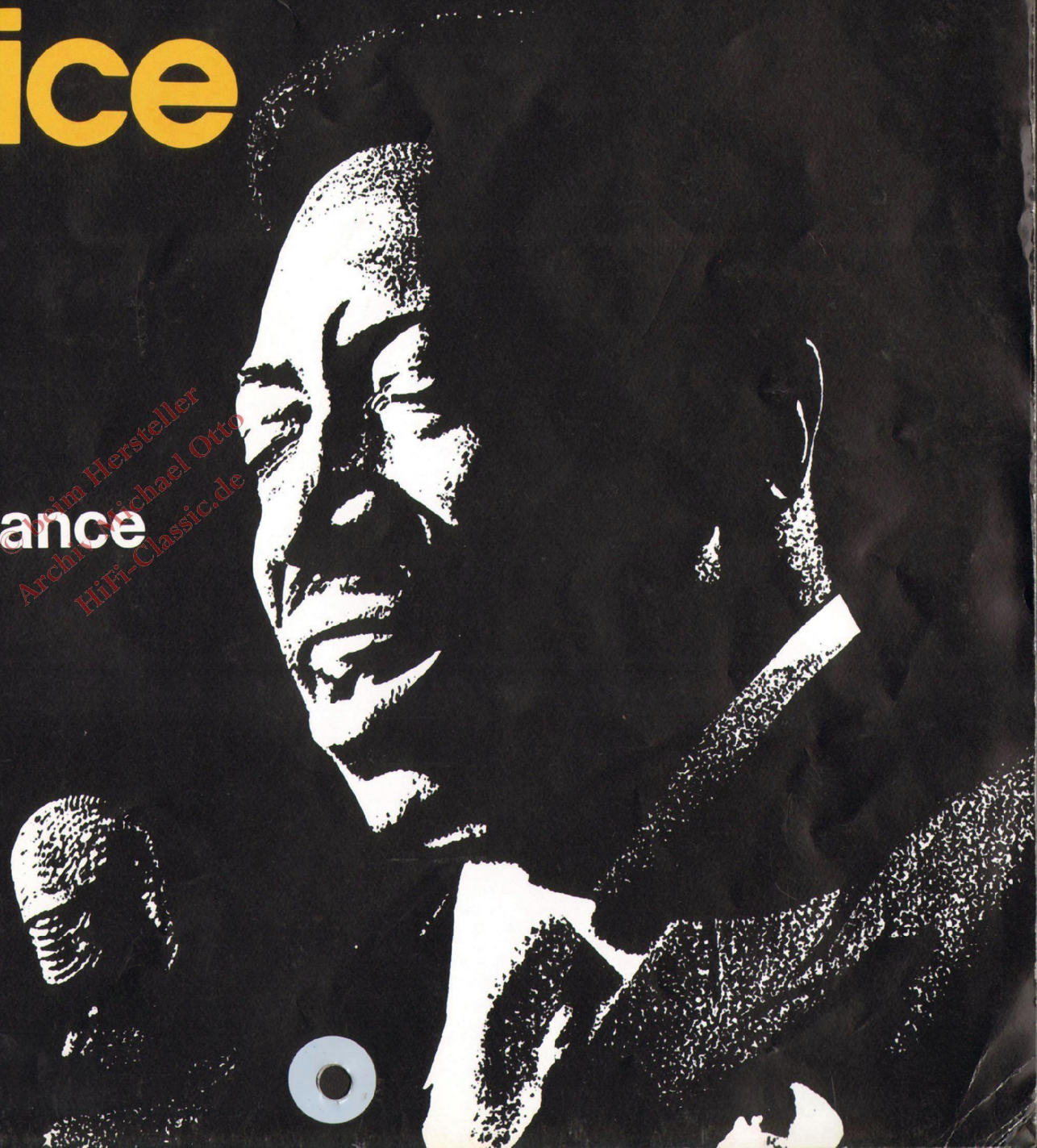


Electro-Voice

Professional equipment
for professional performance

Power & Grace



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mikes



Let's talk about mikes... As the leading manufacturer of microphones for the broadcast, recording, and communications industries, you expect E-V mikes to be the best. They are.

Whether your music is "get down" boogey, rock, or blues, E-V has the mike to help you play your music with **power...and grace**. We thought you might like to know why, and what that means for you, the musician.

Mostly, E-V means engineering with care and a purpose. E-V has been doing both for more than 49 years. You start with a problem. A problem not just on paper, but in the field — where the musicians themselves experience it. And, you solve it.

Take high frequency distortion... Using the technology of our new laser holographic camera, we successfully photographed a moving mike diaphragm. It was no ordinary photography either, it was three dimensional. The camera enabled us to photograph the diaphragm and "see" movement as little as five millionths of an inch.


We found that at high frequencies, ordinary microphone diaphragms tended to "break up". Instead of moving as they should, like a piston, their movement segmentized — causing distortion.

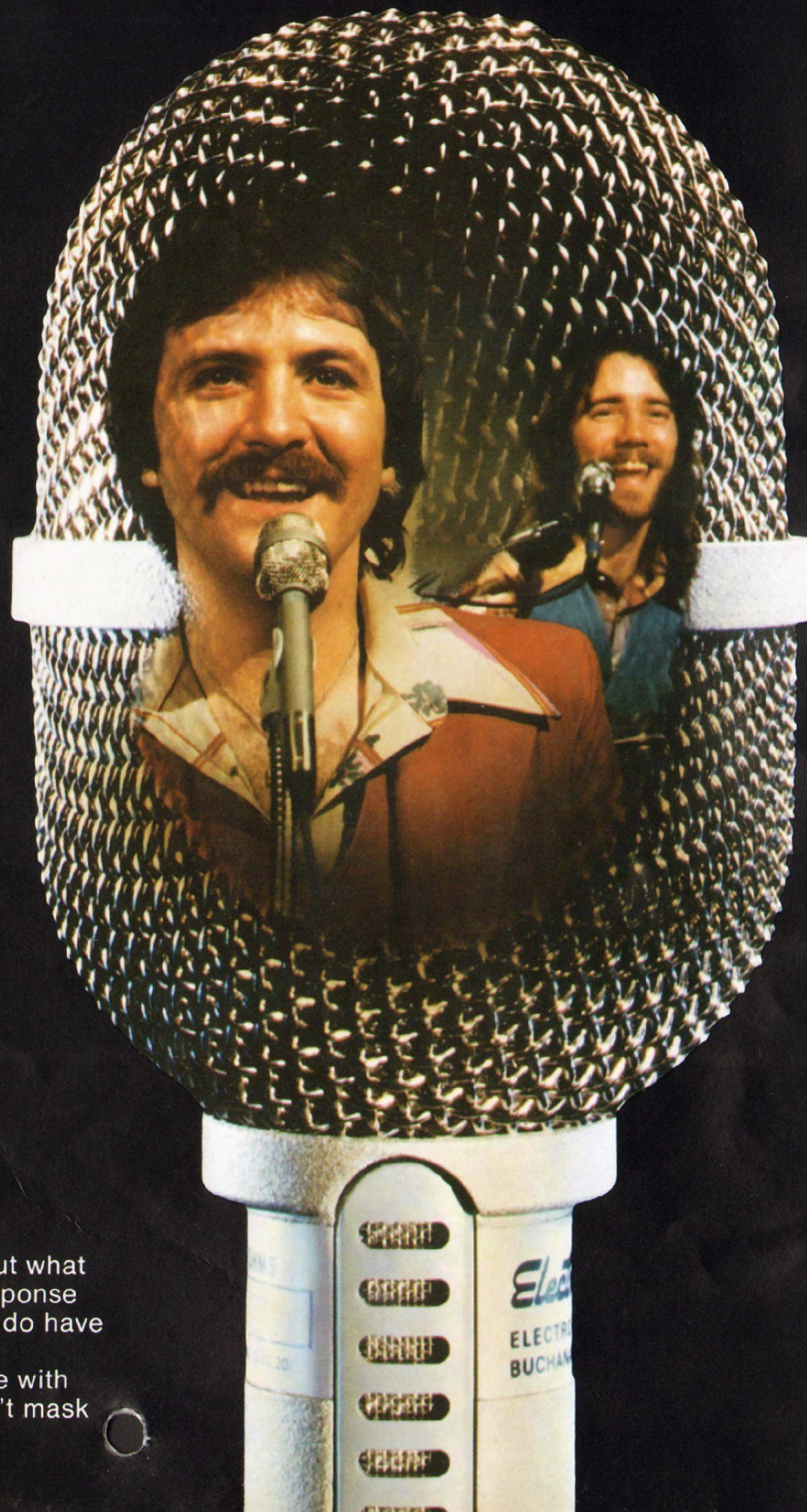
We found a solution, the Volumetric™ diaphragm — a polystyrene disc laminated to the diaphragm. That simple solution means an E-V single-D mike which has smoother, wider response than any you've ever heard.

So much for 'little problems'... there are big ones, too.

Just about every manufacturer offers cardioid mikes of the single-D variety with their inherent feedback limiting characteristics. So does E-V — some of the best for that close-in bass sound.

But, E-V didn't stop there. Getting "bass boost" is simple. But what about the musician who wants clear, continuous frequency response at any working distance? After all, single-D mikes (even ours) do have a tendency to "muddy up" the clarity of your sound.

At E-V, we did the logical thing: long ago we invented a mike with the feedback eliminating quality of a single-D but which doesn't mask response. By the way,  is an exclusive with us.



systems

Our patented Variable-D[®] and Continuously Variable-D[®] mikes use multiple porting along the mike case to deliver uniform frequency response, and to limit handling and breath popping noises.

That's good for you, the musician. It means you can play with **power... and grace**, because E-V has the mike to meet your need.

If you play horn, use one of our Variable-D mikes. Your audience will hear what you "truly" play. If you're after a deeper voice sound for gutsy rock, try a single-D. Either way, whether it's for a soft lyrical rift — or "get down" boogey, rock or blues... E-V mikes can handle it with **power... and grace**.

We stand behind our products too, with a warranty considered the best in the business (see box). Why you can even run your van over an E-V Professional mike, and as long as it is within two years from purchase — if it doesn't work, we'll fix it free!

Our speakers and speaker systems offer the same care in engineering our mikes do. And, as with our mikes, we start in the field with problems confronting musicians.

One of those problems is finding speakers which can withstand high power loads for extended time periods — and still deliver smooth response.

To be sure our speakers meet those requirements, they are tested under continuous power many times their normal use. Also, we utilize high-speed photography to document the physical change of speakers under high power stress. The results have been rewarding. E-V speakers are famous not only for their smooth response, wide dispersion, and power handling capabilities, but also their ruggedness. Ruggedness that is backed by a five-year guarantee covering defects in material and workmanship.

We also incorporate these speakers into enclosures for speaker systems.



Eliminator

For musicians looking for speaker systems with excellent power handling abilities, wide, uniform dispersion, and smooth response, our Eliminator is the choice. A system designed for efficiency, the Eliminator can handle 100 watts RMS input and produce 125 dB sound pressure level at four feet.

As impressive as its power handling ability, is the Eliminator's response from 45 to 14,000 Hz. For the musician, that means Eliminator can take it — and dish it out. Because of the speaker's efficiency, you get high sound volume and smooth frequency response requiring an amp of lower power than is needed with less efficient speakers. Besides the Eliminator, we have many other speakers and speaker systems too. Each has its own unique characteristics; each has been thoroughly designed and tested with you, the musician, in mind.

Incidentally, each product has a detailed specification sheet we'll be happy to send you for the asking. Meanwhile, browse through our brochure. We've included the basic specs for each of our music products. And our dealers are always more than happy to let you hear the real thing. Go ahead and listen... it'll be clear that E-V will let you make your kind of music with **power... and grace.**



Warranty (Limited)

Microphones — Electro-Voice Professional Microphones are guaranteed unconditionally against malfunction from any cause for a period of two years from date of original purchase. Also, all E-V mikes are guaranteed without time limit against malfunction due to defects in acoustic system (this portion of warranty does not cover malfunction due to abuse or operation at other than specified conditions). Finish, appearance items, cables, cable connectors, and switches are not covered by warranty.

Speakers & Speaker Systems — Electro-Voice loudspeakers, speaker systems and accessories are guaranteed for five years from date of original purchase against malfunction due to defects in workmanship and materials. Warranty does not cover finish or appearance items or malfunction due to abuse or operation at other than specified conditions.

In the event of malfunction covered by warranty, the unit will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper E-V service facility. Unit will be returned prepaid. Repair by other than E-V or its authorized service agencies will void this guarantee.

Stacks



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Last but not least we are bringing you the sound to the stage. The same engineering care that EV uses for our PA systems and speaker systems is applied to the products that are built for the stage. The stacks are reflex cabinets and contain our powerful 100 watts RMS speakers. Even the smallest stack gives the musician the guitar sound he needs.

Even for monitoring purposes we have the product built with you, the musician, in mind. An easy transportable cube unfolds to two monitor speaker systems angled at 45°. Or use our all weather line radiators, directional loudspeakers with their smooth frequency response, helping you to eliminate one of the major problems on stage, feedback!

Anything that you, the musician might need on stage we will happily try to help you with our products.



Electro-Voice Microphones

Only Electro-Voice offers all three basic types of dynamic microphones most needed by musicians: omnidirectional, Variable-D, and single-D cardioids. Choose an omnidirectional for recording or where feedback from a sound system is no problem. You'll get most accurate reproduction and minimum pickup of breath noises at lowest cost. Cardioid mikes offer rejection of unwanted sound to help control feedback.

Professional Mikes

E-V Professional Microphones are built to the most rigid standards of performance and carry the famous E-V two-year warranty. Furnished with 15' cable and stand clamp. "P" versions have 25' cables with professional 3-pin connectors at both ends.

Omnidirectional

635A — The mike most often used by musicians on TV. For hand or stand use. Omnidirectional. Response 80-13k Hz. Output -55 dB. Lo-Z. Size 6" long, 1 1/4" dia. (1/4" shank dia.) Wt. 9.5 oz. **635AP** — With connector.

Single-D Cardioid

DS35 — A mike for the professional who desires bass boost when used up close. Cardioid. Response 60-17k Hz. Output -60 dB. Lo-Z. Size 7 1/2" long, 1 1/4" dia. (1/4" shank dia.) Wt. 9.2 oz.

DS35P — With connector.

Variable-D® Cardioid

RE15 — A Super-cardioid with a high degree of directional control (greatest rejection at 150°), bass-tilt switch for flat or rolled-off low end to control reverberation. Response 80-15k Hz. Output -56 dB. Lo-Z. Size 6 7/8" long, 1 1/8" dia. (1/4" shank dia.) Wt. 6 oz.

RE15P — With connector.

RE16 — Similar to the RE15 with built-in super "pop" filter. Size 7 7/8" long, 1 1/4" dia. Wt. 8 oz. **RE16P** — With connector.

RE10 — Like the RE15 and RE16, has excellent directional control, but it has somewhat broader tolerances for less exacting applications. Super-cardioid. Response 90-13k Hz. Bass tilt switch. Output -56 dB. Lo-Z. Size 6 7/8" long, 1 1/8" dia. (1/4" shank dia.) Wt. 6 oz.

RE10P — With connector.

RE11 — Similar to the RE10, but with built-in super "pop" filter. Size 7 7/8" long, 1 1/4" dia. Wt. 6 oz. **RE11P** — With connector.

Performer Microphones

Performer mikes are built to the highest performance standards. But they are for slightly less exacting applications and so are somewhat



less expensive. They come furnished with 15' cables and stand clamps or mounting studs. "P" versions have phone plug end of cable.

Omnidirectional

631A — An omnidirectional great for semi-professional recording and P.A. Use hand-held. Good for close-up work. On-off switch with unique removable actuator. Response 80-13k Hz. Output -55 dB. Impedance must be specified. Lo-Z is **631AL**; Hi-Z is **631AH**. Size 6" long, 1 1/4" dia. (1/4" shank dia.) Wt. 6 oz.

631AP — Hi-Z with phone plug.

Single-D Cardioid

626A — Emphasizes low frequencies when used up close. Integral cable. On-off switch. Response 70-12k Hz. Output -58 dB. Selectable Hi/Lo-Z. Size 6 7/8" long, 1 1/4" dia. (1/4" shank dia.) Wt. 8.5 oz.

626AP — With phone plug.

627C — Exceptional for stage and nightclub due to minimum feedback qualities. Single-D cardioid. On-off switch. Response 60-13k Hz. Output -58 dB. Selectable Hi/Lo-Z. Size 6 7/8" long, 1 1/4" dia. (1/4" shank dia.) Wt. 7.5 oz. **627CP** — With phone plug.

670 — This mike offers linear response at all sound pressures and maximum feedback resistance. Top Brass anodized finish. Cardioid. On-off switch. Selectable Hi/Lo-Z. Response 60-14k Hz. Output -60 dB at Lo-Z; -61 dB at Hi-Z. Size 7 1/2" long, 1 1/2" dia. (1" shank dia.) Wt. 6 oz. **670A** — With non-reflecting gray painted finish. **670P** — With phone plug.

670V — Same as 670, but with volume control instead of on-off switch. **670VP** — With phone plug.

671 — The "singer's mike", popular ball-shaped mike that's great for hand-held use. Features close-in bass boost, built-in super blast filter. Response 60-14k Hz. Selectable Hi/Lo-Z. Output -60 dB at Lo-Z; -61 dB at Hi-Z. Size 6.19" long, 1.97" max. dia. Satin chrome finish. **671W** — Satin white painted finish. **671P** — With phone plug.

Variable-D® Cardioid

660 — A super-cardioid E-V patented Variable-D mike which eliminates bass boosting for accurate response close in or at any working distance, on or off axis; allows minimum feedback and maximum sound separation. Response 90-13k Hz. Selectable Hi/Lo-Z. Output -56 dB. Size 6 1/2" long, 1 1/2" max. dia. Wt. 10.5 oz. **660A** — Gray painted finish. **660P** — With phone plug.

660SP — Same as 660, but with 15' cable which has on-off switch built into the connector at the mike end, and phone plug on the equipment end.

661 — A super-cardioid stand-held mike which is exceptional for P.A. use or instrument miking. Response 90-13k Hz. Selectable



Hi/Lo-Z. Output -56 dB. On-off switch and impedance switch in mounting stud. Size 7 7/8" long, 1 1/2" max. dia., Wt. 18.5 oz. **661A** — Gray painted finish. **661P** — With phone plug.

664 — The most popular P.A. mike, this durable mike offers a high degree of resistance to mechanical shock and minimizes proximity effect. Variable-D cardioid. Response 60-15k Hz. Selectable Hi/Lo-Z. Size 7 1/4" long, 1 1/4" dia. Mounting stud has on-off switch. Wt. 1 lb, 12 oz. **664P** — With phone plug.

Stand-mounting clamps

301 — Stand clamp for 1" to 1 1/4" dia. mikes. Black. Allows snap-out use. **301A** — Gray.

310 — Stand clamp for 3/4" dia. mikes. Black. Slip-out use. **310A** — Gray.

312 — Stand clamp for 1/4" dia. mikes. Black. Snap-out use. **312A** — Gray.

358 — Stand clamp for 660, 671 tapered shank mikes. Black. Slip-out use.

340 — Security clamp for 3/4" dia. cylindrical shank mikes. Allen screws lock mike and connector in place.

342 — Security stud-mount adapter. Converts studless mikes with 1/4" cylindrical barrel and 3-pin connector to stud-type with on-off switch. Allen screw holds mike in position.

Windscreens

Acoustifoam material is transparent to normal sounds, but stops sudden air blasts, and voice "P" and "T" pops. Protects against mechanical shock, pickup of dust.

314 — For RE10, RE15.

314E — For 631A, 635A; pop protection on RE10-15, 66-1.

337 — For 626A, 627C.

351 — For 670, 671; pop protection on DS35, RE11, RE16.

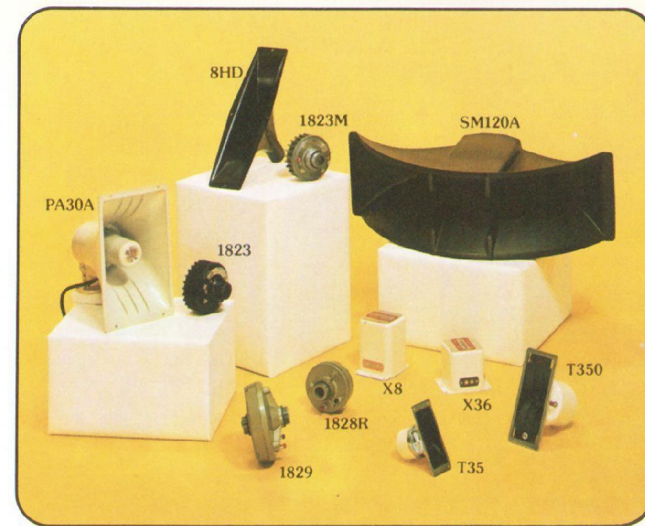
360 — For 660, 661.

Electrical Accessories

380 — Attenuator for use in mike line. Reduces signal 10 dB. Prevents overloading, doesn't affect response. Mates with 3-pin professional connectors.

381 — Switch connector and cable. Converts mikes with no switch into switch type. Fits 3-pin connector. Has 15' cable.

502C — Transformer for matching low impedance mikes to high impedance amp inputs. A3F-type 3-pin input connector, MC1M output connects directly to amp. Matching A3M cable connector furnished.



502CP — Same as 502C, but with 1/4" phone plug output.

513A — Low frequency sharp cutoff filter for use with Lo-Z mikes. Eliminates unwanted noise below 100 Hz. A3-type connectors.

Miscellaneous

411 — Floor mount "mike mouse" for extra-range pickup on stage. For RE10, RE15 mikes.

422 — Low profile desk stand which accepts E-V stand clamps into which mike is placed.

87285 — 15' Performer-type cable. Phone plug on equipment end.

88684 — 25' Professional-type cable. Professional 3-pin connectors on both ends.

456 — Tough, molded carrying case with universal foam plastic insert, holds mike and cable. For all mikes in this brochure.

Speakers

Electro-Voice separate speakers offer the ultimate in quality sound reproduction and power handling ability.

EVM-12L — Its wide effective range, clarity, and ability to handle high power inputs make this 12" speaker a favorite of lead guitar players and vocalists. Power handling capacity: 100 watts continuous sine wave (long term average). SPL 117 dB at 4', 100 watts input. Impedance 8 ohms. Response 52-6k Hz. Size 12 1/4" dia., 6" depth. Wt. 19 lb.

EVM-15L — For gutsy bass and voice P.A., this full-range 15" guitar speaker offers efficient and accurate power handling, plus the durability for which E-V is well-known. Power handling capacity: 100 watts continuous sine wave (long term average). SPL 118 dB at 4', 100 watts input. Impedance 8 ohms. Response 39-5.5k Hz. Size 15 1/2" dia., 7" depth. Wt. 21 lb.

EVM-15B — Mainly for bass, with slightly lower frequency response than the 15L. Power handling capacity: 100 watts continuous sine wave. SPL 118 dB at 4', 100 watts input. Impedance 8 ohms. Response 39-4k Hz. Size 15 1/4" dia., 7" depth. Wt. 21 lb.

EVM-18B — Built to really get down. Response 24-4k Hz. This 18" speaker is ideally suited for those wanting a big bass sound. Power handling capacity: 100 watts continuous sine wave. SPL 117 dB at 4', with full input. Impedance 4 ohms. Size 18" dia., 8" depth. Wt. 22 lb.

30W — Called the "super woofer" because its good strong response goes down to 16 Hz. Such deep bass makes possible recreation of the awe inspiring qualities of instruments like pipe organ and bass drum. Suggested upper frequency crossover point: 100 Hz. Power handling capacity: 100 watts continuous sine wave. SPL 93.5 dB at 4', full input. Impedance 8/16 ohms. Size 29 3/4" dia., 13 3/4" depth. Wt. 34 lb.

Speaker Systems

Eliminator 1A — A high powered, wide-range system. Uses 15" EVM-15B bass driver in horn-loaded system, 8" midrange horn, and two horn tweeters. Power capacity: 100 watts (28.3 volts RMS, shaped random noise input). Response 45-14k Hz. SPL 125 dB at 4', full input. Dispersion 85° nom. (1-16k Hz octave bands). Size 37 1/2" H, 22 1/2" W, 23 1/4" D. Wt. 120 lb.

Eliminator 2A — Similar to Eliminator 1A, but less tweeters and with heavier crossover to withstand more midrange power. Response 45-9.5k Hz. Dispersion 85° nom. (1-4k Hz octave bands). Wt. 114 lb.

Eliminator 3 — Vented 2-way speaker system with EVM 12 L. Portable and stackable. Power capacity: 100 watts, response: 63-18000 Hz. SPL 117 dB at 4', full input, impedance 8 ohms, size: 14 1/2" x 14" x 23 1/4".

Eliminator 4 — Similar to Eliminator 3 but with EVM 15 L. Response: 83-18000 Hz. SPL 118 dB at 4', full input, impedance 8 ohms, size: 19 1/4" x 17 1/4" x 26".

LR4B — All weather Line Radiator directional loudspeaker for club P.A. or stage monitor. Power capacity: 90 watts. Response 90-15k Hz. SPL 115 dB at 4', full input. Dispersion 60° vertical, 120° horizontal. Impedance 8 ohms. Size 48" H, 9 3/4" W, 7 1/2" D. Wt. 40 lb.

LR7B — All weather Line Radiator directional loudspeaker for P.A. or monitor. Power capacity: 90 watts. Response 70-15k Hz. SPL 115 dB at 4', full input. Dispersion 60° vertical, 110° horizontal. Impedance 12 ohms. Size 62.2" H, 12" W, 12" D. Wt. 62 lb.

P.A. Speakers, Horns & Drivers

P.A. Speaker

PA30A — Small P.A. speaker designed for maximum reliability and all-weather use. Super for midrange addition to column speakers. Power capacity: 30 watts. Impedance 8 ohms. SPL 125 dB at 4', full input. Dispersion 120° horizontal, 90° vertical. Size 11" H, 6 1/2" W, 8 1/2" D., Wt. 5 lb, 9 oz.

Horns

8HD — Separate midrange horn. Dispersion 120° horizontal, 90° vertical. Low-end crossover frequency: 800 Hz. Size 15" H, 4 1/2" W, 8 1/4" D. Wt. 2 lb, 10 oz. Use with drivers listed below.

SM120A — Midrange horn only. As used in E-V Sentry III and IV. New sectoral design for wide dispersion, smooth response, high efficiency. Use with drivers below. Recommended crossover frequencies: low 400 Hz; high 3500 Hz. Dispersion 130° nom. Size 8 1/2" H, 26 1/2" W, 14 1/4" D. Wt. 11 lb, 9 oz.

Drivers

1823 — A 90-watt driver for use with separate horns. Response 200-6.4k Hz. Power capacity: 90 watts continuous sine wave. SPL

133 dB at 4', full input. Impedance 8 ohms. Size 4 1/4" dia., 3 1/8" D. Wt. 4 lb, 14 oz.

1823M — A 60-watt driver for use with separate horns. Response 170-11k Hz. Power capacity: 60 watts. SPL 128 dB at 4', full power. Impedance 8 ohms. Size 4 1/4" dia., 3 1/8" D. Wt. 5 lb.

1829 — A 60-watt driver for use with separate horns. Response 140-11k Hz. Power capacity: 60 watts. SPL 127 dB at 4', full input. Impedance 16 ohms. Size 5 1/8" dia., 4 1/8" D. Wt. 7 lb.

1828R — A 30-watt driver for use with separate horns. Response 170-10k Hz. Power capacity: 30 watts. SPL 120 dB at 4', full input. Impedance 8 ohms. Size 4" dia., 2 1/8" D. Wt. 4 1/4 lb.

Tweeters

T35 — High frequency driver and horn. Power capacity: 6 watts continuous sine wave. Impedance 8 ohms. Response 3.5-20 kHz. Size 7 1/4" H, 2" W, 3 3/32" D. Wt. 2 1/4 lb.

T350 — Deluxe high frequency driver and horn. Power capacity: 8 watts continuous sine wave. Impedance 8 ohms. Response 3.5-23k Hz. Size 7 1/4" H, 2 1/4" W, 4 1/8" D. Wt. 7 lb.

Crossovers

X8 — Crossover network. Crossover frequency: 800 Hz. Impedance 8 ohms. Attenuation rate: 12 dB per octave. Size 4 3/4" H, 4 1/2" W, 3 3/4" D. Wt. 4 lb.

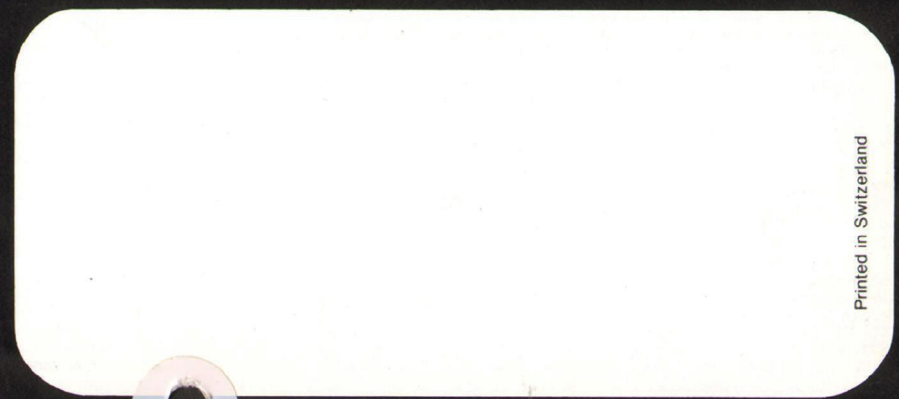
X36 — Crossover network. Similar to X8, crossover frequency: 3500 Hz. 3 1/2" H. Wt. 1 1/2 lb.



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**Your dealer
can advise you further:**

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