

ZX5-90PI

15-inch Two-Way Passive 90° x 50°, 600W Weather-Resistant Loudspeaker System



Key Features:

- All Weather IEC 529, IP44, & MIL810 Environmental Specs
- DVX3150 15" LF Transducer with Forced Air Cooling
- ND2 2" Voice Coil, 1" Exit Neodymium Compression Driver
- 90° x 50° Coverage Pattern
- 600W Continuous (2400W) Power Handling
- High Sensitivity, 132 dB Maximum SPL
- 3 Anchor Plates for Single Stud Fittings and 10 Integral Suspension Points
- Complete Mounting Solutions

General Description:

The Electro-Voice Zx5-90PI features a molded polymer enclosure that is inherently water resistant. The addition of a multilayer grille with hydrophobic cloth and a gland nut input connection completes it for a highly weather resistant system. The Zx5 is the new standard of no compromise audio performance and versatility in a simple to use, compact package.

At its heart are the transducers. First is the DVX3150 high performance low frequency transducer. EV used advanced computer aided design techniques to create forced air, directional voice coil cooling for high power and efficiency. Finite element analysis was used to optimize the suspension and magnetic structure for long, linear travel to provide low distortion and greater LF extension. These features and details, such as forged magnetic components and special materials, provide reliability with a 500W power rating in a lightweight transducer. Next is the ND2, a 2-inch voice coil compression driver based on neodymium motor structure to allow for maximum output while reducing size and weight to a minimum. Its precision phasing plug and titanium diaphragm provide better HF performance, while the integral heatsink provides cooling for high power output.

The high tech enclosure uses injection-molded high-impact polypropylene structural foam to make the Zx5 incredibly durable. The enclosure geometry elements have been carefully designed to provide maximum rigidity and bass response.

Two coverage patterns are available; 60° x 60° coverage for long-throw and cluster applications, 90° x 50° coverage for wider coverage or shorter distances.

The Zx5 is equipped with three anchor plates for rigging with single studfittings, along with two more possible anchor plate attachment points on the bottom. For permanent suspension or attaching brackets, the Zx5 also has two M8 inserts on the top and bottom, two under the handle, and four on the back of the enclosure, for a total of 10.



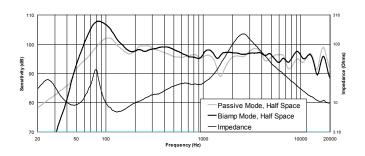
Technical Specifications:

Freq. Response ¹ (-3 dB):	58 Hz - 18 kHz
Freq. Range ¹ (-10 dB):	39 Hz - 20 kHz
Rec. Hipass Frequency:	36 Hz
Axial Sensitivity ¹ :	98 dB (1W/1m)
Max. Calculated SPL:	132 dB
Horizontal Coverage:	90°
Vertical Coverage:	50°
Power Handling (Passive):	600W Continuous, 2400W Peak
LF Power Handling (Biamp):	500W Continuous, 2000W Peak
HF Power Handling (Biamp):	40W Continuous, 160W Peak
LF Transducer:	DVX3150, 15 in (381mm) Driver
HF Transducer:	ND2, 1 in (25.4mm) exit Neodymium Compression Driver
Crossover Frequency:	1.5 kHz
Nominal Impedance:	8 Ohms
Minimum Impedance:	6.5 Ohms
Connectors:	2 Conductor SJO Cable and Gland Nut
Enclosure Material:	Polypropylene Structural Foam
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, with Hydrophobic Cloth
Environmental Spec:	IEC 529 IP24 / IP44 (PI Version)
Dimensions (H x W x D):	692mm x 446mm x 411mm (27.26" x 17.57" x 16.16")
Net Weight:	22.2 kg (49.0 lbs)
Shipping Weight:	26.0 kg (57.4 lbs)
	0

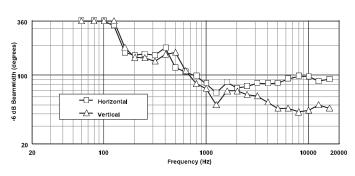
¹ Half Space Measurement.



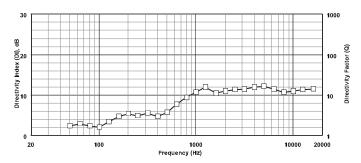
Frequency Response & Impedance:



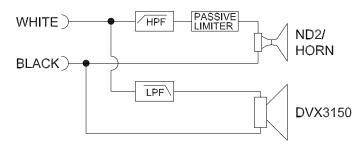
Beamwidth:



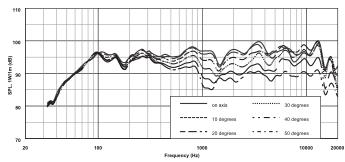
Directivity:



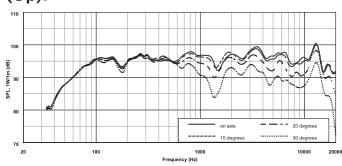
Block Diagram:



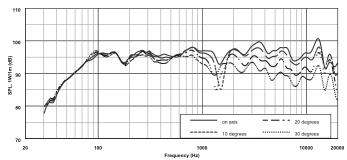
Horizontal Off Axis Frequency Response:

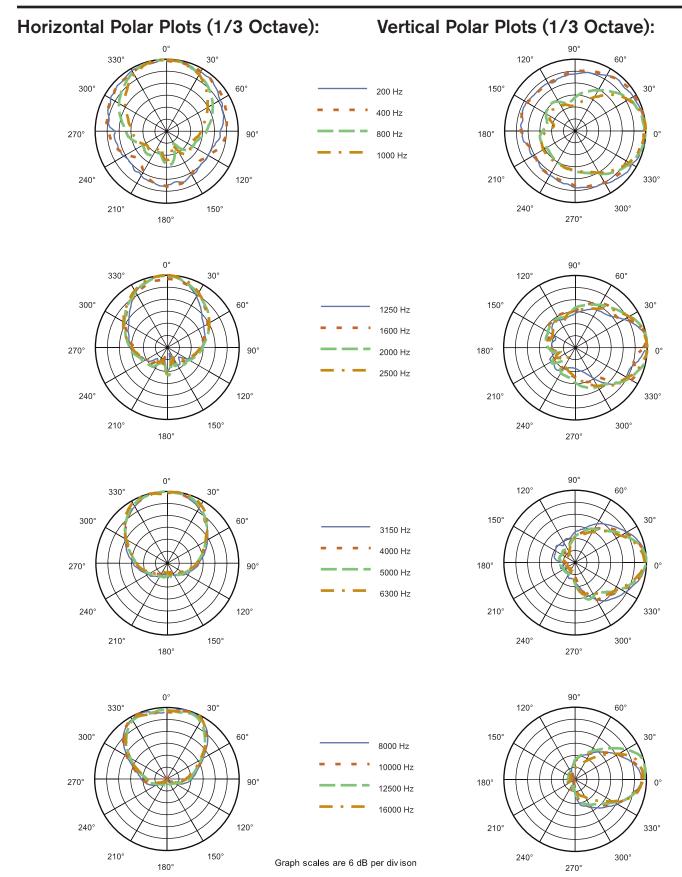


Vertical Off Axis Frequency Response (Up):



Vertical Off Axis Frequency Response (Down):





Dimension Drawings: 16.16" o [411mm] CENTER OF GRAVITY 7.25" [184mm] 8.24" [209mm] 8.97" 1,70" [43mm] Top View [228mm] 6 b đ 101 ()@] 07 ۲ • 17.00" [432mm] 27.26 [692mm] 0 12.85 [326mm] 9 5.56" [141mm] 7.75**"** [197mm] 17.57 [446mm] Left View **Right View Rear View Front View** 8.24" [209mm] 7.25* 7 75" [184mm] 0 [197mm] $oldsymbol{\epsilon}$ **Bottom View**

This Zx5 Loudspeaker should be suspended overhead only in accordance with the procedures and limitations specified in the *Zx5 Users Manual* and possible manual update notices. This system should be suspended with certified rigging hardware by an authorized rigging professional and in compliance with local, state, and federal overhead suspension ordinances.

Zx5 Part Numbers

- 301523-001 Zx5-90B, 90° x 50° Horn, Black Finish
- 301523-002 Zx5-90W, 90° x 50° Horn, White Finish
- 301523-003 Zx5-60B, 60° x 60° Horn, Black Finish
 301523-004 Zx5-60W 60° x 60° Horn, White Finish
- 301523-004 Zx5-60W, 60° x 60° Horn, White Finish
 301523-005 Zx5-90PI, 90° x 50° Horn, Black Finish,
 - Weather Resistant
- 301523-006 Zx5-60Pl, 60° x 60° Horn, Black Finish, Weather Resistant

Performance Match

 301576-001 	SbA760, 120V Single 15" Powered Sub, 760W
 D170258 	CP2200, 120V Power Amplifier, 2 x 800W
 D170312 	CP3000S, 120V Power Amplifier, 2 x 1100W
Accessories	
 301626-001 	MB5-B, Wall/Ceiling Mount Bracket (Black)
 301626-002 	MB5-W, Wall/Ceiling Mount Bracket (White)
 301625-001 	CB5-B, Array Bracket Kit (Black)
 301625-002 	CB5-W, Array Bracket Kit (White)
 301634-000 	EBK-3, Forged M8 Eyebolt Kit, Set of Three
 301633-000 	SSK-1, Single-Stud Rigging Kit, Set of Three
 301813-001 	HDC-5, Heavy-Duty Stackable Cover (Black)
 ACC000012-001 	TCA-1, Truss Clamp Adapter
 ACC000007-001 	VSA-1, Vertical Strong-Arm Mount
 301811-001 	HA-5, Handle Mount Adapter

Electro-Voice

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www.electrovoice.com

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For technical assistance, contact Technical Support at: 866/78AUDIO