

ZX5 ZXAS

The Most Versatile Speaker in the World



CAUTION: DURING INSTALLATION TO A
2 TO 10 TYP. USING ITEMS 14 AND 15,
ADHESIVE IS PERMITTED ON THE SCREWS
DRIVE/CONTROL TEST INSTRUMENT
ELECTRIC STRUCTURE DRAWING FOR THE
THE AIR GAP
PRIORITY: A POSITIVE VOLTAGE APPLIED TO THE
POSITIVE PRESSURE AT THE EXIT OF THE U





A unique combination of

- No-compromise design
- Elegant enclosure with full-face grille for clean, professional look
- All new DVX3150 15-inch woofer offers 500 watts (AES) continuous power handling
- All new ND2, 2-inch voice coil, 1-inch exit neodymium driver
- 60° x 60° or 90° x 50° coverage pattern
- Adjustable monitor angle (45° or 55°)
- Integral rigging points and inserts for unlimited flying options
- Full line of accessories for all types of installations
- Switch for optional bi-amp operation

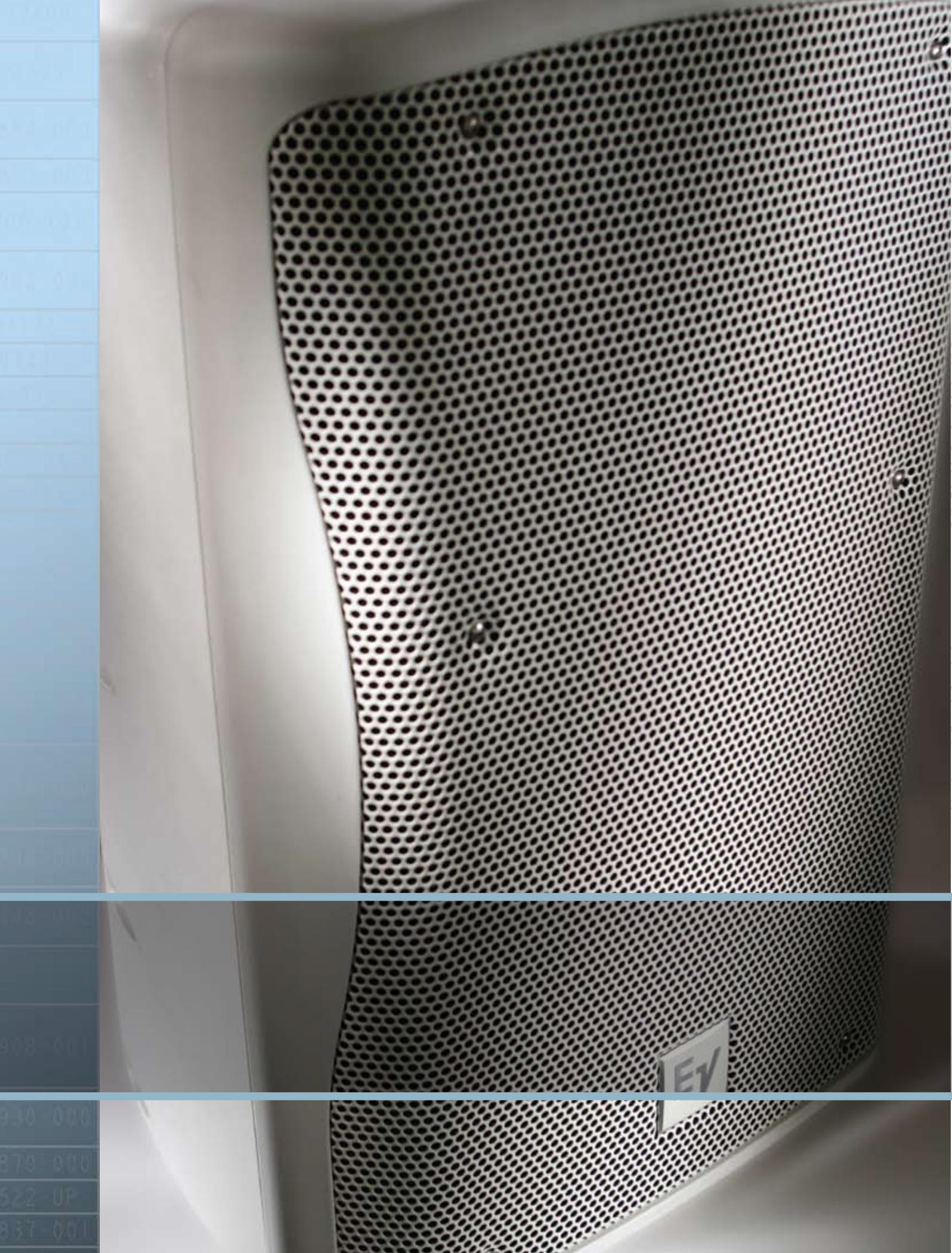
audio performance, versatility, aesthetics, and light weight.

You won't find another speaker system on the market that offers the outstanding sound quality, range of versatility, and tremendous output capability of the ZX5 anywhere near its size and weight.

With the launch of the 100S in 1982, Electro-Voice pioneered the design and manufacture of composite enclosure professional loudspeakers. The 100S was followed by the very popular S200 in 1984. At this time, high-tech industries began developing superior composites for increasingly sophisticated applications. Electro-Voice set even higher performance standards with the debut of the Sx200 in 1994, maximizing the lightweight, high-strength properties of these composites. In keeping with our philosophy of constant improvement, we introduced the Sx300 in 1997, incorporating breakthrough RMD™ (Ring-Mode-Decoupling) transducer technology. The Sx Series quickly became the industry standard for professional loudspeaker applications worldwide.

Moving forward, EV has raised the bar once again by introducing the ZX Series: a unique combination of incredible sonic performance, application flexibility, streamlined aesthetics, and super-light weight. The ZX5 and powered ZXA5 offer a range of features and a level of versatility unmatched in other 15-inch two-way loudspeakers.







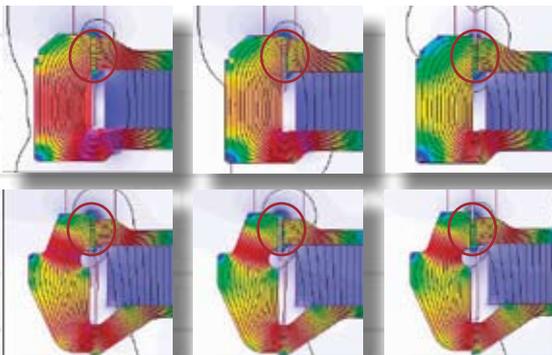
The relationship between enclosure and component is crucial to optimizing loudspeaker system performance. By designing and manufacturing its own components, EV ensures this critical balance is achieved in every loudspeaker that leaves the factory. ZX5 epitomizes this approach by utilizing tour grade DVX series woofers and ND2 neodymium compression drivers.

Electro-Voice Components

— The Key to Performance



EV is a globally renowned pioneer and leader in transducer designs for professional loudspeaker systems. The result of an ongoing multi-million dollar R&D project, the groundbreaking DVX woofer series sets a new benchmark for performance, high SPL output, and low distortion. DVX motor structure and suspension is optimized for very linear movement using state-of-the-art development tools, such as computer simulation software for dynamic finite element analysis (Dynamic FEA).

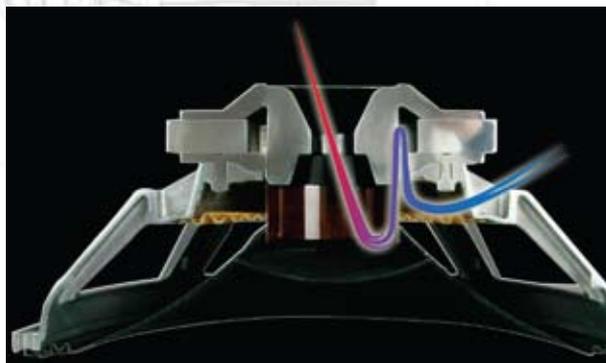


Snapshots of Dynamic FEA for a high power signal (100V) for a conventional design (top) versus DVX (bottom). The changing colors in the gap indicate an extreme variation of the magnetic flux for the conventional design, while there is only slight variation with DVX. The result is a more even travel of the DVX voice coil, significantly reducing harmonic distortion.

Electro-Voice DVX[®] Transducer Technology

In conventional woofer designs, high power signals with peaks up to and beyond 100V create a wide variation in the magnetic field, disturbing the linear movement of the voice coil and resulting in audible distortion. Unique DVX motor geometry greatly reduces these changes in magnetic flux, reducing harmonic distortion up to 20dB. DVX frames are designed with integrated Forced Air Voice Coil Cooling[™]. The movement of cone and voice coil forces air inside the woofer, taking heat away from the voice coil and exhausting it out the rear vent. This results in drastically cooler operation and reduced power compression, so DVX can provide continuously higher output. The asymmetric suspension of DVX provides a perfectly harmonic system, eliminating typical loudspeaker resonances that can cause audible sound coloration. First used in the late '90s, this process of Ring-Mode Decoupling was designed into DVX using advanced techniques. Computer modeled die cast frames are optimized to be rugged and lightweight, while specially forged steel motor components provide higher sensitivity and additional weight savings.

Offering an unprecedented level of sonic clarity, dynamic capability, very high output, and long-term endurance and reliability, the amazing performance of DVX woofers needs to be heard to be believed.



With every excursion, cool air is drawn through the voice coil, removing heat. This significantly reduces power compression, resulting in higher long-term SPL.

DVX and ND2 are found in the world's finest compact format line array systems – EV XLC[™] and XLD[™]

ND2 Compression Driver

Two-Inch Voice Coil Diameter

ND2's high energy, compact neodymium motor

provides extended HF response in an extremely lightweight design. An aluminum heatsink dissipates thermal energy, allowing for additional power handling and maximum output, while the ultra thin (0.5 mm, 0.002 inch) titanium diaphragm provides reliability and exceptional transient response. All of ND2's critical internal parts, including the diaphragm, voice coil, and phase plug, are produced in-house, using proprietary high precision tooling. Each manufacturing process is monitored with the most accurate equipment available, guaranteeing every driver delivers consistent, correct sound quality.

ZX5 – The monitor

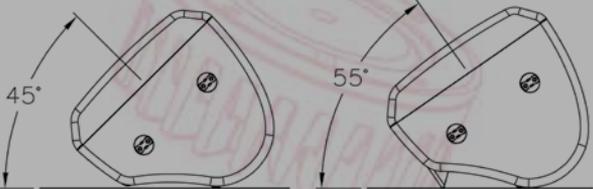
By design, the ZX5 is also a perfect solution for stage monitor applications. As different stage depths require different monitor angles, the ZX5 offers two angles to optimize performance without additional accessories.





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(x4)



ISOMETRIC VIEW

Installations

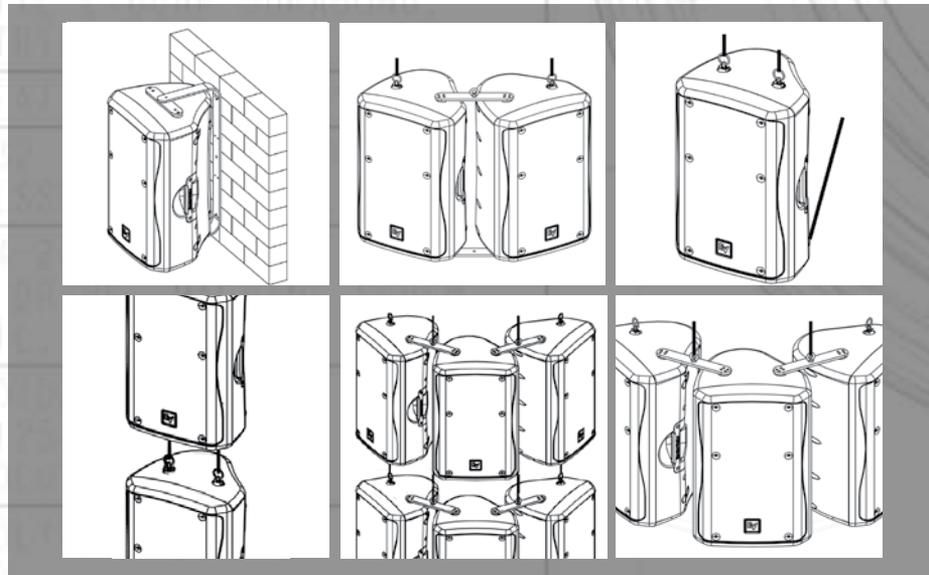
The ZX5 is available in black or white finishes to meet the aesthetic requirements of most installations. A cloth backed full face grille completes the clean, professional look. Weatherized versions feature hydrophobic grille cloth and a waterproofed input panel.

Computer Optimized HF Waveguides

EV designs its superior waveguides to accurately control high- and mid-frequency dispersion. To address different coverage requirements, ZX5 is available in two horn patterns: 90° x 50° for wider areas; 60° x 60° for longer throw applications. Both provide smooth, even response on- and off-axis.

Integrated Rigging and Suspension

ZX5 is equipped with ten M8 threaded suspension points, allowing for a wide range of rigging configurations. Single stud fittings are standard on five of these points, including top, bottom, and rear.



Accessories for Added Versatility



ZXA5 – Performance and Convenience

ZXA5 combines the performance of DVX and ND2 with a high output dual channel integrated amplifier. ZXA5 boasts an unprecedented power-to-weight ratio, effortlessly delivering a continuous 250 watts into the HF and 1000 watts into the LF. In addition to its incredible sonic abilities, ZXA5 retains all of the functionality of the passive ZX5 in terms of accessories, mounting options, and multiple monitor angles.



Protect your investment with the HDC-5 heavy duty cover, which provides portable protection and convenient storage. A corrugated plastic insert on the top of the HDC-5 allows one unit to be stacked on top of another, a feature that is especially valuable to rental companies with large inventories and minimal space. The plastic pocket on the rear of the cover contains a blank card for labeling an enclosure's identifying characteristics, such as dispersion patterns or PI versions.



	ZX5	ZX5-PI	ZXA5
Freq. Response (-3 dB):	58 Hz - 18 kHz		58 Hz - 18 kHz
Freq. Range (-10 dB):	39 Hz - 20 kHz		50 Hz - 20 kHz
Rec. Hipass Frequency:	36 Hz		
Axial Sensitivity:	98 dB (1W/1m)		
Max Calculated SPL:	132 dB		133 dB
Coverage Patterns:	60° x 60°, 90° x 50°		
Rated System Power:	600W Continuous, 2400W Peak		
LF Power Handling:	500W Continuous, 2000W Peak		
HF Power Handling:	40W Continuous, 160W Peak		
LF Amplifier Power:			1000W
HF Amplifier Power:			250W
LF Transducer:	DVX3150, 15in (300mm) Driver		
HF Transducer:	ND2, 1in. (25.4mm) exit Neodymium Compression Driver		
Crossover Frequency:	1.5 kHz		
Nominal Impedance:	8 Ohms		
Minimum Impedance:	6.5 Ohms		
Connectors:	Neutrik Speakon NL4	2 Conductor SJO Cable and Gland Nut	
Input Connector:			XLR and 1/4-inch TRS Combination
Output Connector:			XLR
Power Requirement:			110-130 VAC, 50-60 Hz, or 220-240VAC, 50-60 Hz
Enclosure Material:	Polypropylene Structural Foam, Black or White		
Suspension:	Enclosure has locations for 5 Single-Stud Attachment Plates and 10 Forged Steel Eyebolts - 2 on Top, 2 on Bottom, 2 on Side, and 4 on Rear of Enclosure		
Grille:	Polyester Powder Coated, 16GA Galvanized Steel	Polyester Powder Coated, 16GA Galvanized Steel w/Hydrophobic Cloth	Polyester Powder Coated, 16GA Galvanized Steel
Environmental Spec:	IEC 529 IP24 / IP44 (PI Version)		
Dim (H x W x D):	27.26-inch x 17.57-inch x 16.16-inch (692mm x 446mm x 411mm)		
Net Weight:	49 lbs (22.2 kg)		50.5 lbs (22.9 kg)
Shipping Weight:	57.4 lbs (26.0 kg)		58.9 lbs (26.7 kg)

Bosch Communications Systems
Americas—Headquarter Americas
Telex Communications, Inc.
12000 Portland Ave South,
Burnsville, MN 55337, USA
USA—Ph: 1-800-392-3497
Fax: 1-800-955-6831
Canada—Ph: 1-866-505-5551
Fax: 1-866-336-8467
Latin America—Ph:
1-952-887-5532
Fax: 1-952-736-4212

Europe, Africa & Middle-East
Headquarter EAME
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: Shuttlesound,
4 The Willows Centre,
Willow Lane, Mitcham,
Surrey CR4 4NX, UK
Phone: +44 208 646 7114
Fax: +44 208 254 5666

Asia & Pacific Rim—
Headquarter Asia
Singapore: Telex
Communications (SEA) Pte Ltd
38C Jalan Pemimpin
Singapore 577180
Tel: (65) 6319 0621
Fax: (65) 6319 0620

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

Hong Kong: Telex EVI Audio
(HK) Ltd.
Unit 5,1/F, Topsail Plaza
11 On Shum Street
Shek Mun, Shatin HK
Phone: +852 2351-3628,
Fax: +852 2351-3329

Bosch Communications Systems
Telex EVI Audio
(Shanghai) Co., Ltd.
Room 3105-3109,
Tower 1 Office Building,
218 Tian Mu Xi Rd.,
Shanghai, China
Postal Code: 200070
Tel: +86 21-6317-2155
Fax: +86 21-6317-3025

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www.electrovoice.com

