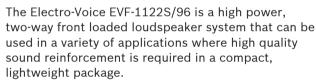
EVF-1122S/96



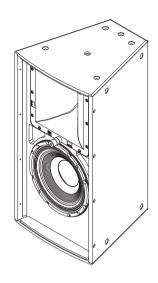
- Coverage Pattern: 90° x 60° Constant Directivity 12-inch Rotatable Waveguide
- Passive System: 98 dB Sensitivity, 131 dB Maximum SPL
- System Rating: 500 W Continuous, (2000 W Peak)
- PI and FG Version are Standard with Gland Nut and Stainless Steel Grille
- EN54-24 type B certification 1438/CPR/0283 (Only available in select regions)



For high frequencies, the EVF-1122S/96 utilizes the ND2B high output 2-inch titanium compression driver, coupled to a rotatable Constant Directivity 90° x 60° waveguide. For low frequencies, the SMX2121 12-inch 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 an HF protection circuit for long term reliability.

The EVF-1122S/96 features make it ideal for many fixed-install applications. The trapezoidal enclosure is constructed out of weather-resistant birch and coated with EVCoat for enhanced durability. For protection against outdoor elements, weatherized versions are available (PI and FG). The enclosure is built with 22 M10 suspension points; 20 for single hang (four (4) shoulder eyebolts included) or cluster arrays (optional HRK or VRK kits) and two (2) for single hang with a U-bracket (optional EVF-UB).

The innovative input panel provides Phoenix-style connectors (included in all models) and a dual gland nut cover plate (CDG included in PI and FG models). For convenience in temporary installation you may add a dual NL4 type connector cover plate (CDNL4). An



external easy to access jumper card is provided with each loudspeaker to assist you in the selection of passive (standard shipping configuration) or biamp operation. An available 70.7/100 Volt internal transformer kit (TK-150) may be easily mounted to the input panel for use in distributed systems. No matter what the application and budget, all these features provide you with the tools to increase flexibility during system design to meet and support your customer's requirements with fewer items in inventory.

EVF and EVH loudspeakers feature precise acoustics and rigging design for easy to configure vertical and horizontal clusters as part of the solutions provided in the EV innovation family.

Technical specifications

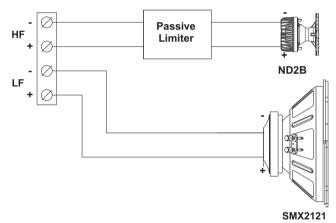
| _ | | | |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------|
| Frequency Response (-3 dB): | 58 Hz – 16 kHz ¹ | | |
| Frequency Range (-10 dB): | 49 Hz – 19 kHz¹ | | |
| Rotatable Coverage: | 90° x 60° | | |
| Rec. High-pass Frequency: | 65 Hz | | |
| Passive Crossover Frequency: | 1450 Hz | | |
| Axial Sensitivity: | 98 dB (1W/1m) ¹ | | |
| Max. Calculated SPL: | 131 dB¹ | | |
| Passive Power Handling: | 500 W Continuous, 2000 W Peak ² | | |
| Impedance: | 8Ω (nominal), 6.0Ω (min) | | |
| Transformer: | 70 V | 100 V | Z nom |
| Standard 50 Hz BW24 High- pass | 37.5 W | 75 W | 130 Ω |
| · | 75 W | 150 W | 65 Ω |
| | 150 W | Do Not Use | 33 Ω |
| Transformer: | 70 V | 100 V | Z nom |
| 89 Hz High-pass per EN54-24 Spectrum | 50 W | 100 W | 100 Ω |
| | 100 W | 200 W | 50 Ω |
| | 200 W | 400 W | 25 Ω |
| LF Transducer - SMX2 | 2121, 12 in (| 305 mm) driver | |
| LF Axial Sensitivity: | 99 dB (1W/1m) ⁴ | | |
| LF Max. Calculated SPL: | 131 dB | | |
| LF Power Handling: | 400 W Continuous, 1600 W Peak | | |
| LF Impedance: | 8Ω (nominal), 6.3Ω (min) ³ | | |
| HF Transducer - ND2B, 2 in (5: | 1 mm) diaphi | ragm compressio | n driver |
| HF Axial Sensitivity: | 111 dB (1W/1m) ⁴ | | |
| HF Max. Calculated SPL: | 133 dB | | |
| HF Power Handling: | 40 W Continuous, 160 W Peak | | |
| HF Impedance: | 8Ω (nominal), 7.4Ω (min) ³ | | |
| Connectors: | Dual four p AWG Phoe EuroBlock Screw Teri | nix/ CDG Style Nut Ir | i versions: Dual Gland nput Panel r Included |
| Enclosure: | 13-ply weather- resistant birch with EVCoat with fiberglass finish FG version: 13 ply weather- resistant birch with fiberglass | | eather- ant birch iberglass |
| Grille: | 16 GA pow coated galvanneal removable | Stain with | versions: less steel |

| Environmental: | IEC 60529 IP55 for PI and FG versions | |
|-------------------------|---------------------------------------------------------------------------------------------|--|
| Suspension: | (22) M10 threaded suspension points (4) shoulder eyebolts and (4) fender washers (included) | |
| Dimensions (H x W x D): | 30.26 in x 16.00 in x 16.27 in (768.6 mm x 406.3 mm x 413.3 mm) | |
| Net Weight: | 63.1 lb (28.6 kg) | |
| Shipping Weight: | 73.4 lb (33.3 kg) | |
| | | |

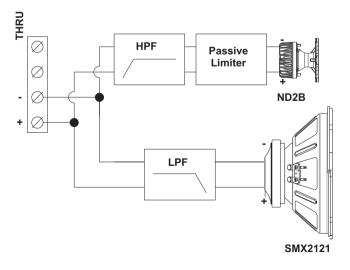
- 1. Half-space measurement.
- 2. EIA RS-426A, tested for eight hours.
- 3. AES 2-1984, tested for eight hours.
- 4. Arithmetic averages, 300-1,450 Hz (LF) and
- 1,450-5,000 Hz (HF).

System overview

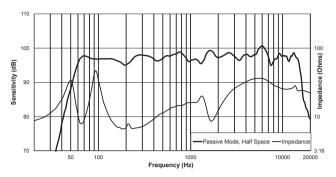
Block Diagram (Biamp):



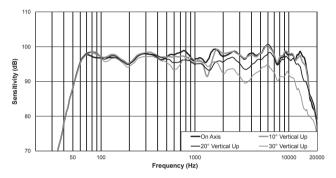
Block Diagram (Passive): Standard shipping configuration



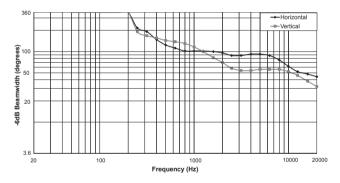
Frequency Response and Impedance:



Vertical Off-Axis Frequency Response (Up):



Beamwidth:

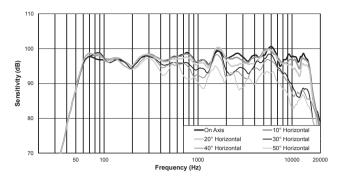


Caution!

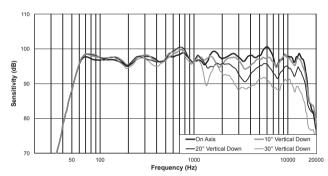
This Electro-Voice loudspeaker should be suspended overhead only in accordance with the procedures and limitations specified in the User's Manual and possible manual update notices. This system should be suspended with certified rigging hardware by an authorized rigging professional and in compliance with local, state, and federal overhead suspension ordinances.

\wedge

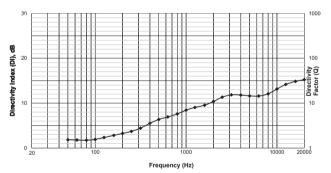
Horizontal Off-Axis Frequency Response:



Vertical Off-Axis Frequency Response (Down):

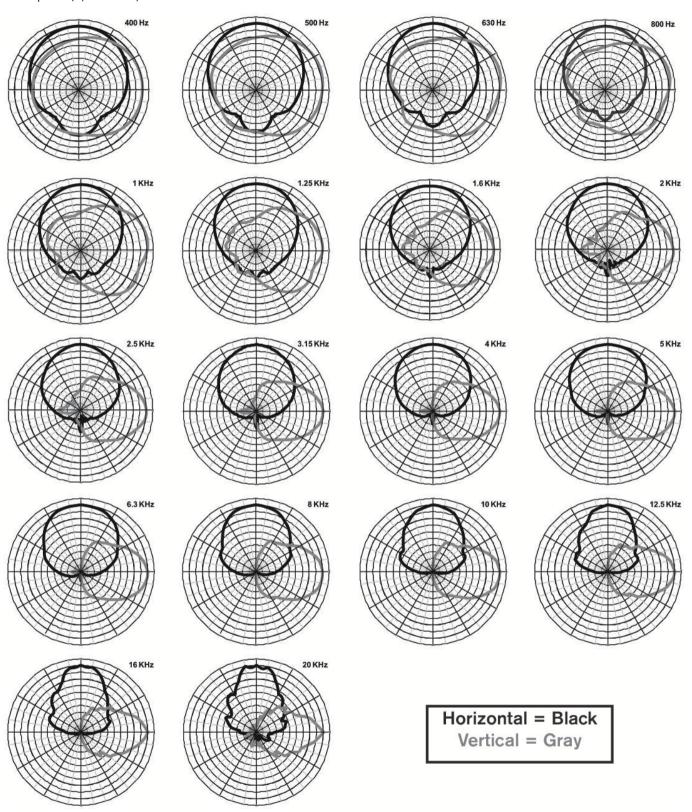


Directivity:

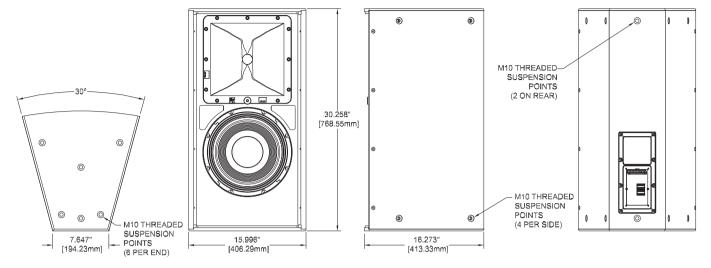


Horizontal and Vertical Polar Response (Passive):

Polar plots (1/3 octave)



Dimension Drawing:



Notice!



Acoustic measurement reference axis is 16 in (40.64 cm) up from the bottom and centered horizontally on the grille.

| Compatible System Solutions: | | |
|------------------------------|-------------------------------------|--|
| EVF-1122S/64 | 60° x 40° Coverage | |
| EVF-1122S/66 | 60° x 60° Coverage | |
| EVF-1122S/94 | 90° x 40° Coverage | |
| EVF-1122S/99 | 90° x 90° 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-2121S | 2 x 12" Bass Element | |
| EVF-1151S | 15" Bass Element | |
| EVF-2151D | 2 x 15" Bass Element | |
| EVF-1181S | 18" Bass Element | |
| CPS2.12 | CPS2.12 Power Amplifier⁵ | |
| CPS4.5 | CPS4.5 Power Amplifier ⁵ | |
| CPS4.10 | CPS4.10 Power Amplifier⁵ | |
| | | |

5. Contact your sales representative for voltage information.

Certifications and approvals



EN54-24 type B certification 1438/CPR/0283 (Only available in select regions)

Ordering information

EVF-1122S/96-BLK

EVF 12" / 2-way Full-range Systems; SMX woofer & ND2B driver (500 W cont.) 90° x 60°, EVCoat, black Order number EVF1122S96BLB

EVF-1122S/96-WHT

EVF 12" / 2-way Full-range Systems; SMX woofer & ND2B driver (500 W cont.) 90° x 60° , EVCoat, white Order number **EVF1122S96WHLB**

EVF-1122S/96-PIB

EVF 12" / 2-way Full-range Systems; SMX woofer & ND2B driver (500 W cont.) 90° x 60°, EVCoat, Plweatherized, black

Order number EVF1122S96PBLB

EVF-1122S/96-PIW

EVF 12" / 2-way Full-range Systems; SMX woofer & ND2B driver (500 W cont.) 90° x 60° , EVCoat, Plweatherized, white

Order number EVF1122S96PWLB

EVF-1122S/96-FGB

EVF 12" / 2-way Full-range Systems; SMX woofer & ND2B driver (500 W cont.) 90° x 60°, EVCoat, fiberglass, black
Order number EVF1122S96FBLB

01401 114111501 **211 2222001 525**

EVF-1122S/96-FGW

EVF 12" / 2-way Full-range Systems; SMX woofer & ND2B driver (500 W cont.) 90° x 60° , EVCoat, fiberglass, white

Order number EVF1122S96FWLB

EVF-1122S/96-BLK

EVF 12" / 2-way Full-range Systems; SMX woofer & ND2B driver (500 W cont.) 90° x 60°, EVCoat, black — EN54-24 certified

Order number EVF1122S96BLKE

EVF-1122S/96-WHT

EVF 12" / 2-way Full-range Systems; SMX woofer & ND2B driver (500 W cont.) 90° x 60°, EVCoat, white — EN54-24 certified

Order number EVF1122S96WHTE

EVF-1122S/96-PIB

EVF 12" / 2-way Full-range Systems; SMX woofer & ND2B driver (500 W cont.) 90° x 60°, EVCoat, Plweatherized, black — EN54-24 certified Order number EVF1122S96PIBE

EVF-1122S/96-PIW

EVF 12" / 2-way Full-range Systems; SMX woofer & ND2B driver (500 W cont.) 90° x 60°, EVCoat, Plweatherized white — EN54-24 certified Order number EVF1122S96PIWE

Accessories

CSG

Single gland nut cover kit for EVA, EVF & EVH Order number CSG-LB

CDG

Dual gland nut cover kit for EVA, EVF & EVH Order number **CDG-LB**

CDNL4

Dual NL4 cover kit for EVA, EVF & EVH Order number CDNL4-LB

TK-150

Transformer kit for EVF & EVH, 150W / 70V Order number **TK-150**

Black EVF U Bracket

Mounting bracket for EVF. black Order number **EVF-UB-BLK-LB**

White EVF U Bracket

Mounting bracket for EVF. white Order number EVF-UB-WHT-LB

HRK-1B

Horizontal rigging kit for EVF, black Order number **HRK-1B-LB**

HRK-1W

Horizontal rigging kit for EVF, white Order number **HRK-1W-LB**

HRK-2B

Horizontal rigging kit for EVF & EVH full-range to EVF sub. black

Order number HRK-2B-LB

HRK-2W

Horizontal rigging kit for EVF & EVH full-range to EVF sub, white

Order number HRK-2W-LB

VRK-1B

Vertical rigging kit for EVF, black Order number VRK-1B-LB

VRK-1W

Vertical rigging kit for EVF, white Order number VRK-1W-LB

VRK-2B

Vertical rigging kit for EVF & EVH full-range to EVF subs, black

Order number VRK-2B-LB

VRK-2W

Vertical rigging kit for EVF & EVH full-range to EVF subs, white

Order number VRK-2W-LB

Represented by:

Germany:Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Grasbrunn
Germany

Bosch Security Systems, Inc. 12000 Portland Avenue South Burnsville MN 55337 USA

www.electrovoice.com