#### EVF-1122S/99-FG

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



#### **Key Features:**

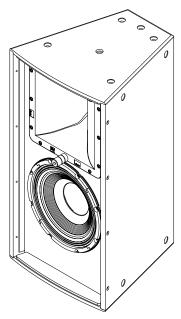
- Fully Weatherized Fiberglass Finish with Gland Nut and Stainless Steel Grille
- ND2B 2" (51mm) Diaphragm, 1.4" (36mm) Exit
   Pure Titanium Compression Driver
- SMX2121 12" (305mm) LF Transducer with Fully Symmetric Drive
- Advanced 4<sup>th</sup> Order Crossover Network with HF Protection
- Coverage Pattern: 90° x 90° Constant Directivity™ 12" Rotatable Waveguide
- 98 dB Sensitivity, 131 dB Maximum SPL
- System Rating: 500W Continuous, (2000W Peak)
- Active Rating: LF400W/HF40W Continuous (1600W/160W Peak)
- (22) M10 Threaded Suspension Points

#### **General Description:**

The Electro-Voice® EVF-1122S/99-FG is a fully-weatherized, fiberglass-coated, high power, 2-way loudspeaker system that can be used in a variety of applications where high quality sound reinforcement is required in a compact, lightweight package.

The EVF-1122S/99-FG utilizes the ND2B, a high output 2" titanium compression driver, coupled to a Constant Directivity™ 90° x 90° waveguide. The SMX2121 12" woofer used FEA optimization for motor, suspension, and electrical design for very low distortion, high efficiency, and maximum intelligibility at high SPL levels. The crossover uses steep 24 dB/octave slopes with equalization for very smooth response in vocal range, linear off-axis response, and a protection circuit for long term reliability.

The EVF-1122S/99-FG features make it ideal for many fixed install applications, including applications with full exposure to outdoor elements. The trapezoidal enclosure is constructed out of weather resistant birch, and coated with fiberglass for maximum protection from extreme outdoor 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 & EVH Series, with 7 horn patterns to choose from and an assortment of Low Frequency and subwoofer loudspeakers, it gives you the tools to maximize flexibility of system design, no matter what the application and budget. The innovative input panel provides phoenix style connectors (included in all standard models) and gland nut cover plate (for weatherizing applications). An externally accessible jumper selects passive or active operation. An available 70.7/100 Volt transformer kit simply mounts to the input panel for use in distributed systems. All these features give you the flexibility to do a large range of venues in extreme environments with fewer items in inventory and quickly support your customer's requirements.



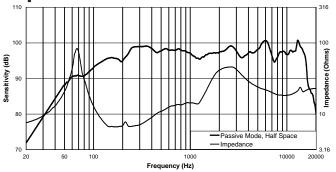
### **Technical Specifications:**

Freq. Response¹ (-3 dB): 118 Hz - 16 kHz  Freq. Range¹ (-10 dB): 58 Hz - 19 kHz  Rec. Hipass Frequency: 65 Hz  Axial Sensitivity: 98 dB (1W/1m)  Max. Calculated SPL: 131 dB  Horizontal Coverage: 90°  Vertical Coverage: 90°  Power Handling: 500W Continuous, 2000W Peak  LF Transducer: SMX2121, 12 in (305mm) Driver  HF Transducer: ND2B, 2 in (51mm) Diaphragm Compression Driver  Crossover Frequency: 1450 Hz  Nominal Impedance: 8 Ohms  Minimum Impedance: (2) 4 Contact 10 AWG Phoenix/EuroBlock Style Screw Terminal, Gland Nut with Input Panel Cover Included for Weatherizing  Enclosure Material: 13 Ply Weather Resistant Birch, Fiberglass Finish  Grille: 18 GA Stainless Steel with Hydrophobic Cloth and Rotatable Logo  Suspension: (22) M10 Threaded Points  Dimensions (H x W x D): 30.26" x 16.00" x 16.27" (768.6mm x 406.3mm x 413.3mm)  Net Weight: 63.1 lb (28.6 kg)  Shipping Weight: 73.4 lb (33.3 kg)		
Rec. Hipass Frequency:  Axial Sensitivity:  98 dB (1W/1m)  Max. Calculated SPL:  131 dB  Horizontal Coverage:  90°  Vertical Coverage:  90°  Power Handling:  500W Continuous, 2000W Peak  LF Transducer:  MS2121, 12 in (305mm) Driver  HF Transducer:  ND2B, 2 in (51mm) Diaphragm  Compression Driver  Crossover Frequency:  1450 Hz  Nominal Impedance:  8 Ohms  Minimum Impedance:  6.0 Ohms  Connectors:  (2) 4 Contact 10 AWG Phoenix/  EuroBlock Style Screw Terminal,  Gland Nut with Input Panel Cover Included for Weatherizing  Enclosure Material:  13 Ply Weather Resistant Birch,  Fiberglass Finish  Grille:  18 GA Stainless Steel with Hydrophobic Cloth and Rotatable Logo  Suspension:  Dimensions (H x W x D):  Net Weight:  63.1 lb (28.6 kg)	Freq. Response <sup>1</sup> (-3 dB):	118 Hz - 16 kHz
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Horizontal Coverage: 90°  Vertical Coverage: 90°  Power Handling: 500W Continuous, 2000W Peak  LF Transducer: SMX2121, 12 in (305mm) Driver  HF Transducer: ND2B, 2 in (51mm) Diaphragm Compression Driver  Crossover Frequency: 1450 Hz  Nominal Impedance: 8 Ohms  Minimum Impedance: 6.0 Ohms  Connectors: (2) 4 Contact 10 AWG Phoenix/ EuroBlock Style Screw Terminal, Gland Nut with Input Panel Cover Included for Weatherizing  Enclosure Material: 13 Ply Weather Resistant Birch, Fiberglass Finish  Grille: 18 GA Stainless Steel with Hydrophobic Cloth and Rotatable Logo  Suspension: (22) M10 Threaded Points  Dimensions (H x W x D): 30.26" x 16.00" x 16.27" (768.6mm x 406.3mm x 413.3mm)  Net Weight: 63.1 lb (28.6 kg)	Axial Sensitivity:	98 dB (1W/1m)
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	Dimensions (H x W x D):	
Shipping Weight: 73.4 lb (33.3 kg)	Net Weight:	63.1 lb (28.6 kg)
Chipping Weight: 170.7 lb (00.0 kg)	Shipping Weight:	73.4 lb (33.3 kg)

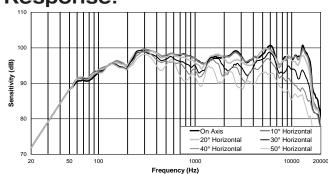
<sup>&</sup>lt;sup>1</sup> Half Space Measurement

## EVF-1122S/99-FG Loudspeaker System

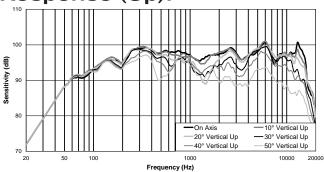
# Frequency Response & Impedance:



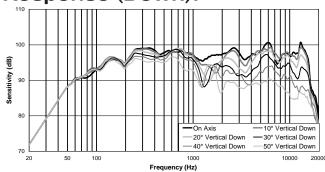
# Horizontal Off Axis Frequency Response:



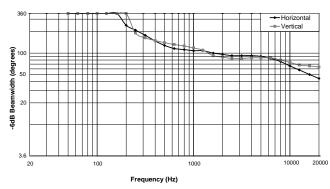
# Vertical Off Axis Frequency Response (Up):



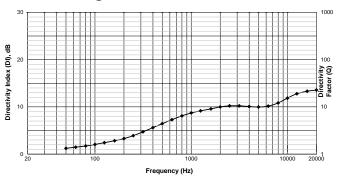
# Vertical Off Axis Frequency Response (Down):



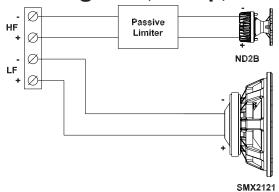
#### **Beamwidth:**



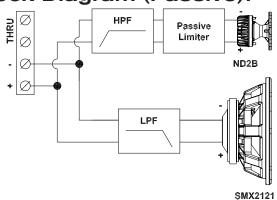
### **Directivity:**



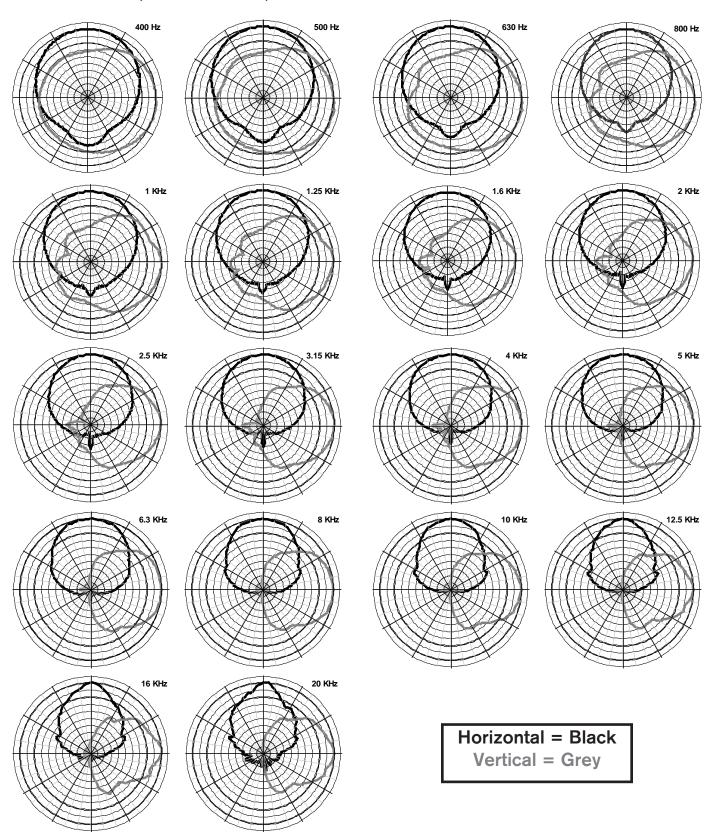
## **Block Diagram (Biamp):**



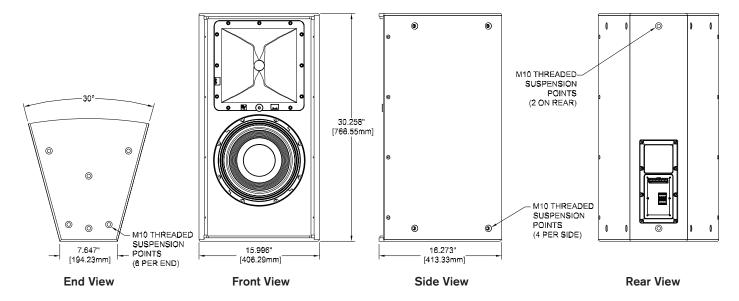
## **Block Diagram (Passive):**



# Polar Plots (1/3 Octave):



#### **Dimension Drawings:**



#### **EVF-1122S/99 Product Descriptions**

- EVF-1122S/99-BLK, 90° x 90°, Black Finish
- EVF-1122S/99-WHT. 90° x 90°. White Finish
- EVF-1122S/99-PIB, 90° x 90°, Black Finish, Weather Resistant
- EVF-1122S/99-PIW, 90° x 90°, White Finish, Weather Resistant
- EVF-1122S/99-FGB, 90° x 90°, Black Finish, Weather Resistant **Fiberglass**
- EVF-1122S/99-FGW, 90° x 90°, 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 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.

#### Performance Match

- EVF-1122S/64, 60° x 40° Coverage
- EVF-1122S/66, 60° x 60° Coverage
- EVF-1122S/94, 90° x 40° Coverage
- EVF-1122S/96, 90° x 60° Coverage
- EVF-1122S/126, 120° x 60° Coverage
- EVF-1152S/43, 40° x 30° Coverage
- EVF-1152S/64, 60° x 40° Coverage
- EVF-1152S/66, 60° x 60° Coverage EVF-1152S/94, 90° x 40° Coverage
- EVF-1152S/96, 90° x 60° Coverage
- EVF-1152S/99, 90° x 90° Coverage
- EVF-1121S, 12" Bass Element
- EVF-1151S, 15" Bass Element
- EVF-1181S, 18" 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®

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www.electrovoice.com

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Other International locations. For customer orders, Contact Customer Service at: + 1 952 884-4051 Fax: + 1 952 887-9212 For warranty repair or service information, contact the Service Repair department at:

800/685-2606

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