EV Electro-Voice

Commercial Audio Solutions

The Electro-Voice advantage in distributed audio is our "total system" approach. Each Electro-Voice product is designed with the whole system in mind. As these examples illustrate, Electro-Voice can offer a complete, input-to-output solution, from the paging microphone to the ceiling speaker. Each component is designed to work together, resulting in simple system designs and user-friendly operation. We offer a wide range of options in every product category; from surface-mount speakers to paging horns to power amplifiers, multiple models are available that allow the system designer to precisely address any installation challenge.

EVIDs in action at award-winning recreation center

The List

Speaker	Description	Count
EVID C8.2LP	Ceiling Speaker	26
EVID 4.2T	Surface Mount Speaker	12
EVID C8.2HC	High Ceiling Low Reverb Speaker	4
EVID C6.2T	Surface Mount Speaker	4

The Rio Vista Recreation Center in the City of Peoria, Ariz., is a stunning new facility that combines modern architecture with state-of-the-art Electro-Voice technology. Rio Vista enjoys high-resolution AV performance thanks to a a a distribution of EVID loudspeakers and CDP series paging horns installed by Level 3 Audio Visual of Mesa, Ariz. "The EVID family's streamlined style was perfect for Rio Vista's contemporary look," says Jeremy Elsesser of Level 3. "They maintain the building's architectural vision while delivering superior quality audio throughout the complex."

The EVID system at Rio Vista delivers consistent, high-level paging and playback. Elsesser explains, "EVID is more than just a distributed system in a municipal facility. Every speech, playback, and paging application is possible with EVID, and all with super-intelligible, full-bandwidth audio performance. Rio Vista is extremely happy with the look and sound of their EV solutions."

"EVID ceiling speakers are in a class by themselves," Elsesser continues. "They are easy-to-use, aesthetically pleasing, and they deliver remarkable audio quality. People are always shocked to hear this level of performance from a ceiling speaker. The City of Peoria told us EVID is the only ceiling speaker they'll be using from now on!"

EVIDs at Grace Hotel in New York City

The EVID 4.2 speakers at Grace Hotel in Times Square, New York City, provide hi-fi audio without interfering with the hotel's exquisite décor, thanks to an installation by VideoSonic of Manhattan.

"Grace isn't your average hotel, and EVID isn't your average loudspeaker," says Glenn Polly, President of VideoSonic. "The guests at Grace love the look of the EVIDs as much as they love the sound."

"Grace wanted to install loudspeakers to complement the architecture of the hotel, and only EVID looked—and sounded— the part."

EVIDs add versatile style to UK car showroom

The Audi Centre in Poole, Dorset, England has installed an EVID system in its state-of-the-art showroom.

The Complete Production Solutions Group from Bournemouth designed and installed the system—a sound solution to complement the stylish interior of their new premises.

"The showroom is used for many things besides selling cars," explains Richard Colegate from CPS. "EVIDs provide a perfect combination of sound for both music and speech intelligibility, and they look great."

Brain Traffic

EVID 4.2 surface-mount loudspeakers help match visual style with sonic substance at Brain Traffic, a Web content design firm based in Minneapolis.

Aufderworld from Bloomington, Minn. worked closely with interior design company Life Space Interiors to find a sound system that would compliment the vision for Brain Traffic's meeting room.

"Brain Traffic needed sound reinforcement to enhance their creative think tank for their team of writers and designers," says Aufderworld Chief Operations Officer Jason Chelminiak. "We installed EVIDs, because with their power, flexibility, and aesthetic, there isn't an application EVID can't fit."

EV∂D™

EV Innovative Design

The EVID concept means innovation. EVID is not just another speaker. From the unique, superior design to its innovative acoustic integrity, EVID delivers value, performance and ease-of-use to the contractor and end listener alike. In designing EVID, we evaluated all current products available and asked contractors and typical end users, "What's important?" End users wanted something attractive and superior sounding in a world of plain black boxes. Contractors wanted a comprehensive line that would provide flexible choices for easier system design and installations. We took their 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 characteristics installers need and the features users want.

EVID 6.2
Extended Range
High Output Speaker System

Comprised of dual, six-inch LF drivers and a one-inch Ti/waveguide, the EVID 6.2 is perfect for applications that require exemplary audio and the apability to fill large areas with sound. The flexible Strong-Arm-Mount (SAM™) system also provides the versatility to accommodate any installation challenge. EV's unique six-inch dual woofer design delivers crisp and clean sound for the best listening experience regardless of the location. Great for larger areas that demand higher SPL, the 6.2 delivers outstanding, full-bass output required by shopping malls, stadiums, and airports. All versions available in White or Black.

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

EVID 4.2
Compact
Full-Range Multi-use Speaker System

The EVID 4.2 is perfect for a variety of enviroments 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, four-inch woofers make the 4.2 a phenomenal performer. The one-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 4.2 a solid choice in any enviroment.

EVID 4.2t   Identical to the EVID 4.2 but features a line tranformer that offers selectable tabs at 3.75 W, 7.5 W, 15 W and 30 W, allowing for easy connection to 70 V or 100 V 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 enviroments (e.g., offices, retail stores, restaurants, etc.) Coupled with the 12.1 subwoofer, two for four EVID 3.2 speakers deliver amazing SPL for foreground music.

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

To augment 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. All versions available in White or Black.

Specification	12.1		Max SPL	122 dB
Frequency Response (-10dB)	40 Hz-140 Hz		Terminals	Spring
Power Handling	175 W/175 W		Enclosure Material	MDF, Steel fastener reinforced
Sensitivity 1 W @ 1 m	100 dB		Dimensions (H x W x D)	16.5" x 23" x 12" (412 x 584 x 305 mm)
Impedance	8 Ohms		Net Weight	40 lbs. (18.1 kg)

AB-ZE

The AB-ZE is a versatile array bracket that is used to suspend EVID or ZX1i loudspeaker arrays, using a unique design to minimize assembly time. The AB-ZE kit is compatible with EVID 3.2, EVID 4.2, EVID 6.2, ZX1i-90 and ZX1i-100 loudspeakers, and can be used with either two or four loudspeakers to create 180° and 360° horizontal arrays. The loudspeakers attach to the array bracket using the standard Strong Arm Mounts supplied with each speaker.

Universal Array Bracket
Array Mounting System

Tabletop Stands

Specification	6.2/6.2t	4.2/4.2t	3.2/3.2t
Frequency Response (-10dB)	62 Hz-20 kHz	65 Hz-20 kHz	85 Hz-20 kHz
Power Handling	300 W	200 W	150 W
Sensitivity 1 W @ 1 m	94 dB	89 dB	87 dB
Impedance	8 Ohms	8 Ohms	8 Ohms
Max SPL	118 dB	113 dB	108 dB
Horz. Coverage	100°	120°	140°
Vert. Coverage	80°	80°	100°
LF Transducer	2 x 6" (150 mm)	2 x 4" (100 mm)	2 x 3.5" (90 mm)
HF Transducer	1" (25 mm)	1" (25 mm)	.75" (20 mm)
Protection	Full System	Full System	Full System
Suspension Swing X Rotation	Multi-Axis 100° x 90°	Multi-Axis 100° x 90°	Multi-Axis 100° x 90°
Terminals	Spring	Spring	Spring
Enclosure Material	ABS (paintable)	ABS (paintable)	ABS (paintable)
"t" Version Wattage Taps	70 V: 7.5 W 70 V/100 V: 15 W, 30 W, 8 Ohm bypass	70 V: 3.75 W 70 V/100 V: 7.5 W, 15 W, 8 Ohm bypass	5 W 70 V/ 10 W 100 V
Dimensions (H x W x D)	16.5" x 9" x 11.75" (419 x 228 x 298 mm)	12.2" x 6.9" x 8.5" (310 x 175 x 216 mm)	9.2" x 5.1" x 6.5" (234 x 127 x 165 mm)
Net Weight	12 lbs. (5.3 kg)	8.5 lbs. (3.9 kg)	3.3 lbs. (1.5 kg)

HS-3 The HS-3 horizontal tabletop stand allows the EVID 3.2 and 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.

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.

EV

EV**I**D™

EV **I**nnovative **D**esign

No matter what an installation calls for, EVID ceiling speakers can fill the need. Each model is unique and designed to meet the toughest "problem" job specifications. Sonically superior and aesthetically pleasing, the EVID ceiling speakers have no match. From the compact, powerful C4.2 to the exclusive waveguide-coupled design of the C8.2HC for high-ceiling environments; the EVID ceiling line will solve any installation requirement. The EVID ceiling speaker line was designed with the contractor and listener in mind. Great sound, simple installation, and exceptional value are part of every model.

EVID C4.2
Compact Ceiling Speaker

Perfect for conventional rooms. Excellent bandwidth in an attractive, unobtrusive profile. Its compact design fits in tight areas. Fully rated for use in air handling spaces. Its four-inch woofer and waveguide-coupled, titanium-coated dome tweeter give smooth, wide frequency response. The enclosure is ported and tuned to provide surprising bass response in such a compact package. Features an easy, three-point mounting system for quick installations. Comes complete with mounting support ring and tile rails. No additional accessories needed for most installations. This version is also available in Black.

EVID C8.2
High-Performance Ceiling Speaker

Never before has a ceiling speaker system delivered such full-range punch. Its specially tuned enclosure and eight-inch woofer provide amazing bass response. The one-inch, waveguide-coupled tweeter give smooth controlled coverage to 18 kHz. Perfect for installations where a flush-mount design is desired but demand for high-quality audio exists. Features a four-point mounting system to make installations fast and easy. Comes complete with mounting support ring and tile rails. No additional accessories needed for most installations. This version is also available in Black.

EVID C8.2LP

Same as C8.2 but with low profile back can (3" shorter in depth) for tight fitting ceiling spaces. C8.2LP spec change to 7" (181mm) in depth.

EVID C8.2HC
High-Ceiling Speaker System

The EVID C8.2HC is ideal for high-ceiling, reverberant "problem" rooms. Its exclusive ported, waveguide-coupled, eight-inch driver provides excellent intelligibility and definition. The 8.2HC's patent-pending design provides great coverage control throughout the voice range and above. No other speaker system provides the combination of excellent pattern control, wide bandwidth, high power handling and compact design like the C8.2HC. Features a secure four-point mounting system to make installations fast and easy. Comes complete with mounting support ring and tile rails. No additional accessories needed for most installations.

EVID C10.1
Ceiling Subwoofer

The C10.1 packs a large 10" subwoofer in a tuned high performance enclosure to give amazing low frequency performance down to 45 Hz! The 10.1 is one of the only quick mount ceiling TRUE subwoofers available on the market. Flexible installation, and powerful low-end performance make this an ideal companion to any EVID model. Features a secure, four-point mounting system to make installations fast and easy. Comes complete with mounting support ring and tile rails. No additional accessories needed for most installations.

The EVID C12.2 loudspeaker system is a high-efficiency, integrated ceiling loudspeaker package for large venues including high-ceiling applications where maximum SPL is important. The loudspeaker features the EVID 920-8B transducer, a 12-inch coaxial with high power handling and 100 dB sensitivity. The integrated 64 W transformer allows for use in 70 V/100 V applications, and includes automatic saturation compensation for distortion free performance at high sound levels. Transformer tap selection via a convenient switch on the front baffle. The rear enclosure is constructed from heavy-gauge steel and has a durable, black powder-coat that blends in when used in open-ceiling applications.

A tile bridge is included for safe suspension of the C12.2 ceiling systems in a drop ceiling that uses mineral wool, or other fiber-based ceiling tiles. The C12.2 can also be suspended by an integrated 3/8-inch rigging point for use with threaded rod, or it can be mounted using the three pendant mount tabs on the rear enclosure.

A rear cover, with provisions for a junction box fitting, provides access to a four-pin, phoenix-type connector that allows direct connection to the speaker with 12-gauge wire and provides pass through to additional speakers.

EVID C12.2
Ceiling Speaker

RR-42
Rough-In Mounting Plate

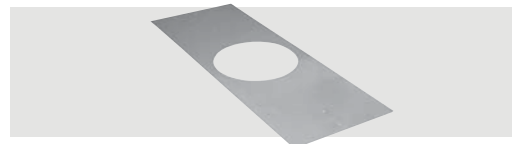For use with the EVID C4.2 (package of four).

| **RR-82** | Rough-in mounting plate for use with the EVID C8.2 and C8.2LP (package of four). |

| **RR-810** | Rough-in mounting plate for use with the EVID C8.2HC and C10.1 (package of four). |

RPK-42
Rough-In Mounting System

For use with the EVID C4.2. Includes junction box and flexible conduit to support pre-wiring of the installation (package of two).
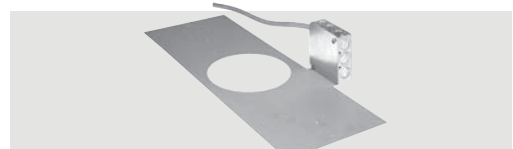
| **RPK-82** | Rough-in mounting system for use with the EVID C8.2 and C8.2LP. Includes junction box and flexible conduit to support pre-wiring of the installation (package of two). |

| **RPK-810** | Rough-in mounting system for use with the EVID C8.2HC and C10. Includes junction box and flexible conduit to support pre-wiring of the installation (package of two). |

Specification	C4.2	C8.2/C8.2LP	C8.2HC	C10.1	C12.2
Dimensions	6.90" x 7.01" (176 x 181 mm)	**C8.2** 10.00" x 10.60" (255 x 270 mm) **C8.2LP** 10.00" x 7.00" (255 x 180 mm)	11.90" x 12.80" (303 x 320 mm)	11.90" x 12.80" (303 x 320 mm)	13.12" x 16.31" (333 x 414 mm)
Weight	6 lbs. (2.7 kg)	11 lbs. (5.0 kg)	13.2 lbs. (6.0 kg)	15.5 lbs. (7.0 kg)	27 lbs. (12.3 kg)
Frequency Response	70 Hz-20 kHz	60 Hz-18 kHz	60 Hz-18 kHz	45 Hz-150 Hz	85 Hz-18 kHz
Power Handling (@ 8 ohms)	50 W (with overload protection)	150 W (with overload protection)	150 W (with overload protection)	175 W (with overload protection)	100 W RMS
Coverage Pattern	130° conical	110° conical	75° conical	N/A	100° conical
Sensitivity	85 dB (SPL 1 W/1 m)	89 dB (SPL 1 W/1 m)	91 dB (SPL 1 W/1 m)	93 dB (SPL 1 W/1 m)	100 dB (SPL 1 W/1 m)
Input Configuration	8 ohms, 70 V, 100 V operation	8 ohms, 70 V, 100 V operation	8 ohms, 70 V, 100 V operation	8 ohms, 70 V, 100 V operation	8 ohms, 70 V, 100 V operation
70 V/100 V Power Taps	1.88, 3.75, 7.5, 15, 30	1.88, 3.75, 7.5, 15, 30	7.5, 15, 30, 60	7.5, 15, 30, 60	4, 8, 16, 32, 64
Included Accessories	Tile bridge, mounting rig	Tile bridge, mounting rig	Tile bridge, mounting rig	Tile bridge, mounting rig	Tile bridge, backing plate support, cutout template, paint sheild

EV**ID**™

EV **I**nnovative **D**esign

With the addition of the EVID flush-mount, in-wall speaker products, the EVID line now offers an audio solution for any background or foreground installation task. Sonically superior and aesthetically pleasing, EVID has no equal.

The EVID FM series of flush-mount, in-wall speaker systems are leading the next generation of high-performance background and foreground speaker system products. They are a truly innovative design that provides the performance consistency and easy installation that users and installers demand. Their unique construction and acoustic design deliver both superior sound quality and an easy, no-hassle installation experience.

Key features:

- Fully sealed enclosures provide superior sound isolation from adjacent rooms.
- Tuned, passive-radiator design ensures consistently superior performance in any installation.
- Either 70V/100V or eight Ohm operation is standard on both models. No need to buy or stock special versions.
- Shallow profile allows installation virtually anywhere.
- Secure phoenix-type pass through connectors for easy wiring and installation.
- Four-point, "quick mounting" tabs provide fast easy installation in any wall cavity.
- Transformer is mounted on the rear can surface to further enhance stiffness.
- Specially designed ribbed back can designed to eliminate flexing.

EVID FM6.2
Surface-Mount Speaker

The FM6.2 provides very high power handling and outstanding audio performance in a fully sealed, in-wall speaker system package. Perfect for installations in larger rooms, it features a six-inch woofer coupled with a six-inch passive radiator for extended bass response. A one-inch dome tweeter gives clean sound to 20 kHz. Housed in a shallow, fully sealed enclosure for consistent audio quality and superior sound isolation from adjacent rooms.

EVID FM4.2
Surface-Mount Speaker

The FM4.2 features an attractive design and compact profile. It provides excellent performance for small and mid sized rooms, and is designed to work seamlessly with all EVID subwoofers. A 4" woofer coupled with a 4" passive radiator, and a 1" tweeter provide high quality sound. The fully sealed enclosure guarantees consistent performance in any installation.

SE-42/SE-62
Surface-Mount Enclosures

The SE-42 and SE-62 External Wall-Mounting Kits are mounting frames that allow an EVID FM4.2 or FM6.2 (normally flush-mounted) loudspeaker to be externally mounted to a wall to obtain desired location and sound coverage. When using the SE enclosure no cutouts are required to mount the speaker. Packaged and sold in pairs.

Specification	FM4.2	FM6.2
Frequency Response (-3dB)	70 Hz-20 kHz	60 Hz-20 kHz
Frequency Range (-10 dB)	52 Hz-20 kHz	52 Hz-20 kHz
Axial Sensitivity	87 dB (SPL 1 W/1 m)	90 dB (SPL 1 W/1 m)
Impedance	8 Ohms nominal (transformer bypass)	8 Ohms nominal (transformer bypass)
Crossover Frequency	3.6 kHz	3.3 kHz
Rec. Highpass Frequency	70 Hz	60 Hz
HF Transducer	1" (25.4 mm)	1" (25.4 mm)
LF Transducer	4" (101.6 mm)	6.5" (165.1 mm)
Passive Radiator	4" (101.6 mm)	6.5" (165.1 mm)
Transformer Taps	70 V: 1.75, 3.75, 7.5, 15 or 30 W 100 V: 3.75, 7.5, 15, or 30 W Bypass: 8 ohms nominal	70 V: 7.5, 15, 30, or 60 W 100 V:15, 30, or 60 W Bypass: 8 ohms nominal
Connectors	4 pin phoenix-style terminals	4 pin phoenix-style terminals
Enclosure Material	Baffle: UL 94V-O rated ABS Backcan: Zinc plated steel	Baffle: UL 94V-O rated ABS Backcan: Zinc plated steel
Grille	Perforated powder coated steel with safety tether	Perforated powder coated steel with safety tether
Mounting System	Integrated toggle anchors	Integrated toggle anchors
Support Hardware	Cutout template, Paint Shield	Cutout template, Paint Shield
Dimensions (H x W x D)	13.77" x 7.42" x 3.80" (349.9 x 188.3 x 96.5 mm)	18.32" x 10.09" x 3.95" (465.4 x 256.4 x 100.3 mm)
Net Weight (each)	6.5 lbs. (2.9 kg)	12.7 lbs. (5.8 kg)
Shipping Weight (pair)	15.0 lbs. (6.8 kg)	28.4 lbs. (12.9 kg)

EV offers a number of options to make the process of designing distributed sound systems with EV speaker products easier than ever. EV supports many design tools such as ArrayShow, EASE, Acousta-Qwik, EASE Address with design files which make comprehensive system designs easier and more robust. The support files for these design tools are all available for download via the EV web site at www.electrovoice.com.
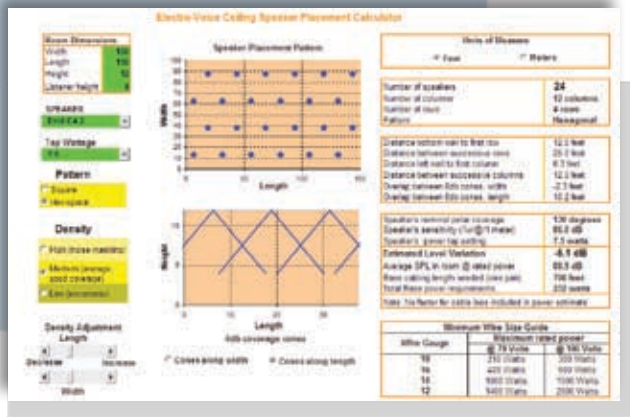
EV Ceiling Speaker Calculator

The EV Commercial audio Ceiling speaker calculator is an easy-to-use application to quickly figure out how many ceiling speakers to use in any area. It allows for basic parameters to be entered including speaker wattage tap, room dimensions, and speaker pattern density. The tool then provides an approximate SPL value the system can deliver along with the estimated speaker count and total approximate amplification power needed. The tool runs under Microsoft Excel and the resulting system design parameters can be customized and printed as needed.
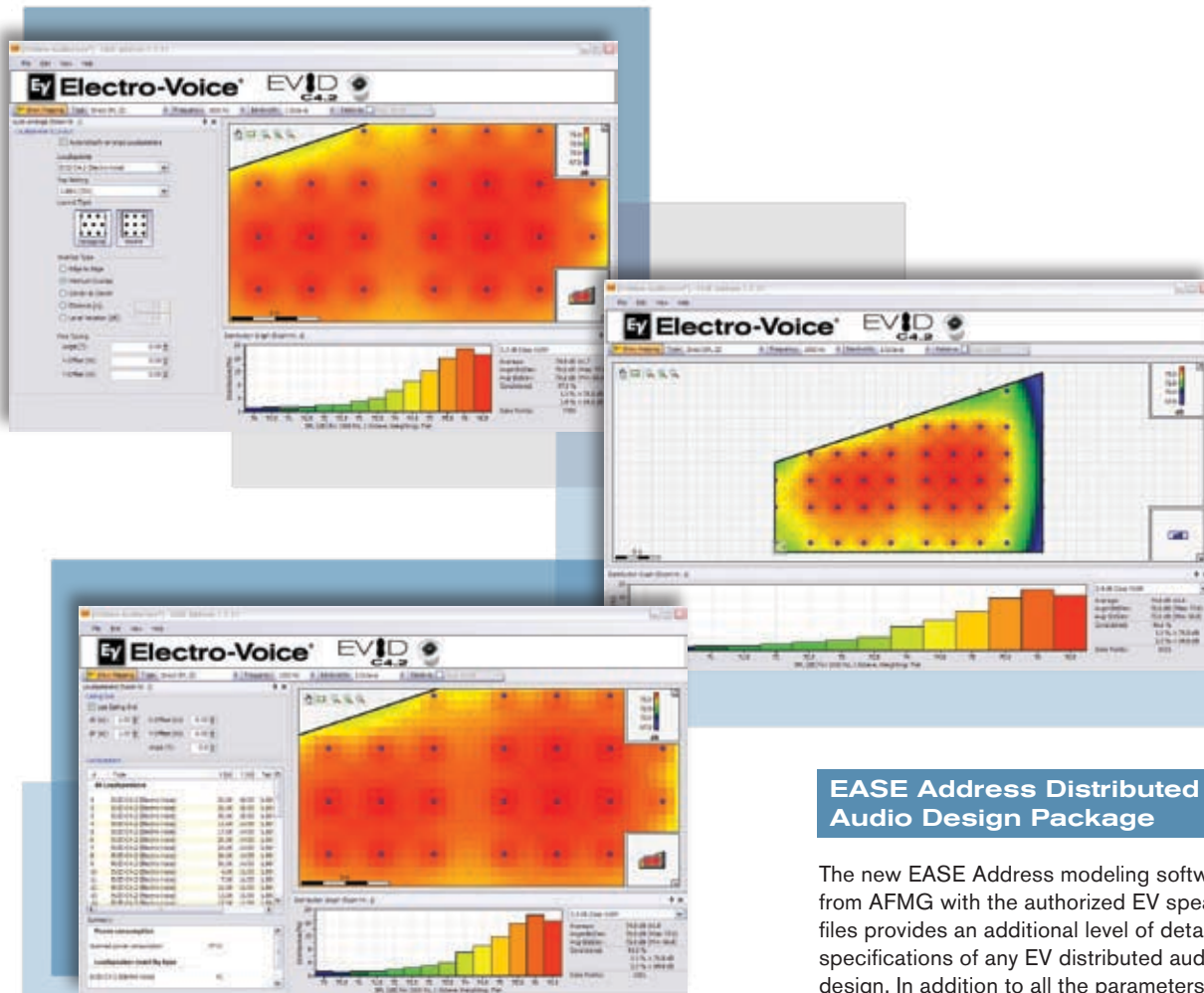
EASE Address Distributed Audio Design Package

The new EASE Address modeling software from AFMG with the authorized EV speaker .gll files provides an additional level of detail to the specifications of any EV distributed audio system design. In addition to all the parameters and values the EV Ceiling Speaker calculator provides EASE Address also provides detailed coverage maps of the room down to 0.5db of resolution. EASE Address with the authorized EV .gll files is yet another way to optimize your distributed audio system design for any installation.

EV

ZX1i

The ZX1i is the new standard of no-compromise audio performance and versatility in an easy-to-install, compact package. Finally an easy-to-install, high-performance loudspeaker system designed for the professional contractor. Whether you simply need to provide a compact sound reinforcement system, a complex background music system in a sports bar or other high-energy environment, or if you require a flexible speaker to provide fill sound in a large auditorium, the ZX1i can solve the problem. The central theme of its design is Compact Flexibility. Every aspect of the ZX1i was designed with the goal of providing a wide range of solutions in one speaker platform.

The ZX1i makes speaker installs incredibly easy with the included QuickSAM™ mounting system. The QuickSAM™ is a unique, integrated mounting bracket which is virtually foolproof. It allows the installer to simply snap the speaker onto the bracket and tighten it to the desired position. For array mounting there is an optional array bracket kit available that allows multiple units to be mounted together for a variety of configurations. All versions available in White or Black.

ZX1i-90	Incorporates the 90°x50° coverage-pattern rotatable waveguide.
ZX1i-100	Incorporates the 100°x100° coverage-pattern waveguide.
ZX1i-100t	Same as the ZX1i-100 plus a 100 W, 70 V/100 V, saturation-protected transformer featuring wattage taps at 6.5 W, 12.5 W, 25 W, 50 W and 100 W.

Sx80TB
8-Inch, 175W, Two-Way Constant-Directivity System

The Sx80TB is an eight-inch, 175 W, two-way, high-efficiency, constant-directivity speaker system for distributed sound applications requiring excellent sound reproduction. Its small size, high sensitivity and high power-handling capacity make it an excellent choice for use in studios, clubs, bars, or theaters. The high-frequency section of the model uses a molded-in 90° x 65° constant-directivity horn – a unique pattern that contributes to high intelligibility and aims speaker output where it is most useful. The low-frequency section is an eight-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 W, 3.8 W, 7.5 W, 15 W, 30 W and 60 W, allowing for easy connection to 70 V and 100 V speaker lines in distributed systems. Model comes in a black cabinet.

Sx80TW	Same as the Sx80TB but with white cabinet.

Sx80 Low-impedance versions

Sx80B	Same as the Sx80TB except no 70 V/100 V matching transformer. Low-impedance input with push terminal connectors.
Sx80W	Same as the Sx80TW except no 70 V/100 V matching transformer. Low-impedance input with push terminal connectors.

Sx80 Mounting hardware

Sx80MBB	Wall/ceiling/stand U-brackets for Sx80B, Sx80TB, Sx80PIX, Sx80PI (black).
Sx80MBW	Wall/ceiling/stand U-brackets for Sx80W, Sx80TW (white).

A 5.25-inch, 160W, 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-fequency section is a one-inch, direct-radiating, soft-dome tweeter. The system's circuits automatically reduce power delivery to drivers if threshold is exceeded, reducing the possibility of driver failure.

S-40 Low impedance versions

S-40B	Push terminal connectors with black finish cabinet and grille.
S-40W	Push terminal connectors with white finish cabinet and grille.

S-40 Mounting hardware

S-40MBB	Wall/ceiling/stand U-brackets for S-40B pair.
S-40MBW	Wall/ceiling/stand U-brackets for S-40W pair.

S-40
5.25" 160 Watt Two-Way System

Sb122 complements a wide variety of Electro-Voice products including, but not limited to ZX, Sx and even the EVID installation series. For even greater flexibility, Sb122 is available in black and white, and in permanent installation versions (PI), and 70 V/100 V transformer versions (PIX).

The Sb122 combines the advantages of a long-throw, 12-inch woofer with a strong, lightweight, composite enclosure. The large vent provides less vent compression and turbulence for increased low frequency output. In the PI version, the full-face, weatherized, stainless steel grill with hydrophobic cloth inhibits water from entering the port or coming into contact with the woofer. All versions available in White or Black.

Sb122PI	Same as the Sb122 but with the addition of a full-face stainless steel grill with hydrophobic cloth.
Sb122PIX	Same configuration as the Sb122PI but with the addition of a 70 V/100 V matching transformer for distributed audio applications.

Sb122
Subwoofer

Specification	ZX1i	Sx80 Series	S-40 Series	Sb122
Frequency Response	48-20 kHz (-10dB)	70-20,000 Hz	70-20,000 Hz	43-200 Hz (-10dB)
Power Handling (continuous)	200 W	175 W	175 W	400 W
Sensitivity (1w/1m)	94 dB/92 dB	92 dB	92 dB	99 dB
Output @ 1 m (peak)	123 dB/12 dB	120.5 dB	120.5 dB	131 dB
Coverage (H x V)	90° x 50°/100° x 100°	90° x 65°	100° x 100°	N/A
Impedance (nominal)	8 Ohms	8 Ohms	4 Ohms	8 Ohms
Dimensions (H x W x D)	17.75" x 11.12" x 10.35" (451 x 282 x 263 mm)	15.75" x 11.5" x 8.75" (400 x 292 x 222 mm)	15.75" x 11.5" x 8.75" (400 x 292 x 222 mm)	23.1" x 16.9" x 12.3" (586 x 429 x 312 mm)
Net Weight	18.5 lbs. (8.4 kg) w/o transformer 23.0 lbs. (10.4 kg) w/ transformer	16 lbs. (7.3 kg)	16 lbs. (7.3 kg)	33 lbs. (15.0 kg)
Shipping Weight	22.5 lbs. (10.2 kg) w/o transformer 27.0 lbs. (12.3 kg) w/ transformer	18 lbs. (8.18 kg)	18 lbs. (8.18 kg)	36.4 lbs. (16.5 kg)

EV Commercial Power amplifiers are designed to operate under a variety of adverse conditions without fail. Several configurations, power levels, and features are available to suit nearly any commercial application.

PA Series compact commercial rack-mount power amplifiers are designed for demanding sound reinforcement, background music, paging, and public address system installations where long-term reliability and flexibility are the ticket. These units are exceptional values, loaded with features and are easy to install in a variety of system designs. The models in the PA series provide 160 W to 450 W per channel in a compact, 2RU package.

All models have a variety of features that enable them to be customized to a wide range of demanding commercial sound and audio reinforcement applications. The PA1250T, PA2250T, and PA2400T all provide 50 V/70 V/100 V output capability using low-distortion output transformers for wide bandwidth and minimal saturation.

The Performance
Clean Reliable Flexible Power

All the PA Series amplifiers feature a low-distortion amplifier design that can be bridged for more power flexibility in multi-channel models. With an extremely low 0.1 percent THD and wide 10 Hz to 50 kHz power bandwidth, these amplifiers deliver clean, colorless sound. The superior output transformer in the "T" models effectively resists saturation down to 20 Hz and the switch-able hi-pass filter further prevents low frequency distortion in critical applications.

The Construction
Designed to Run Long and Cool

The physical chassis of PA Series amplifiers is also designed for reliability. Its ample internal cooling capacity ensures reliable operation. The PA Series runs cool and stable with a direct flow thru chassis layout. Extra-heavy-gauge chassis sheet metal with built-in, front-panel rack "ears" and full-size rear-rack supports allow for solid and secure installation.

The Connections
Fast and Easy

Rear-panel input connectors are female, three-pin, phoenix-style that provide balanced audio capability. Speaker outputs are gathered on a single phoenix-style, quick-disconnect block to facilitate pre-wiring of installations. The independent, stepped, rear-panel level controls are also easy to adjust and provide precise settings to easily balance system levels.

The Reliability
A Complete Protection Package

A comprehensive, four-way protection package in every PA Series amplifier helps protect the amp and speaker for reliable, long-term performance. The package provides complete protection for excessive temperature, audio limiters, power up delay and peak current limiters. All "T" models feature torridal output transformers for exceptional speaker isolation. This virtually eliminates the possibility of speaker damage through shorts or other anomalies, which are possible in direct-drive, 70 V/100 V designs.

1 x 250 W power amplifier

2 x 250 W power amplifier

2 x 400 W power amplifier

2 x 450 W power amplifier

4 x 150 W power amplifier

	PA1250T		PA2250T				PA2400T				PA2450L		PA4150L	
Number of Channels	1		2				2				2		4	
Load Impedance	100 V	70 V	8 Ω	4 Ω	100 V	70 V	8 Ω	4 Ω	100 V	70 V	8 Ω	4 Ω	8 Ω	4 Ω
Rated output power (rated load) THD<1%, 1kHz	270 W	270 W	135 W	270 W	270 W	270 W	215 W	430 W	430 W	430 W	220 W	450 W	100 W	160 W
Rated output power (rated load) THD<0.2%, 20Hz – 20kHz	250 W	250 W	125 W	250 W	250 W	250 W	200 W	400 W	400 W	400 W	200 W	400 W	75 W	150 W
Slew rate at 1kHz V/µs	61	41	18		61	41	25		65	46	28		16	
Frequency response -1dB, ref. 1kHz	65 Hz -20 kHz		65 Hz-40 kHz		65 Hz-20 kHz		65 Hz -40 kHz		65 Hz – 20 kHz		<10 Hz – 40 kHz		<10 Hz – 40 kHz	
Damping factor @ 100Hz / 1kHz, 4ohm	N/A		>250		N/A		>250		N/A		>250		<250	
Power bandwith THD=1%, ref. 1kHz, half power	45 Hz...>20 kHz		45 Hz...>20 kHz				45 Hz … >20 kHz				<10 Hz-50 kHz		<10 Hz-50 kHz	
Input impedance 20Hz – 20kHz, balanced	>20 kΩ		>20 kΩ				>20 kΩ				>20 kΩ		>20 kΩ	
Signal to noise ratio A-weighted	103 dB		103 dB				103 dB				104 dB		100 dB	
Input sensitivity @ rated output power or voltage, 1kHz	0 dBu (775 mV)													
THD @ rated output power MBW=80kHz, 1kHz	<0.1%													
IMD-SMPTE 60Hz, 7kHz	<0.1%													
DIM30 3.15kHz, 15kHz	<0.1%													
Crosstalk ref. 1kHz, @ 10% rated output power	<-75 dB													
Power requirements	120 V or 230 V, 50 Hz -60 Hz													
Protection	Audio limiters, high temperature, peak current limiters, turn-on delay													
Cooling	Front-to-rear													
Dimensions W x H x D, In. (mm)	19.0" (483) x 3.5" (88) x 16.0" (406)													
Weight	36.34 lbs. (16.5 kg)		51.76 lbs. (23.5 kg)				57.27 lbs. (26 kg)				36.34 lbs. (16.5 kg)		39.65 lbs. (18 kg)	

Contractor Precision Series
Two-Channel Models CPS2.4, CPS2.9, and CPS2.12

- Class-H design (CPS2.9 and CPS2.12) for increased efficiency
- First choice for cost-effective installation solutions
- Optional remote control via IRIS-Net

New CPS two-channel amplifiers provide flexibility and reliable audio performance for the professional installation business. Designed for contractors, CPS two-channel amplifiers feature 2RU constructions, Phoenix-type connectors for inputs and outputs, pre-programmable power-on delay, easy power-on remote via contact enclosure, rear level controls, and a switchable, 50 Hz, high-pass filter (HPF).

Various optional signal processing modules include 500 Hz and 800 Hz crossovers for cinema systems as well as the XHP Variable high-pass module for ZX, Sx, and EVID loudspeakers.

Like the CPS multi-channel amplifiers, CPS two-channel models also include a module slot for the RCM-810 remote-control module, enabling networking services for remote system diagnostics and control via IRIS-Net software.

CPS2.x rear view
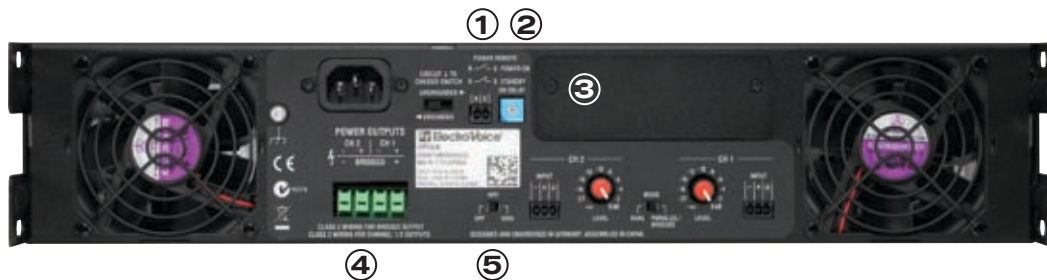
1. Remote power-on contact
2. Programmable power-on timer
3. Module slot for RCM-810
4. Output connectors
5. High-pass filter (HPF)

Contractor Precision Series
Multi-Channel Models CPS4.5, CPS8.5, and CPS4.10

The new four- and eight-channel CPS amplifiers from Electro-Voice feature groundbreaking Class-D technology for maximum amp efficiency and minimized heat dissipation in 19-inch racks.

Each channel individually provides transformerless, switchable output characteristics, which enable specific channels to achieve maximum drive. Power into two Ohms, four Ohms, 70 V, or 100 V line – no transformers are required. In Hi-Z operation (70 V or 100 V), a 50 Hz high-pass filter (HPF) provides protection against loudspeaker transformer saturation. Amplifier channels can also be bridged in pairs for double output power.

Each contractor-friendly, multi-channel CPS amplifier also features Phoenix-type connectors for inputs and outputs, pre-programmable power-on delay, easy power-on remote via contact closure, and rear level controls.

A module slot for the RCM-810 remote control module provides control network functionality, allowing for remote system diagnostics and control via IRIS-Net software. In addition, using the RCM-810's Variable Load Drive feature can tailor the amplifier's output power to match every load from two Ohms to 10 Ohms in steps of 0.1 Ohms.

- Class-D design for high-efficiency and low heat dissipation
- Flexible matching for Low-Z and High-Z applications
- Optional remote control via IRIS-Net
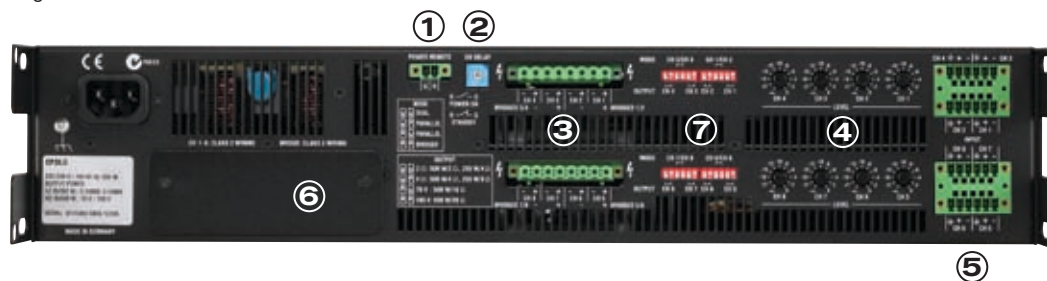- Four- and eight-channel designs in 2RU chassis

CPS8.5 rear view

1. Remote power-on
2. Programmable power-on delay
3. Speaker outputs
4. Level controls
5. Channel inputs
6. Module slot for RCM-810
7. Power mode switches

	CPS2.4II	CPS2.6II	CPS2.9	CPS2.12	CPS4.5	CPS4.10	CPS8.5
Maximum Midband Output Power THD = 1%, 1kHz	2 x 650 W/2 Ω 2 x 450 W/4 Ω 2 x 270 W/8 Ω	2 x 900 W/2 Ω 2 x 600 W/4 Ω 2 x 380 W/8 Ω	2 x 1250 W/2 Ω 2 x 900 W/4 Ω 2 x 550 W/8 Ω	2 x 1800 W/2 Ω 2 x 1200 W/4 Ω 2 x 750 W/8 Ω	4 x 500 W/2 Ω * 4 x 500 W/4 Ω * 4 x 500 W/70 V * 4 x 500 W/100 V *	4 x 1000 W/2 Ω * 4 x 1000 W/4 Ω * 4 x 1000 W/70 V * 4 x 1000 W/100 V *	8 x 500 W/2 Ω * 8 x 500 W/4 Ω * 8 x 500 W/70 V * 8 x 500 W/100 V *
Rated Output Power THD < 0.3%, 20 Hz - 20kHz	2 x 400 W/4 Ω 2 x 200 W/8 Ω	2 x 500 W/4 Ω 2 x 250 W/8 Ω	2 x 800 W/4 Ω 2 x 400 W/8 Ω	2 x 1100 W/4 Ω 2 x 550 W/8 Ω	4 x 450 W/2 Ω * 4 x 450 W/4 Ω * 4 x 450 W/70 V * 4 x 450 W/100 V *	4 x 900 W/2 Ω * 4 x 900 W/4 Ω * 4 x 900 W/70 V * 4 x 900 W/100 V *	8 x 450 W/2 Ω * 8 x 450 W/4 Ω * 8 x 450 W/70 V * 8 x 450 W/100 V *
Maximum Bridged Output Power THD = 1%, 1 kHz	1 x 1300 W/4 Ω 1 x 900 W/8 Ω	1 x 1800 W/4 Ω 1 x 1200 W/8 Ω	1 x 2500 W/4 Ω 1 x 1800 W/8 Ω	1 x 3600 W/4 Ω 1 x 2400 W/8 Ω	2 x 1000W/4Ω * 2 x 1000W/8Ω * 2 x 1000W/140V * 2 x 1000W/200V *	2 x 2000W/4Ω * 2 x 2000W/8Ω * 2 x 2000W/140V * 2 x 2000W/200V *	4 x 1000 W/4 Ω * 4 x 1000 W/8 Ω * 4 x 1000 W/140 V * 4 x 1000 W/200 V *
Maximum RMS Voltage Swing THD = 1%, 1 kHz, per Channel	55.3 V	65.1 V	78.8 V	90.6 V	100 V	100 V	100 V
Power Bandwidth THD = 1% ref.1 kHz, half power @4 Ohms load	10 Hz - 30 kHz	10 Hz - 30 kHz	10 Hz - 30 kHz	10 Hz - 30 kHz	10 Hz - 25 kHz ** 50 Hz - 25 kHz **	10 Hz - 25 kHz ** 50 Hz - 25 kHz **	10 Hz - 25 kHz ** 50 Hz - 25 kHz **
Voltage Gain, ref. 1 kHz	32.0 dB	32.0 dB	32.0 dB	32.0 dB	32 dB (2 Ω/4 Ω mode) 33 dB (70 V mode) 36 dB (100 V mode)	32 dB (2 Ω/4 Ω mode) 33 dB (70 V mode) 36 dB (100 V mode)	32 dB (2 Ω/4 Ω mode) 33 dB (70 V mode) 36 dB (100 V mode)
THD at rated output power, MBW = 80 kHz, 1 kHz	< 0.03%	< 0.03%	< 0.03%	< 0.03%	< 0.05%	< 0.05%	< 0.05%
IMD-SMPTE, 60 Hz, 7 kHz	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.05%	< 0.05%	< 0.05%
DIM30, 3.15 kHz, 15 kHz	< 0.05%	< 0.05%	< 0.05%	< 0.05%	< 0.02%	< 0.02%	< 0.02%
Maximum Input Level	+21 dBu	+21 dBu	+21 dBu	+21 dBu	+21 dBu	+21 dBu	+21 dBu
Crosstalk, ref. 1 kHz, at rated output power	< 80 dB	< 80 dB	< 80 dB	< 80 dB	< 80 dB	< 80 dB	< 80 dB
Frequency Response, ref. 1 kHz	10 Hz - 40 kHz (+/- 1 dB)	10 Hz - 40 kHz (+/- 1 dB)	10 Hz - 40 kHz (+/- 1 dB)	10 Hz - 40 kHz (+/- 1 dB)	15 Hz - 30 kHz (+/- 1 dB) **	15 Hz - 30 kHz (+/- 1 dB) **	15 Hz - 30 kHz (+/- 1 dB) **
Input Impedance, active balanced	20 kΩ	20 kΩ	20 kΩ	20 kΩ	20 kΩ	20 kΩ	20 kΩ
Damping Factor, 1 kHz, 8Ω	> 300	> 300	> 300	> 300	> 240	> 240	> 240
Slew Rate	25 V/us	26 V/us	27 V/us	30 V/us	28 V/us	28 V/us	28 V/us
Output Noise, A-weighted	< -71 dBu	< -71 dBu	< -71 dBu	< -71 dBu	< -66 dBu	< -66 dBu	< -66 dBu
Output Stage Topology	Class AB	Class AB	Class H	Class H	Class D	Class D	Class D
Power Consumption, 1/8 max.output power @4Ω	550 W	700 W	700 W	850 W	490 W	840 W	930 W
Power Requirements	240 V, 230 V, 120 V or 100 V; 50 Hz or 60 Hz(factory configured)				220-240 V, 50-60 Hz or 120 V,50 - 60 Hz or 100 V, 50-60 Hz		
Protections	Audio Limiters , Temperature, DC, HF Short Circuit, Peak Current Limiters, Inrush Current Limiters, Turn-on delay						
Cooling	Front-to-rear, 3-stage fans				Front-to-rear, continously variable fans		
Ambient Temperature Limits	+5° C - +40° C (40° F - 105°F)						
Safety Class	I						
Dimensions (W x H x D), mm	483mm x 88.1mm x 421.5mm (19" x 34.7" x 16.6")						
Weight	27.8 lbs. (12.6 kg)	32.8 lbs. (14.8 kg)	36.1 lbs. (16.3 kg)	39.2 lbs. (17.7 kg)	24.6 lbs. (11.1 kg)	24.6 lbs. (11.1 kg)	30.8 lbs. (13.9 kg)
Optional Accessories	Two-Way internal X-Over cards, 24 dB, LR, XHP-5 for 500 Hz / XHP-8 for 800 Hz **(2 channel amps only)** RCM-810 IRIS-Net Control & Supervision Module Rear-Rackmount Kit RMK-15						

Notes
* Variable Load Drive provides any power between 100 W to 500 W/1000 W programmable in 1 W steps
** When High-Z modes (70 V or 100 V) are activated, a Hipass-Filter @ 50 Hz is automatically inserted to avoid speaker X-Former saturation

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