

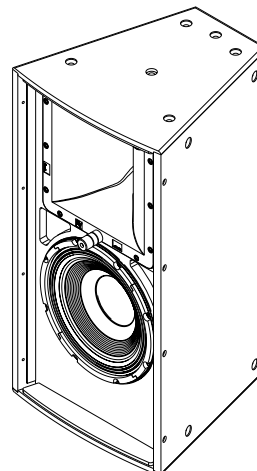
# EVF-1122D/96

## Single 12" Two-Way 90° x 60° Full-Range Loudspeaker System



### Key Features:

- DH7N 3" (76 mm) diaphragm, 1.4" (36 mm) exit pure titanium compression driver
- DVX3121A 12" (305 mm) LF transducer with fully symmetric drive
- Advanced fourth-order crossover network with HF protection
- Coverage pattern: 90° x 60° Constant Directivity™ 12" rotatable waveguide
- 97 dB sensitivity, 131 dB maximum SPL
- System rating: 600 W continuous, 2400 W peak
- Active rating: LF 500 W/HF 75 W continuous (2000 W/300 W peak)
- (22) M10 threaded suspension points
- PI version available with gland nut and stainless-steel grille



### General Description:

The Electro-Voice EVF-1122D/96 is a high-power, two-way loudspeaker system that can be used in a variety of applications where high-quality sound reinforcement is required in a compact, light-weight package.

The EVF-1122D/96 utilizes the DH7N, a high-output 3" titanium compression driver, coupled to a Constant Directivity™ 90° x 60° waveguide. The DVX3121A 12" woofer was developed using FEA optimization for motor, suspension, and electrical design to ensure very low distortion, high efficiency, and maximum intelligibility at high SPL. The crossover uses steep, 24-dB-per-octave slopes with equalization for very smooth response in the vocal range, linear off-axis response, and a protection circuit for long-term reliability.

The EVF-1122D/96's features make it ideal for many fixed-install applications. The trapezoidal enclosure is constructed of weather-resistant birch, and coated with EVCoat™ for maximum protection from the elements. The unique acoustic and rigging design allows for vertical and horizontal clusters to be built using any combination of loudspeakers from the entire EVF and EVH series. With seven horn patterns to choose from, along with an assortment of low-frequency and subwoofer loudspeakers, you have the tools to maximize flexibility of system design, no matter what the application and budget. The innovative input panel provides a choice of Phoenix-style connector (included in all standard models) or the ability to add a dual NL4-type connector cover plate or gland-nut cover plate (for weatherizing applications). An externally accessible jumper selects passive or active operation. An available 70.7/100-V transformer kit may be easily mounted to the input panel for use in distributed systems. All these features give you the flexibility to address a large range of venues, quickly and precisely supporting customer requirements with fewer items in inventory.

### Technical Specifications:

Freq. Response <sup>1</sup> (-3 dB):	57 Hz - 18 kHz	
Freq. Range <sup>1</sup> (-10 dB):	49 Hz - 21 kHz	
Rotatable Coverage:	90° x 60°	
Rec. High-Pass Frequency:	65 Hz	
Passive Crossover Freq.:	1300 Hz	
Axial Sensitivity <sup>1</sup> :	97 dB (1 W/1 m)	
Max. Calculated SPL <sup>1</sup> :	131 dB	
Passive Power Handling <sup>2</sup> :	600 W continuous, 2400 W peak	
Impedance:	8 ohms (nominal), 6.0 ohms (min.)	
<b>LF Transducer - DVX3121A, 12" (305 mm) driver</b>		
LF Axial Sensitivity <sup>4</sup> :	98 dB (1 W/1 m)	
LF Max. Calculated SPL:	131 dB	
LF Power Handling <sup>3</sup> :	500 W continuous, 2000 W peak	
LF Impedance:	8 ohms (nominal), 7.2 ohms (min.)	
<b>HF Transducer - DH7N, 3" (76 mm) diaphragm compression driver</b>		
HF Axial Sensitivity <sup>4</sup> :	111 dB (1 W/1 m)	
HF Max. Calculated SPL:	136 dB	
HF Power Handling <sup>3</sup> :	75 W continuous, 300 W peak	
HF Impedance:	8 ohms (nominal), 6.0 ohms (min.)	
Connectors:	Dual four-pin 10 AWG Phoenix/Euro Block screw-terminals	PI Version - CDG dual-gland-nut input panel cover included
Enclosure:	13-ply weather-resistant birch with EVCoat™	
Grille:	16 GA powder-coated galvanized with rotatable logo	PI Version - Stainless steel with hydrophobic cloth
Environmental:	IEC 60529 IP55 for PI version	
Suspension:	(22) M10 threaded suspension points	
Dimensions (H x W x D):	30.26" x 16.00" x 16.27" (768.6 mm x 406.3 mm x 413.3 mm)	
Weight:	65.5 lb (29.7 kg) net, 75.8 lb (34.4 kg) shipping	

<sup>1</sup> Half-space measurement.

<sup>2</sup> EIA RS-426A, tested for eight hours.

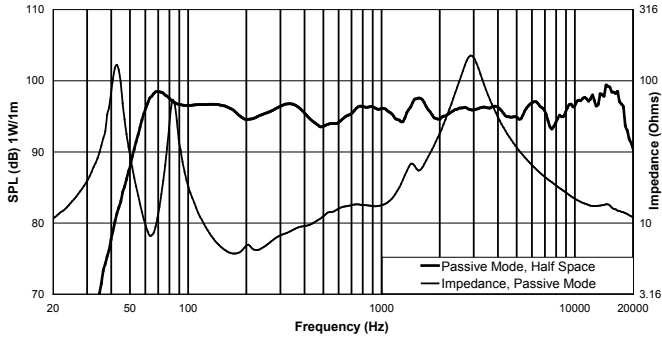
<sup>3</sup> AES 2-1984, tested for eight hours.

<sup>4</sup> Arithmetic averages, 300 - 1,300 Hz (LF) and 1,300 - 5,000 Hz (HF).

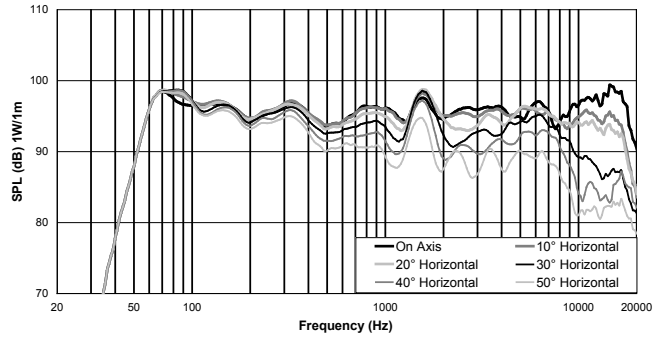


# EVF-1122D/96 Loudspeaker System

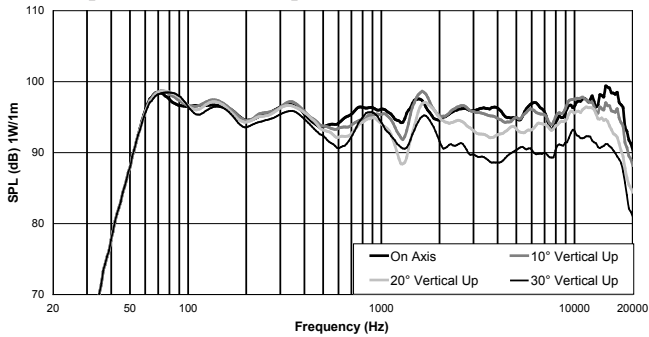
## Frequency Response & Impedance:



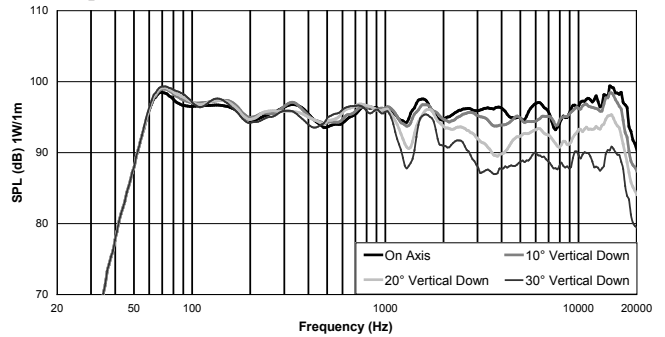
## Horizontal Off-Axis Frequency Response:



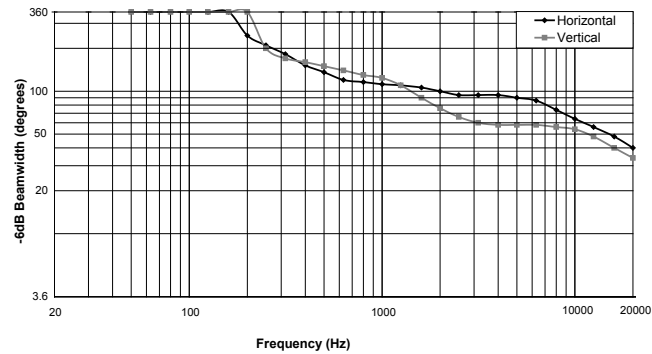
## Vertical Off-Axis Frequency Response (Up):



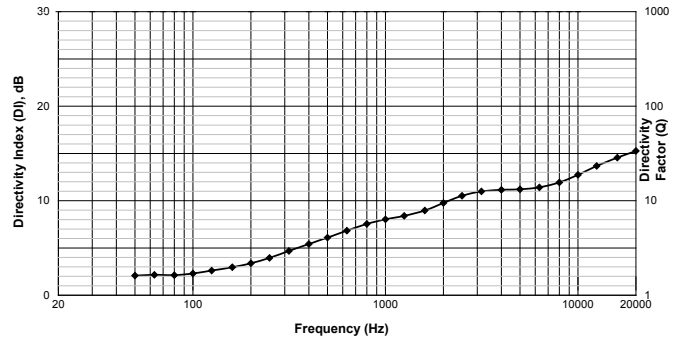
## Vertical Off-Axis Frequency Response (Down):



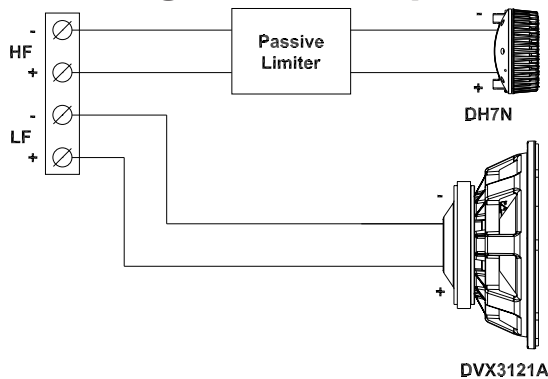
## Beamwidth:



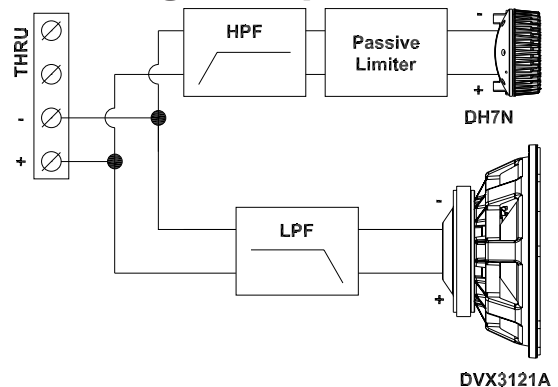
## Directivity:



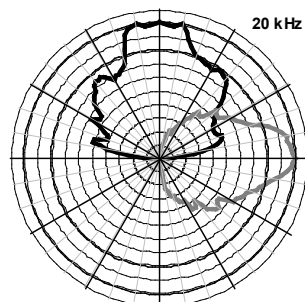
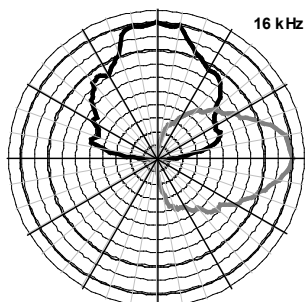
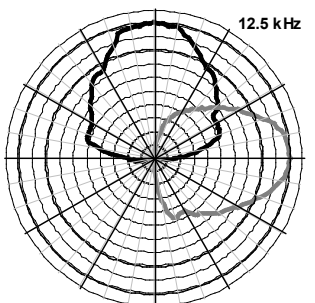
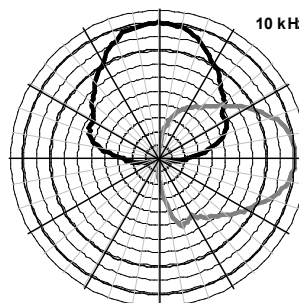
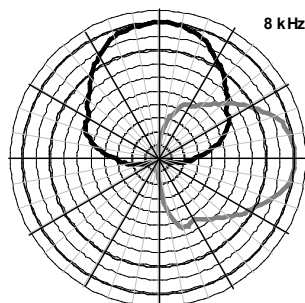
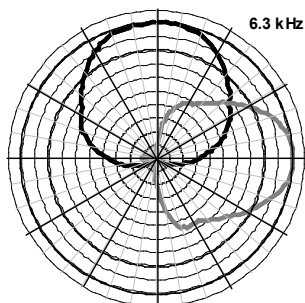
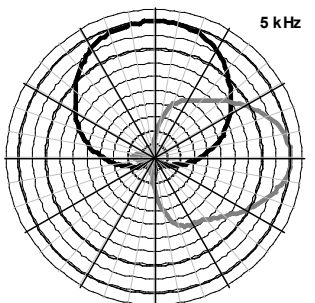
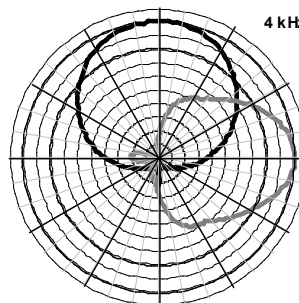
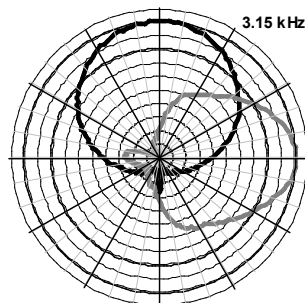
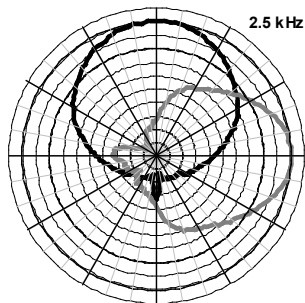
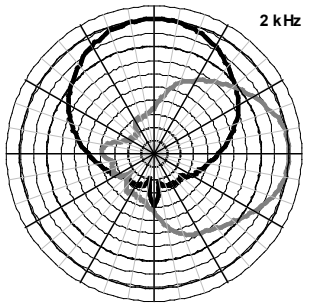
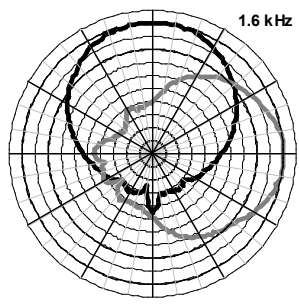
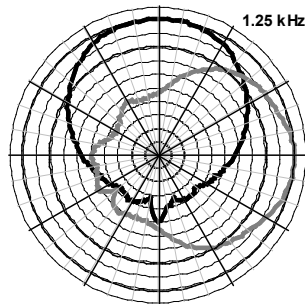
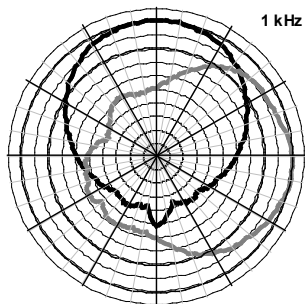
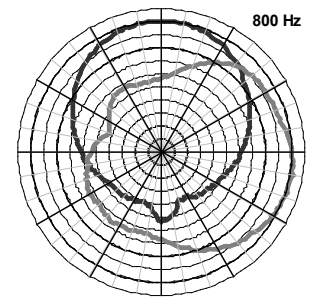
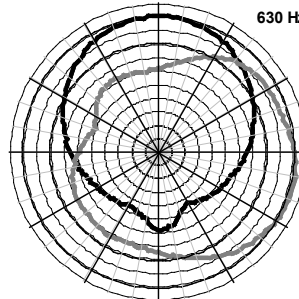
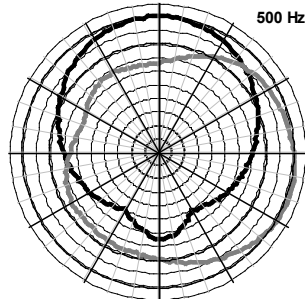
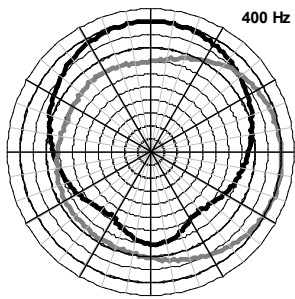
## Block Diagram (biamp):



## Block Diagram (passive):

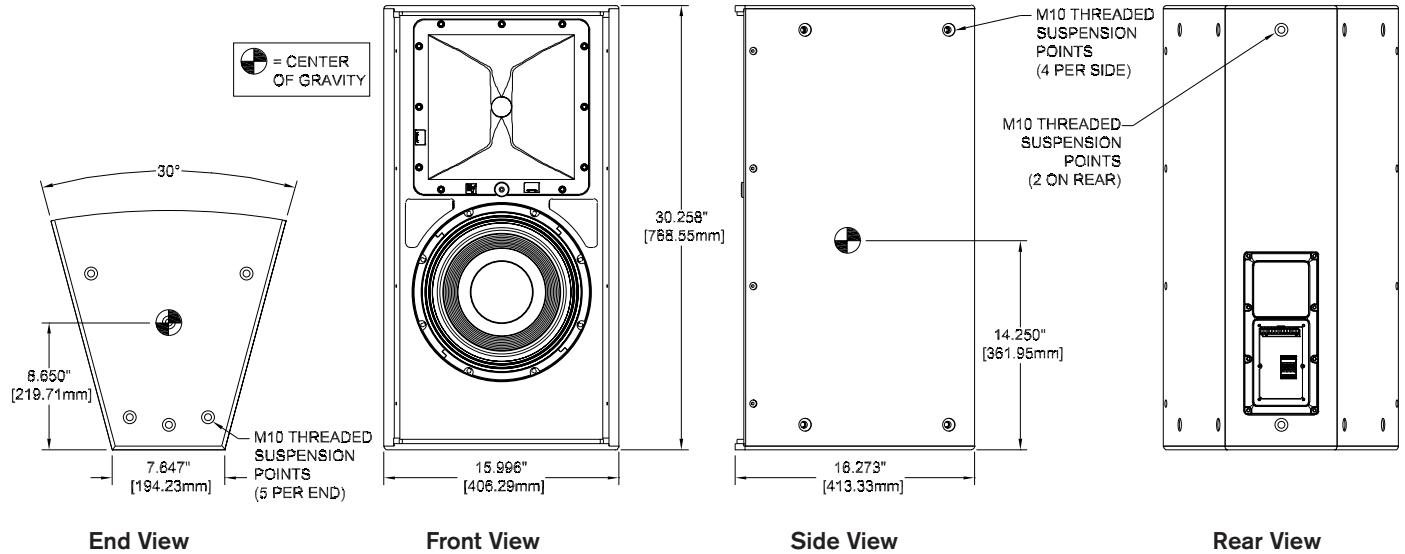


## Polar Plots (1/3 Octave):



**Horizontal = Black**  
Vertical = Grey

## Dimension Drawings:



### EVF-1122D/96 Product Descriptions

- EVF-1122D/96-BLK, 90° x 60°, Black Finish
- EVF-1122D/96-WHT, 90° x 60°, White Finish
- EVF-1122D/96-PIB, 90° x 60°, Black Finish, Weather Resistant Fiberglass
- EVF-1122D/96-PIW, 90° x 60°, White Finish, Weather Resistant Fiberglass
- EVF-1122D/96-FGB, 90° x 60°, Black Finish, Weather Resistant Fiberglass
- EVF-1122D/96-FGW, 90° x 60°, White Finish, Weather Resistant Fiberglass

**⚠ CAUTION ⚠**

This EVF loudspeaker should be suspended overhead only in accordance with the procedures and limitations specified in the *EVF/EVH User 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.

### Performance Match

- EVF-1122D/64, 60° x 40° Coverage
- EVF-1122D/66, 60° x 60° Coverage
- EVF-1122D/94, 90° x 40° Coverage
- EVF-1122D/99, 90° x 90° Coverage
- EVF-1122D/126, 120° x 60° Coverage
- EVF-1152D/43, 40° x 30° Coverage
- EVF-1152D/64, 60° x 40° Coverage
- EVF-1152D/66, 60° x 60° Coverage
- EVF-1152D/94, 90° x 40° Coverage
- EVF-1152D/96, 90° x 60° Coverage
- EVF-1152D/99, 90° x 90° Coverage
- EVF-2121S, Dual 12" Bass Element
- EVF-2151D, Dual 15" Bass Element
- CPS2.9, 120V Power Amplifier, 2 x 900W
- CPS2.12, 120V Power Amplifier, 2 x 1200W
- CPS4.5, 120V Power Amplifier, 4 x 500W
- CPS4.10, 120V Power Amplifier, 4 x 1000W

### Accessories

- CDNL4, Cover Plate, Dual NL4
- CSG, Cover Plate, Single Gland Nut
- CDG, Cover Plate, Dual Gland Nut
- TK-150, 70V Transformer, 150W
- HRK-1B, Horiz. Rigging Kit, EVF, Black
- HRK-1W, Horiz. Rigging Kit, EVF, White
- HRK-2B, Horiz. Rigging Kit, EVF-SUB, Black
- HRK-2W, Horiz. Rigging Kit, EVF-SUB, White
- VRK-1B, Vert. Rigging Kit, EVF, Black
- VRK-1W, Vert. Rigging Kit, EVF, White
- VRK-2B, Vert. Rigging Kit, EVF-SUB, Black
- VRK-2W, Vert. Rigging Kit, EVF-SUB, White
- EVF-UB-BLK, U-Bracket Kit, EVF, Black
- EVF-UB-WHT, U-Bracket Kit, EVF, White

## Electro-Voice

12000 Portland Avenue South, Burnsville, MN 55337  
Phone: 952/884-4051, Fax: 952/884-0043

www.electrovoice.com

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Part Number F.01U.196.245 Rev 02

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800/685-2606

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Specifications subject to change without notice.