical sounding loudspeaker that is well suited for the reproduction of both voice and music. The PRO-8A employs an unusually large 1-1/2-inch voice coil. This provides increased apex-driving-point cone area and greater thermal capabilities. The result is higher acoustic power output than other brands, which translates into unmatched durability and reliability at lower levels. High frequencies are reproduced by a 1-1/2-inch piezoelectric tweeter that is mounted directly to the pole piece of the woofer. The tweeter being mounted to a stationary surface at the apex of the woofer minimizes intermodulation distortion and allows for improved time alignment over other coaxial ceiling speaker designs. An acoustically transparent dust dome mounted on the woofer cone encapsulates the tweeter offering excellent dust protection for both the woofer voice coil and the tweeter. The PRO-8A series of speakers may be used in ported enclosures where improved low-frequency response is desired. Placing the loudspeaker in an enclosure of 1.0 cubic foot with a box-tuning frequency of 75 Hz will yield a -3 dB point of 80 Hz. An 80 Hz tuning may be obtained with a port having an area of 7.0 square inches and a length of 0.75 inches.

PRO-8AT5 Same as PRO-8A except it comes with a 70.7/100-volt line transformer offering a selection of 0.62-, 1.25-, 2.5- and 5-watt taps.

PRO-8AT30 Same as PRO-8A except it comes with a 70.7/100-volt line transformer offering a selection of 3.75-, 7.5-, 15- and 30-watt taps.

Specifications	205-8A	205-4T	205-8T	405-8H	405-4T	PRO-8A	PRO-8AT5	PRO-8AT30
RMS Power @ 8 Ohms	10 W	—	—	16 W	—	30 W	—	—
Frequency Response	90-18,000 Hz	90-18,000 Hz	90-18,000 Hz	60-15,000 Hz	60-15,000 Hz	82-16,000 Hz	82-16,000 Hz	82-16,000 Hz
Sensitivity 1 W @ 1 m	91 dB	91 dB	91 dB	90 dB	90 dB	96 dB	96 dB	96 dB
Max SPL @ Full Power	101 dB	101 dB	101 dB	102 dB	102 dB	110 dB	110 dB	110 dB
Transformer	8 ohms	0.25, 0.5, 1, 2, 4	1, 2, 4, 8	8 ohms	0.5, 1, 2, 4	8 ohms	0.62, 1.25, 2.5, 5	3.75, 7.5, 15, 30
Height	2.2 in. (56 mm)	3.7 in. (94 mm)	3.7 in. (94 mm)	2.12 in. (54 mm)	4.06 in. (103.2 mm)	3.15 in. (80 mm)	3.15 in. (80 mm)	3.15 in. (80 mm)
Net Weight	2 lb. (0.9 kg)	2.8 lb. (1.26 kg)	2.8 lb. (1.26 kg)	2.1 lb. (0.94 kg)	2.9 lb. (1.2 kg)	2.7 lb. (1.2 kg)	3.1 lb. (1.4 kg)	3.1 lb. (1.4 kg)

8-inch 10-watt full-range ceiling speaker 209-4T

An 8-inch, 10-watt full-range ceiling loudspeaker. The acoustically transparent dome encloses a small, centrally mounted free-edge cone for improved high-frequency speech or music dispersion. The 209-4T transformer allows connections to 25-, 70-, 100-volt line, with taps of 0.5, 1, 2 and 4 watts.

209-8A Same as 209-4T without factory-mounted transformer. 8-ohm impedance, 10 watts.

209-4TWB An 8-inch, 10-watt full-range loudspeaker for distributed sound systems. Nominal 8-ohm impedance. Suitable for use in applications requiring highly intelligible speech reproduction. An acoustically transparent dome encloses a small, centrally mounted free-edge cone that is used to improve high-frequency dispersion. This model comes pre-mounted on a ceiling grille and includes a transformer that allows for connections to 25-, 70-, 100-volt line, with taps of 0.5 to 4 watts.



8-inch 16-watt Duplex® ceiling speaker 309-8T

An 8-inch, 16-watt Duplex® ceiling loudspeaker. The design provides wide dispersion, high-efficiency, high maximum output for wide-range reproduction of music or voice. The loudspeakers feature 8-inch low-frequency cones and high-temperature voice-coil assemblies coaxially mounted with wide-dispersion cone tweeters. Dual-magnet construction allows each speaker to be structurally, magnetically, electrically and mechanically independent from each other. The 309-8T utilizes a crossover network, centered at 3,000 Hz and providing 6 dB of attenuation for the tweeter outside its operating range. This model comes with a 70.7/100-volt line transformer that offers < 1 dB insertion loss and a selection of 1-, 2-, 4- and 8-watt taps.

309-4T Same as 309-8T except it comes with a 25-, 70.7-, 100-volt line transformer that offers < 1 dB insertion loss and a selection of 0.5-, 1-, 2- and 4-watt taps.

309-8A Same as 309-8T without factory-mounted transformer. 8-ohm impedance, 16 watts.

309-8TWB An 8-inch, 16-watt Duplex® ceiling loudspeaker. The design provides wide dispersion, high-efficiency, high maximum output for wide-range reproduction of music or voice. Loudspeakers feature 8-inch low-frequency cones and high-temperature voice-coil assemblies coaxially mounted with wide-dispersion cone tweeters. Dual-magnet construction allows each speaker to be structurally, magnetically, electrically and mechanically independent from each other. The 309-8TWB utilizes a crossover network, centered at 3,000 Hz and providing 6 dB of attenuation for the tweeter outside its operating range. This model comes pre-mounted on a ceiling grille and includes a 70.7/100-volt line transformer that offers < 1 dB insertion loss and a selection of 1-, 2-, 4- and 8-watt taps.

309-4TWB Same as the 309-8TWB except it comes with a 25-, 70.7-, 100-volt line transformer that offers < 1 dB insertion loss and a selection of 0.5-, 1-, 2- and 4-watt taps.



8-inch 32-watt premium high performance Duplex® speaker 409-16T

An 8-inch, 32-watt premium high-performance Duplex® ceiling loudspeaker. The loudspeakers' 8-inch low-frequency cones and high-temperature voice-coil assemblies are coaxially mounted with wide-dispersion cone tweeters. The dual magnet construction allows each speaker to be structurally, magnetically, electrically and mechanically independent of the other. This model utilizes a single-section crossover network, centered at 2,500 Hz and providing 6 dB of attenuation for each element outside its operating range. Featuring a 15716 transformer for a 70.7/100-volt line, the 409-16T offers 2-, 4-, 8- and 16-watt taps.

409-32T Same as 409-16T except it comes with a 15732 transformer offering a selection of 4-, 8-, 16- and 32-watt taps.

409-8T Same as 409-16T except it comes with a 15708 transformer offering a selection of 1-, 2-, 4- and 8-watt taps.

409-8E Same as 409-16T without factory-mounted transformer. 8-ohm impedance, 16 watts.



Specifications	209-8A	209-4T/TWB	309-8A	309-4T/TWB	309-8T/TWB	409-8E	409-8T	409-16T	409-32T
RMS Power @ 8 Ohms	10 W	—	15 W	—	—	32 W	—	—	—
Frequency Response	80-15,000 Hz	80-15,000 Hz	85-18,000 Hz	85-18,000 Hz	85-18,000 Hz	85-18,000 Hz	85-18,000 Hz	85-18,000 Hz	85-18,000 Hz
Sensitivity 1 W @ 1 m	94 dB	94 dB	96 dB	96 dB	96 dB	97 dB	97 dB	97 dB	97 dB
Max SPL @ Full Power	104 dB	101 dB	108 dB	108 dB	108 dB	112 dB	112 dB	112 dB	112 dB
Transformer	8 ohms	0.25, 0.5, 1, 2, 4	8 ohms	0.25, 0.5, 1, 2, 4	1, 2, 4, 8	8 ohms	1, 2, 4, 8	2, 4, 8, 16	4, 8, 16, 32
Height (TWB)	2.8 in. (71 mm)	2.8 in. (71 mm) 3 in. (76 mm)	2.8 in. (71 mm)	2.8 in. (71 mm) 3 in. (76 mm)	2.8 in. (71 mm) 3 in. (76 mm)	3.25 in. (83 mm)	4.50 in. (114 mm)	4.86 in. (124 mm)	5.38 in. (137 mm)
Net Weight (TWB)	2.2 lb. (1 kg)	3 lb. (1.35 kg) 3.6 lb. (1.6 kg)	2.8 lb. (1.26 kg)	3.1 lb. (1.4 kg) 5.1 lb. (2.3 kg)	3.1 lb. (1.4 kg) 5.1 lb. (2.3 kg)	2.8 lb. (1.3 kg)	4 lb. (1.8 kg)	4.5 lb. (2.0 kg)	5 lb. (2.3 kg)

System Examples

EVID Systems

Ceiling Systems

Ceiling Speakers

Ceiling Mounting

Horns

Paging Horns

Compression Drivers

Mixer/Amps

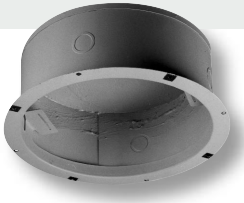
Amplifiers

Paging Mics

CEILING SPEAKER MOUNTING COMPONENTS

System Examples
EVID Systems
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Paging Horns
Compression Drivers
Mixer/Amps
Amplifiers
Paging Mics

5184-E Round back enclosure



.6 cu.ft. round back enclosure for 8-inch speaker (for existing construction)

5184-N 1.5 cu.ft. round back enclosure for 8-inch speaker (for new construction)

5195-X Round back enclosure



Back enclosure, 1/4 cu. ft. for 5295-WM grille. 4-inch speaker

5295-W Grille assembly. Round grille, white, screw mounting

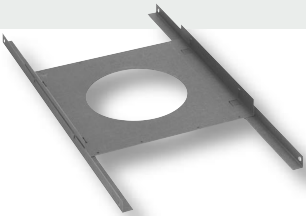
5281-W



Round grille

8-inch round loudspeaker grille with white finish 12.63-inch diameter (32.1-centimeter diameter)

CTB-4 Tile bridge



4-inch tile bridge for use with the EP405-8T and EP405-16T

CTB-6 6-inch tile bridge

CTB-8 8-inch tile bridge

EBK-2 Eyenut attachment kit for EP925 or EP950 speakers. Includes 3 eyenuts

CBA-4 EP405 replacement bezel

CBA-6 EP407 replacement bezel

CBA-8 EP309 replacement bezel

5487-X T-bar support for 5184E enclosure

Cross-reference chart Ceiling speakers and hardware

Speaker	Box	Depth	Cu. Ft.	Shape	Grilles	T-Bridge
All 209's, All 309's 409-8E, All Pro-8A's	5184-E <i>Existing Construction</i>	4-1/8"	.6	Round	5281-W round	5487-X
All 209's, All 309's 409-8E, All Pro-8A's	5184-N <i>New Construction</i>	4-1/8"	.5	Round	5281-W round	—
All 205's, All 405's	5195-X	6-13/16"	.25	Round	5295-W round screw mounting	—

Speaker Transformers

15704 4-watt speaker transformer for 70.7-volt line with 0.5-, 1-, 2- and 4-watt taps. 0.5 dB insertion loss.

15708 8-watt speaker transformer for 25/70.7-volt line with 1-, 2-, 4- and 8-watt taps. 0.5 dB insertion loss.

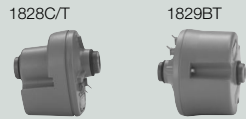
15716 16-watt speaker transformer for 70.7-volt line with 2-, 4-, 8-, and 16-watt taps. 0.5 dB insertion loss.

15732 32-watt speaker transformer for 70.7-volt line with 4-, 8-, 16- and 32-watt taps. 0.5 dB insertion loss.

Compound diffraction projector FC100

A compound diffraction horn consisting of two sections for use with 1828 or 1829 series drivers. The folded construction of the rear horn coupled with the smaller dimensions of the front horn provides a more extended frequency response and cleaner sound. FC100 comes in weather-resistant gray and includes an integral mounting bracket. Compound diffraction design, wide coverage pattern, and 150°H x 110°V at 2 kHz dispersion.

Compatible Drivers



Folded sectoral horn Cobreflex® IIB

A folded sectoral horn for all driver models in the 1824S, 1828, 1829, ID30, ID60 series and 7110XC. Features a patented design that eliminates high frequency phase cancellation and improves intelligibility. Cobreflex IIB provides an 80° x 60° dispersion, comes in weather-resistant gray and includes an integral mounting bracket. High efficiency and low cutoff frequency in a compact package.

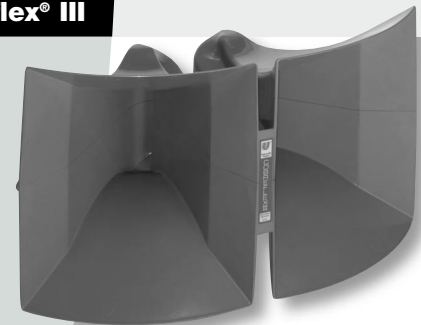
Compatible Drivers



Folded sectoral horn Cobreflex® III

A folded sectoral horn for all driver models in the 1824S, 1828, 1829, ID30, ID60 series and 7110XC. Features a patented design that eliminates high frequency phase cancellation and improves intelligibility. Cobreflex III provides an 100° x 60° dispersion, comes in weather-resistant gray and includes an integral mounting bracket. High efficiency and low cutoff frequency in a compact package.

Compatible Drivers



Specifications	FC100
Low-Freq Rolloff ¹ -12 dB	260 Hz
Dispersion ² 2 kHz	150° H x 110° V
Dimensions, in. (cm)	20.5 H x 10.5 W x 20.0 D (52.0 H x 26.5 W x 51.0 D)
Shipping Weight	21 lb. (9.5 kg)

Specifications	Cobreflex IIB	Cobreflex III
Beamwidth (@ 2 kHz):	80° H x 60° V	100° H x 60° V
Directivity Factor, R _θ (Q):	9.1 @ 2 kHz	15.9 @ 2 kHz
Lower Usable Limit	250 Hz min.	250 Hz min.
Dimensions, in. (cm)	9.3 H x 18.5 W x 10.3 D (23.6 H x 47.0 W x 26.2 D)	14.5 H x 27.5 W x 15.0 D (36.8 H x 69.9 W x 38.1 D)
Net Weight	5.1 lb. (2.3 kg)	7 lb. (3.2 kg)
Shipping Weight	6.7 lb. (3.0 kg)	10 lb. (4.5 kg)

1. Low frequency limit based on capability of driver used. If horn cutoff is higher than rated limit of driver, cutoff will be determining factor.
 2. Polar curves @ 10' in an anechoic chamber, 1/3 octave band-limited pink noise (-6 dB points).

System Examples
EVID Systems
Ceiling Systems
Ceiling Speakers
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Compression Drivers
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Paging Mics

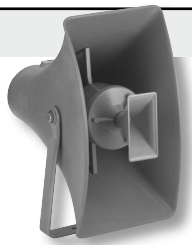
CDP-848AT 30-watt compound diffraction projector



A 30-watt compound diffraction projector. Wide range, integrated horn-and-driver system. Single driver is fitted to two coaxial horns, each coupled to opposite sides of the driver diaphragm. Weather-resistant gray with 150° H x 110° V at 2 kHz. Compound diffraction design allows for more uniform dispersion throughout the frequency range. The CDP-848AT features a 30-watt 1828T driver, 260 Hz-10 kHz frequency response, uniform dispersion over the frequency range and heavy-duty drivers with 25/70.7-volt transformers offering 0.5-, 1-, 2-, 4-, 8-, 15- and 30-watt taps.



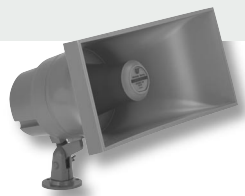
CDP-850T 60-watt compound diffraction projector



A 60-watt compound diffraction projector. Wide range, integrated horn-and-driver system. Single driver is fitted to two coaxial horns, each coupled to opposite sides of the driver diaphragm. Weather-resistant gray with 150° H x 110° V at 2 kHz. Compound diffraction design allows for more uniform dispersion throughout the frequency range. The CDP-850T features a 60-watt 1829BT driver, 280 Hz-8 kHz frequency response, uniform dispersion over the frequency range and heavy-duty drivers with 25/70.7-volt transformer offering 8-, 15-, 30- and 60-watt taps.



CFID32-T 32-watt paging projector



This 32-watt paging projector is designed for high speech intelligibility under adverse ambient conditions. Low distortion and smooth frequency response make the CFID32-T a good choice for background music in indoor or outdoor applications. 55° H x 74° V at 2 kHz, 25/70.7-volt transformer with 1.25-, 2.5-, 5-, 10-, 15- and 32-watt taps. CFID32-T comes in weather-resistant gray and offers diffraction effect for wide horizontal dispersion, 330 Hz-4.2 kHz frequency response, integral swivel bracket and weather-sealed gland-nut connection.



IBC8 30-watt reentrant paging projector/talkback speaker



The IBC8 is a 30-watt high-powered reentrant paging projector/talkback speaker. Designed for use in adverse ambient conditions, the IBC8 is weather-resistant and appropriate for outdoor or indoor use. Features 60° dispersion at 2 kHz, integral swivel mounting bracket, gray color and 8-ohm impedance.



MM2/MM2F/MM2TC 25-watt submergence proof speakers



MM2 A 25-watt submergence-proof design (U.S. Navy specification) with a serrated mounting bracket allowing for a 90° arc swivel. Ideal for use near water or spray. The gray MM2 features an 82° x 82° dispersion pattern and 16-ohm impedance. Each unit is fully protected against damage from high humidity, salt water and other environmental conditions.

MM2F Same as MM2 except with a flush mount designed for mounting on the front surface of bulkhead, wall or ceiling.

MM2TC Same as MM2 except with a surface/bulkhead mount and watertight internal matching transformer compartment. Requires University Sound 5030 transformer part no. 56-05-022109-04.

Specifications	CDP-848AT	CDP-850T	CFID32-8/32-T	IBC8
Power Handling (500 Hz-5 kHz)	30 watts	60 watts	32 watts	30 watts
Frequency Response	260 Hz-10 kHz	280 Hz-8 kHz	330 Hz-4.2 kHz (±5 dB)	500 Hz-7 kHz (±5 dB) 350 Hz lower usable limit
Acoustic Crossover	1 kHz	1 kHz	N/A	—
Sensitivity (1m, 500 Hz-5kHz)	105 dB SPL, 1 W, 1 m	105 dB SPL, 1 W, 1 m	107 dB SPL, 1 W	107 dB SPL, 1 W, 1 m
Impedance	70.7 V transformer	70.7 V transformer	25 or 70.7 V Xfmr for -T models	8 ohms nominal
Beamwidth (@ 2 kHz)	150° H x 110° V	150° H x 110° V	55° H x 74° V	60°
Directivity Factor, R ₀ (Q)	7.4 @ 2 kHz	5.2 @ 2 kHz	16.3 @ 2 kHz	N/A
Sensitivity as Microphone	—	—	-26 dBm	-26 dBm (ref.: 10 dynes/cm ²)
Dimensions, in. (cm)	20.5 H x 10.5 W x 20.0 D (52.0 H x 26.5 W x 51.0 D)	20.5 H x 10.5 W x 20.0 D (52.0 H x 26.5 W x 51.0 D)	7.1 H x 14.4 W x 12.5 D (18.1 H x 36.5 W x 31.8 D)	10.5 dia. x 9.0 deep (26.0 dia. x 22.9 deep)
Shipping Weight	18 lb. (8.2 kg)	21 lb. (9.5 kg)	CFID 32-8: 6 lb. (2.7 kg) CFID 32-T: 6.3 lb. (2.9 kg)	4.5 lb. (2.0 kg)

10-watt paging/talkback projector MIS8C

The MIS8C is a 10-watt paging/talkback projector with a compact design for flush mounting on walls and cabinets. Ideally suited for paging and general communication applications. The gray MIS8C features 100° dispersion and 8-ohm impedance.



30-watt constant-directivity paging projector PA430T

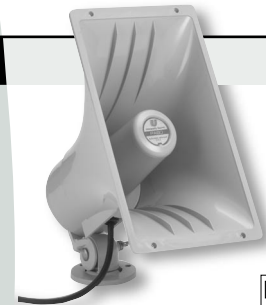
This horn is designed to provide a dispersion pattern that is constant over a 2 kHz to 10 kHz frequency range, reducing the number of horns needed to cover an area. The tan, weather-resistant PA430 features a 60° x 40° dispersion pattern, integral swivel bracket and a 25-, 70.7-, 100-volt transformer with 1.9-, 3.7-, 7.5-, 15- and 30-watt taps.



PA430 Same as PA430T except without a transformer, 8-ohm impedance.

60-watt reentrant paging projector PA60

This weather-resistant projector is an excellent choice for any outdoor or indoor public address/paging application where reliability and durability are important. Driver employs a rugged phenolic diaphragm and a “rim-centered” ferrite magnetic structure for dependability under extreme operating conditions. Durable ABS horn and die-cast zinc integral swivel mount. The tan PA60 provides an 80° x 50° dispersion pattern and 8-ohm impedance.



30-watt underwater speaker UW30

The UW30 underwater speaker is equipped with a waterproof, 3-conductor 50-foot cable. 8-ohm impedance, available in pool blue. Underwater speakers are required by the American Athletic Union for synchronized swimming events and instructions in Olympic pools. They are also ideal for water ballets or similar water shows and resort or private pools. Built for installation in both fresh and salt water pools, the UW30 can even be safely installed in ocean environments. Designed for permanent installation and completely submerged operation. Problems such as corrosion and electrolysis damage are completely eliminated due to the plastic construction. The 12.7-ounce ceramic magnet and state-of-the-art voice-coil construction assure full-fidelity response with the lowest possible distortion throughout its power range. One speaker is recommended for pools up to 30 by 30 feet, or two speakers for pools up to 30 by 60 feet.



Specifications	MM2	MM2F	MM2TC	UW30
Power Handling (500 Hz-5 kHz pink noise)	25 watts	25 watts	25 watts	30 watts
Frequency Response (±5 dB)	800 Hz-5 kHz	800 Hz-5 kHz	800 Hz-5 kHz	100 Hz-10 kHz
Sensitivity (dB SPL @ 1 W, 1 m)	104 dB SPL	104 dB SPL	104 dB SPL	N/A
Nominal Impedance	16 ohms	16 ohms	16 ohms (w/o line transformer)	8 ohms
Dimensions, in. (cm)	6.0 dia. x 5.0 D (15.2 dia. x 12.7D)	7.3 dia. x 3.8 D (18.5 dia. x 9.7D)	10.0 H x 6.4 W x 4.4 D (25.4 H x 16.3 W x 11.2 D)	7.2 dia. x 2.6 D (18.3 dia. x 6.6 D)
Net Weight	5.3 lb. (2.4 kg)	6 lb. (2.7 kg)	8.8 lb. (4.0 kg)	4 lb. (1.8 kg)

Specifications	PA430 & PA430T	PA60
Power Rating (500 Hz-5 kHz)	30 watts	60 watts
Frequency Response	400 Hz-6.5 kHz, ±5 dB, 350 Hz lower usable limit	600 Hz-6.5 kHz (±5 dB)
Sensitivity 1m (500 Hz-5 kHz) pink noise	107 dB SPL, 1W, 1m, (500 Hz-5 kHz pink noise)	107 dB SPL
Impedance	8 ohms nominal (PA430T: 5-way power selector)	8 ohms
Beamwidth (@ 2 kHz)	60° H (±20°); -6 dB points 1 kHz through 10 kHz; 40° V (+20°, -10°); -6 dB points 2 kHz through 10 kHz	80° H x 50° V @ 2 kHz
Directivity Factor, R₀ (Q)	15.2 @ 2 kHz	7.9 @ 2 kHz
Dimensions, in. (cm)	8.9 H x 12.1 W x 12.2 D (22.6 H x 30.7 W x 31.0 D)	11.0 H x 6.5 W x 8.5 D (27.9 H x 16.5 W x 21.6 D)
Shipping Weight	PA430: 3 lb. (1.4 kg) PA430T: 3.8 lb. (1.7 kg)	4.1 lb. (1.8 kg)

System Examples

EVID Systems

Ceiling Systems

Ceiling Speakers

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Paging Mics

1828T 30-watt driver for compound diffraction projector

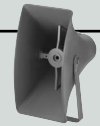


A 30-watt heavy-duty convertible driver designed for use with compound diffraction horns. Designed for general public address applications, the 1828T includes a built-in transformer with selectable power taps at 0.5, 1, 2, 4, 8, 15, 30 watts to accommodate 25- and 70.7-volt lines. Weather-resistant for outdoor or indoor use, dual 1-inch screw-on exit, wide frequency response. Comes with threaded plug to convert to conventional driver.

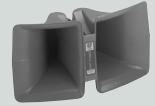
1828C Same as 1828T except without transformer, 8-ohm impedance.

Compatible Horns

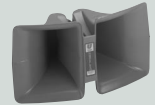
FC100



Cobreflex IIB



Cobreflex III



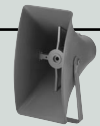
1829BT 60-watt driver for compound diffraction projector



A 60-watt heavy-duty convertible driver designed for use with compound diffraction horns. Designed for general public address applications, the 1829BT includes a built-in transformer with selectable power taps at 8, 15, 30 and 60 watts to accommodate 70.7-volt lines. Weather-resistant for outdoor or indoor use, dual 1-inch screw-on exits, wide frequency response. Comes with threaded plug to convert to conventional driver.

Compatible Horns

FC100



Cobreflex IIB



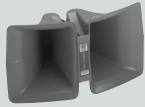
Cobreflex III



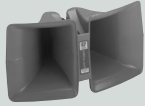
Specifications	1828C/1828T	1829BT
Power Handling (500 Hz-5 kHz pink noise)	30 watts	60 watts
Frequency Response	260 Hz-10 kHz, ±5 dB	280 Hz-8 kHz, ±5 dB
Sensitivity (1 W, 1 m, 500 Hz-5 kHz pink noise, Cobreflex III horn)	105 dB SPL (*on FC100)	105 dB SPL (*on FC100)
Nominal Impedance	8 ohms	16 ohms
Dimensions, in. (cm)	3.3 dia. x 4.0 depth (8.4 dia. x 10.2 depth)	5.3 dia. x 4.1 depth (13.5 dia. x 10.4 depth)
Net Weight	4.7 lb. (2.1 kg) 1828T: 5 lb. (2.3 kg)	7 lb. (3.2 kg) 1829T: 9.8 lb. (4.4 kg)

30-watt explosion proof driver 7110XC

Compatible Horns



Cobreflex IIB



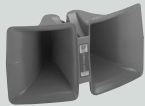
Cobreflex III

A 30-watt “explosion-proof” driver that will not create a spark or detonate in an explosive atmosphere. Integral sintered bronze acoustic screen and heavy die-cast aluminum case meet the UL standards for explosion-proof classification. Meets or exceeds standards for use in hazardous areas classified as Class I – Groups B, C and D, plus Class II – Groups E, F and G. Dual 1-inch screw-on exits, 8-ohm impedance. Driver housing is designed to contain a University Sound 5030 transformer for 20/70.7-volt distributed systems. Transformer purchased separately.

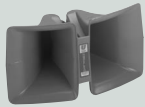


30-watt driver for reentrant horns ID30CT

Compatible Horns



Cobreflex IIB



Cobreflex III

A 30-watt heavy-duty driver for reentrant horns. Designed for use in applications that require continuous, high-level acoustic output such as high-level public address. Features rugged, weather-resistant phenolic diaphragms, indoor/outdoor packaging, 1-inch screw-on exit and a 25/70.7-volt transformer with 1.25-, 2.5-, 5-, 10-, 15- and 30-watt taps.

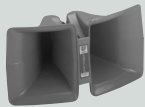
ID30C-16 Same as ID30CT except without transformer, 16-ohm impedance.

ID30C-8 Same as ID30CT except without transformer, 8-ohm impedance.

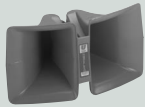


60-watt driver for reentrant horns ID60DT

Compatible Horns



Cobreflex IIB



Cobreflex III

A 60-watt heavy-duty driver for reentrant horns. Designed for use in applications that require continuous, high-level acoustic output such as high-level public address. Features rugged, weather-resistant phenolic diaphragms, indoor/outdoor packaging, 1-inch screw-on exit and a 25/70.7-volt transformer with 1.88-, 3.75-, 7.5-, 15-, 30- and 60-watt taps.



Specifications	7110XC	ID30 Series	ID60DT
Power Handling (500 Hz-5 kHz) pink noise	30 watts	30 watts	60 watts
Frequency Response	500 Hz-4 kHz, ±5 dB	500 Hz-4 kHz, ±5 dB	500 Hz-4 kHz, ±5 dB
Sensitivity (1 W, 1 m 500 Hz-5 kHz pink noise, Cobreflex III horn)	100 dB SPL	106 dB SPL	107 dB SPL
Nominal Impedance	8 ohms (on CF III)	8 ohms (ID30C-8) 16 ohms (ID30C-16) 25/70.7 CV (ID30CT)	8 ohms (ID60D-8) 25/70.7 CV (ID60DT)
Dimensions, in. (cm)	7.9 dia. x 7.4 D (20.1 dia. x 18.8 D)	4.2 dia. x 5.2 depth (10.7 dia. x 13.2 depth)	5.6 dia. x 6.4 depth (14.2 dia. x 16.3 depth)
Net Weight	12 lb. (5.4 kg)	3.5 lb. (1.6 kg) ID30CT: 4.5 lb. (2.0 kg)	5.9 lb. (2.7 kg) ID60CT: 7.4 lb. (3.4 kg)

System Examples

EVID Systems

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MA-355B 5-input mixer/amplifier 35-watt output



A 5-channel input mixer/amplifier with telephone paging input. Provides a versatile mixer/power amplifier for paging and commercial sound applications. Features 35-watt output; 4, 8 and 16 ohms plus 25/70.7-volt transformer isolated outputs; bass and treble controls. Each of the input controls can be used to adjust the level from six input sources. Input channels 1-3 are Lo-Z microphone inputs. Channel 4 is switch selectable to allow use as either a Lo-Z mic or auxiliary line level input. Channel 5 is for auxiliary line level inputs.

Channels 1 and 2 take priority over channels 3-5, while a transformer-balanced telephone paging input takes priority over all inputs.

RM-3/10 A rack mount kit for the MA and MR series. RM-3/10 comes in black and no rear bracing is required in fixed installations. Includes M4 and 6-32 screws, right and left side supports, and a front panel.

MA-605B 5-input mixer/amplifier 60-watt output



A 5-channel input mixer/amplifier with telephone paging input. Provides a versatile mixer/power amplifier for paging and commercial sound applications. Features 60-watt output; 4, 8 and 16 ohms plus 25/70.7-volt transformer isolated outputs; bass and treble controls. Input channels 1-3 are Lo-Z microphone inputs. Channel 4 is switch selectable to allow use as either a Lo-Z mic or auxiliary line level input. Channel 5 is for auxiliary line level inputs. Channels 1 and 2 take priority over channels 3-5, while a transformer-balanced telephone paging input takes priority over all inputs.

RM-3/10 A rack mount kit for the MA and MR series. RM-3/10 comes in black and no rear bracing is required in fixed installations. Includes M4 and 6-32 screws, right and left side supports, and a front panel.

MA-1005B 5-input mixer/amplifier 100-watt output



A 5-channel input mixer/amplifier with telephone paging input. Provides a versatile mixer/power amplifier for paging and commercial sound applications. Features 100-watt output; 4, 8 and 16 ohms plus 25/70.7-volt transformer isolated outputs; bass and treble controls. Input channels 1-3 are Lo-Z microphone inputs. Channel 4 is switch selectable to allow use as either a Lo-Z mic or auxiliary line level input. Channel 5 is for auxiliary line level inputs. Channels 1 and 2 take priority over channels 3-5, while a transformer-balanced telephone paging input takes priority over all inputs.

MR-355C AM/FM digital tuner



A 5-channel input mixer/amplifier with telephone paging input. Provides a versatile mixer/power amplifier for paging and commercial sound applications. Features 35-watt output; 4, 8 and 16 ohms plus 25/70.7-volt transformer isolated outputs; bass and treble controls; AM/FM digital tuner with 24 station presets. Input channels 1-3 are Lo-Z microphone inputs. Channel 4 is switch selectable to allow use as either a Lo-Z mic or auxiliary line level input. Channel 5 is for auxiliary line level inputs. Channels 1 and 2 take priority over channels 3-5, while a transformer-balanced telephone paging input takes priority over all inputs.

RM-3/10 A rack mount kit for the MA and MR series. RM-3/10 comes in black and no rear bracing is required in fixed installations. Includes M4 and 6-32 screws, right and left side supports, and a front panel.

Specifications	MA-355B	MA-605B	MA-1005B	MR-355C
Power Output	35 watts	60 watts	100 watts	35 watts
Frequency Response	80 Hz-15 kHz, ±2 dB			
THD at Rated Output	<0.5% @ 1 kHz			
Tone Controls, Bass	+7/-12 dB @ 100 Hz			
Tone Controls, Treble	+7/-12 dB @ 10 Hz			
Signal-to-Noise Ratio				
Mic 1 and 2	> 52 dB			
Aux 1 and 2	> 65 dB			
Paging	> 65 dB			
Power Amp In	> 90 dB			

Specifications	MA-355B	MA-605B	MA-1005B	MR-355C
Input Sensitivity/Impedance				
Mic, Balanced	0.3 mV/600 ohms			
Paging (Transformer isolated, Balanced)	-20 dBm [77.5 mV (adj.)]/600 ohms			
Power Amp In, Unbal	1 V/10 k ohms			
Aux 1 & 2, Unbal	100 mV/47 k ohms			
Output Level/Impedance				
Preamp Out, Unbal	1 V/1 k ohms			
Tape Out, Unbal	500 mV/47 k ohms			
Speaker Outputs	4, 8 & 16 ohms			
Number of Inputs	5			
Dimensions, in. (cm)	4.25 H x 16.5 W x 12.5 D (10.3 H x 42.0 W x 31.8 D)			
Net Weight	16 lb. (7.3 kg)	22.5 lb. (10.2 kg)	27.5 lb. (12.5 kg)	17.5 lb. (7.9 kg)

Power amplifier CPS 1

The CPS-1 high-performance 450 watt dual channel power amplifier includes innovative protection/safety features and unmatched dynamic range capability that exceeds the unique usage demands for fixed-installation applications. The five-way protection system protects both the amplifier and the speaker from damage resulting from line shorts, thermal overload, power surges, signal degradation, and signal overload. The unique Nonlinear Signal monitor gives the CPS-1 its outstanding dynamic range and eliminates "hard-edged" clipping which can destroy most speaker systems.

CPS 2 the CPS-2 incorporates all the advanced features of the CPS-1 but can deliver up to 600 watts of power at 1kHz into 4 ohms.

CPS 2t The CPS-2t offers all the performance of the CPS-2 and adds the capability of 70v/100v constant voltage operation. It also features Transformer Saturation Protection (TSP) that monitors the current demands of the 70v/100v matching transformer and can protect against overload and distortion.



Power amplifier 1407A

A 75-watt output power amplifier. Ideal for general-purpose applications in clubs, convention centers, meeting halls, etc. Accommodates four input types: 5-lug screw terminal, male or female XLR and phono connector. Amplifiers include a bridging transformer, 300 Hz switchable high pass filter and 15 dB switchable input pad. Two auxiliary unbalanced outputs are also provided: pre-fader and post-fader from the master output level control. Includes an 8-ohm direct output and balanced outputs including 4 ohm, 25-volts and 70.7-volts. The amplifiers are fully protected from short circuited loads, overheating and excessive load reactance. Also protected from loads from turn-on/turn-off transients, subsonic signals and DC offsets.

1415A Same as 1407A except with 150-watt continuous average output power.



Power amplifier output Transformers

4/8-ohm primary load, 70.7/100-volt secondary load, 0.5 dB insertion loss.

- | | |
|-----------------------|------------------------|
| 15060 60-watt | 15200 200-watt |
| 15075 75-watt | 15300 300-watt |
| 15100 100-watt | 15470A 400-watt |
| 15150 150-watt | 15600 600-watt |

Specifications	1407A	1415A
Frequency Response	Ref 1 kHz at 1 watt output power	Ref 1 kHz at 1 watt output power
Direct Output, ±1 dB	20 Hz-20 kHz	20 Hz-20 kHz
±3 dB	10 Hz-30 kHz	10 Hz-30 kHz
THD	0.01% (Ref 1 kHz)	0.01% (Ref 1 kHz)
Power Bandwidth	(±3 dB Ref. 1 kHz at rated output power)	(±3 dB Ref. 1 kHz at rated output power)
Transformer Output	50 Hz-15 kHz (Any output tap)	50 Hz-15 kHz (Any output tap)
Dimensions, Height	5.25 in. (13.3 cm)	5.25 in. (13.3 cm)
Width	19.0 in. (48.3 cm)	19.0 in. (48.3 cm)
Depth	12.5 in. (31.8 cm)	12.5 in. (31.8 cm)
Weight	24.2 lb. (11.0 kg)	30.8 lb. (14.0 kg)
Damping Factor	>50	>50
Signal-to-Noise Ratio	>100 dB	>100 dB
Transformer Output (Any Output Tap) ±1 dB	20 Hz-16 kHz	20 Hz-16 kHz
Transformer Output (Any Output Tap)	95 watts	190 watts
Direct Output	20 Hz-20 kHz	20 Hz-20 kHz
Continuous Average Output Power (Direct or Transformer Output)	75 watts	150 watts
Maximum Midband Output Power (Ref. 1 kHz, 1% THD) Direct Output	100 watts	200 watts

Specifications	CPS 1	CPS2	CPS2t
Maximum Power (<1% THD, 1 kHz both channels driven):	2 ohms	650 watts	850 watts
	4 ohms	450 watts	600 watts
	8 ohms	280 watts	380 watts
Rated Power (<0.2% THD, 20 to 20,000 Hz both channels driven):	2 ohms	450 watts	650 watts
	4 ohms	350 watts	500 watts
	8 ohms	230 watts	300 watts
Maximum Bridged Output (<1% THD, 1 kHz):	4 ohms	1300 watts	1700 watts
	8 ohms	900 watts	1200 watts
Slew Rate:	25 V/ms	30 V/ms	30 V/ms
Total Harmonic Distortion:	<0.05%	<0.05%	<0.05%
Intermodulation Distortion:	<0.08%	<0.08%	<0.08%
Crosstalk (at 1 kHz):	<-80 dB	<-80 dB	<-80 dB
Input Impedance (Balanced):	20 k ohms	20 k ohms	20 k ohms
Signal to Noise Ratio (dB-A Weighted):	>105 dB	>105 dB	>105 dB
Dimensions (Inches):	Height	5.2 (133 mm)	5.2 (133 mm)
	Width	19.0 (483 mm)	19.0 (483 mm)
	Depth	15.2 (386 mm)	15.2 (386 mm)
Weight (Pounds)	33.1 (15 kg)	35.3 (16 kg)	49.6 (22.5 kg)

Power requirements: 120v, 50 Hz - 60 Hz, factory configured.
Protection: Audio limiters, high temperature, DC, HF, Back-EMF, Peak current limiters, Inrush current limiters, turn-on delay.
Cooling: Front-to-rear, 3-stage-fans
Note: Amplifier at rated conditions, both channels driven, 8 ohms load, unless otherwise specified.

System Examples
EVID Systems
Ceiling Systems
Ceiling Speakers
Ceiling Mounting
Horns
Paging Horns
Compression Drivers
Mixer/Amps
Amplifiers
Paging Mics

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US690 Gooseneck mic

A 12-inch flexible gooseneck microphone. Features N/DYM® magnet structures that provide up to 6 dB more sensitivity than conventional designs. A dynamic cardioid, the US690 terminates with an XLR-type connector and plug-in mount.



US622L Single-zone desktop paging mic

A dynamic, low-impedance balanced-output microphone. Designed for general communication and paging application use. Stand alone for desktop use or may be configured for hand-held operation. Noise cancelling design, provides base-mounted push-to-talk operation.



US625ST Handset

A telephone style handset microphone and receiver featuring clear speech transmission in high ambient noise level environments, convenient push-to-talk activation and noise cancelling dynamic design. Well suited where a receiver is needed as well as a microphone for communications use.



US600EL PTT hand mic

A hand microphone designed for maximum noise rejection in high ambient areas and effective use without “close talking” techniques. An excellent choice for critical communication applications, US600EL is built to withstand rough usage and atmospheric extremes.

US602FL A hand microphone featuring clear speech transmission in high ambient noise level environments, convenient grip-to-talk activation and noise canceling dynamic design. Perfect for police, marine and mobile paging applications.



MP756 11-zone desktop paging mic

An 11-zone all-call microphone. MP756 features an all-call switch for simultaneous activation of all paging zones and a paging indicator lamp.

MP753 A 3-zone all-call microphone. MP753 features an all-call switch for simultaneous activation of all paging zones and a paging indicator lamp.



Specifications	US690	US625ST	US622L	US600EL/FL	MP756/753
Generating Element	Dynamic	Dynamic	Dynamic	Dynamic	Dynamic
Frequency Response	60 Hz-20 kHz	50 Hz-7 kHz	100 Hz-9 kHz	100 Hz-7 kHz	60 Hz-10 kHz
Polar Pattern	Supercardioid	Noise cancelling	Noise cancelling	EL: Omnidirectional FL: Noise cancelling	Omnidirectional
Impedance	150 ohms	150 ohms	150 ohms	150 ohms	200 ohms
Output Level	-50 dB	-60 dB	-57 dB	-55 dB	-58 dB
Switch	N/A	PTT	Shorts or opens in “off” mode	Shorted in “off” mode	11 zone and all call
Dimensions, in.	2 dia x 16.6 long	8.9 H x 2.4 W x 2.6 D	9.7 H x 4.5 W x 4.8 D	3.9 H x 2.7 W x 1.8 D	9 H x 4 W x 6 D
Net Weight	1 lb., 1.8 oz. (505 g)	14 oz. (397 g)	1 lb., 13 oz. (822g)	10 oz. (283.5 g) including cable	2 lb. (0.9 kg)

2-zone desktop paging mic SB253

A 2-zone paging desk microphone. Designed for paging applications where it is necessary to page into two different areas, either separately or simultaneously. Typical applications include central paging for restaurants, bowling alleys, warehouses and factories. SB253 should be used with an amplifier that has an input impedance of 50 to 100 ohms. Extended cable length may be used without performance deterioration.



Single-zone desktop paging mic 253

A low-impedance single-zone paging desk microphone. Microphone housing is constructed of strong, one-piece, die-cast zinc alloy with gray powder coat finish. 253 is equipped with a 4-conductor, 2-shield cable to allow for external relay operation. Also equipped with a front press-to-talk bar with a locking bar lever on the side of the base. Rugged yet sensitive, the 253 should be used with amplifiers that have input impedance of 50 to 250 ohms.



752 A low-impedance, cardioid microphone for single-zone paging. Equipped with two double-pole, single-throw leaf switches for either push-to-talk or lift-to-talk operation.

Single-zone gooseneck mic SR785LN/O

A low-impedance, gooseneck microphone for single-zone paging. Designed for applications where ruggedness, dependability and durability are the main requirements. Microphone housing is constructed of die-cast zinc alloy to stand up to the toughest abuse and conditions. Features a recessed aluminum grille with windscreen and a durable satin-chrome finish. All units include a heavy-duty, 3-hole mounting flange and an extra-strength 16-inch flex arm of steel tubing. SR785LN/O includes a push-button switch with normally "open" switching.

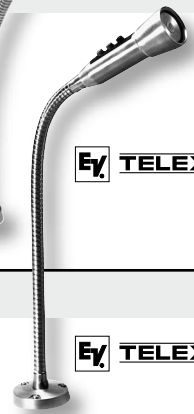


SR785L Same as SR785LN/O except without normally "open" switching.

785L Same as SR785LN/O except without a switch.

3-zone gooseneck mic MP785

A 3-zone omnidirectional gooseneck paging microphone. Any or all zones may be called by depressing the appropriate, color-coded buttons. Three mounting screws are supplied with the microphone. Features a durable satin-chrome finish, die-cast aluminum alloy housing, steel flex arm and aluminum mounting base.



PTT noise cancelling hand mic NC450D

A dynamic paging hand microphone. NC450D's noise-canceling design makes it particularly effective for use in noisy locations and excellent voice response characteristics make it a good choice in quiet areas as well. Output impedance is 200 ohms for matching low impedance input circuits. A push-to-talk switch is located on the molded ABS microphone housing. A soft rubber lip guard assure user of correct microphone-to-mouth positioning.



450D Same as NC450D except without noise-cancellation. Molded Cycloc[®] housing in pebble-grain black finish and unterminated black neoprene coil cord relieved at the housing by spring-type strain relief.

Wall plate mic WP300S

A dynamic, omnidirectional wall plate microphone. Ideal for security monitoring, fast-food and retail outlets, warehouses and public usage applications. WP-300S mounts on standard electrical, single-gang wall boxes. The housing of each unit is an aluminum assembly on a steel outlet plate with a brushed, satin-chrome finish. The assembly is complete with rubber shock mount. Includes a double-pole, double-throw switch for push-to-talk and line shorting capabilities.



WP300 Same as WP-300S except without double-pole, double-throw switch.

Specifications	SB253/253	SR785LN/O	785L	MP785	450D/NC450D	WP300/300S
Generating Element	Dynamic	Dynamic	Dynamic	Dynamic	Dynamic	Dynamic
Frequency Response	60 Hz-10 kHz	100 Hz-10 kHz	100 Hz-10 kHz	100 Hz-10 kHz	100 Hz-8 kHz	100 Hz-10 kHz
Polar Pattern	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional (450D) Noise cancelling (NC450D)	Omnidirectional
Impedance	150 ohms	150 ohms	150 ohms	150 ohms	200 ohms	150 ohms
Output Level	-59 dB	-58 dB	-58 dB	-58 dB	-64 dB	-60 dB
Switch	2 zone (SB253) single zone (253)	Single zone normally open (SR785LN/O) normally shorted (SR785L)	—	3 zone	PTT	PTT (WP300S only)
Dimensions, in.	7.75 H x 4 W x 5.5 D	Gooseneck 16 Body 5.25 x 1.825	Gooseneck 16 Body 5.25 x 1.825	Gooseneck 16 Body 5.25 x 1.825	2.5 H x 3 W x 4 D	4.5 H x 2.75 W x 1.125 D
Net Weight	2 lb. (0.9 kg)	14 oz. (397 g)	1.25 lb. (0.57 kg)	1.7 lb. (0.77 kg)	9 oz. (225 g)	WP300: 3 oz. (85 g) WP300S: 3.5 oz. (99 g)

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CPS-1	Power Amplifier	17
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EVID-4.2	Full-range multi-use speaker system	5
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S-40TB	5.25-inch 160-watt two-way system	6
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SX-80MBW	8-inch 175-watt two-way constant-directivity system Mounting Hardware	6
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SX-80PIX	8-inch 175-watt two-way constant-directivity system	6
SX-80TB	8-inch 175-watt two-way constant-directivity system	6
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209-4TWB	8-inch 4-watt full-range ceiling speaker with grille	9
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309-4T	8-inch 4-watt Duplex® ceiling speaker	9
309-4TWB	8-inch 4-watt Duplex® ceiling speaker with grille	9
309-8T	8-inch 8-watt Duplex® ceiling speaker	9
309-8TWB	8-inch 8-watt Duplex® ceiling speaker with grille	9
309-8A	8-inch 16-watt Duplex® ceiling speaker	9
405-4T	4-inch compact 4-watt full-range high performance speaker	9
405-8H	4-inch compact 8-watt full-range high performance speaker	9
409-16T	8-inch 16-watt premium Duplex® speaker	9
409-32T	8-inch 32-watt premium Duplex® speaker	9
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Step Up To Electro-Voice®

AMERICA:

USA: Telex Communications Inc. 12000 Portland Ave South, Burnsville, MN 55337, USA, Phone: 952-884-4051, Fax: 952-884-0043
Western Canada: PAG Canada. 23 Hawkesbury Crescent, Winnipeg, MB R3P-1Y6, Canada, Phone: 888-850-8811, Fax: 204-489-7614
Eastern Canada: PAG Canada. 728 Eglinton Ave. East, Toronto, ON M4G 2K7, Canada, Phone: 800-881-1685, 416-431-4975, Fax: 416-431-4588
Québec: Acoustik GE Inc. 5715 Kincourt, Montréal, PQ H4W 1Y7, Canada, Phone: 866-369-2864, 514-369-2864, Fax: 514-487-9525
Mexico: Telex Communications de Mexico. Parque Chapultepec 66-201, Naucalpan, Edo. Mex. 53390, Mexico, Phone: +52 555 358-5434, Fax: +52 555 358-5588
Latin America: Telex Communications Inc. 12000 Portland Ave South, Burnsville, MN 55337, USA, Phone: 952-887-7491, Fax: 952-887-9212

EUROPE:

Germany: Telex EVI Audio GmbH. Hirschberger Ring 45, D 94315, Straubing, Germany, Phone: +49 9421-706 0, Fax: +49 9421-706 265
France: EVI Audio France S.A. Parc de Courcerin, Allée Lech Walesa, F 77185 Lognes, France, Phone: +33 1-6480-0090, Fax: +33 1-6006-5103
UK: Telex Communications Ltd. 4, The Willows Centre, Willow Lane, Mitcham, Surrey CR4 4NX, UK, Phone: +44 208 646 7114, Fax: +44 208 640 7583
Africa & Middle-East: Telex EVI Audio GmbH. Hirschberger Ring 45, D 94315, Straubing, Germany, Phone: +49 9421-706 0, Fax: +49 9421-706 265

ASIA & PACIFIC RIM:

Japan: EVI Audio Japan Ltd. 5-3-8 Funabashi, Setagaya-Ku, Tokyo, Japan 156-0055, Phone: +81 3-5316-5020, Fax: +81 3-5316-5031
Australia: EVI Audio (Aust) Pty Ltd. Slough Business Estate, Unit 23, Silverwater, N.S.W. 2128, Australia, Phone: +61 2-9648-3455, Fax: +61 2-9648-5585
China: EVI Audio (HK) Ltd. Unit E & F, 21F, Luk Hop Industrial Bldg., 8 Luk Hop St., San PO Kong, Kowloon, Phone: +852 2351-3628, Fax: +852 2351-3329
Singapore: Telex Pte. Ltd. 3015A Ubi Road 1, 05-10 Kampong Ubi Industrial Estate, Singapore 408705, Phone: +65 746-8760, Fax: +65 746-1206

www.electrovoice.com • www.telex.com

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