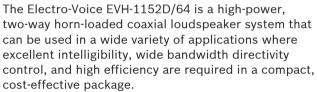
# EVH-1152D/64



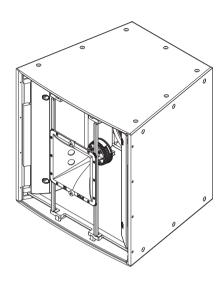
- Rotatable Mid-bass and High Frequency Waveguides for consistent pattern control down to 500 Hz
- Integrated Passive Network with PTP High Frequency Protection
- PI and FG versions available with gland nut and stainless-steel grille rated IEC 60529 IP55
- Integrates easily with EVF Low Frequency and Subwoofer Systems
- EN54-24 type B certification 1438/CPR/0299 with CDG cover installed (Only available in select regions)



For high frequencies, the EVH-1152D/64 utilizes the DH7N, a high-output 3-inch titanium compression driver, coupled to a rotatable Constant Directivity 60° x 40° waveguide. Both the mid-bass and high frequency waveguides may be rotated to maintain uniform pattern control over the entire critical vocal range regardless of enclosure orientation. For low frequencies, the SMX2151 15-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. This combination of technologies results in extended frequency response and excellent pattern control down to 500 Hz.

The EVH-1152D/64 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 28



M10 suspension points for single hang (four (4) shoulder eyebolts included) or cluster arrays (optional HRK or VRK kits).

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

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**

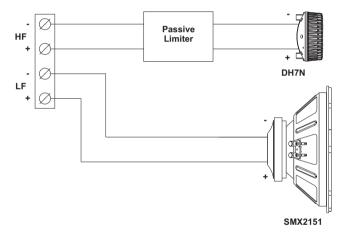
Frequency Response (-3 dB):	60 Hz – 17 kHz <sup>1</sup>		
Frequency Range (-10 dB):	50 Hz – 20 kHz¹		
Rotatable Coverage:	60° x 40°		
Rec. High-Pass Frequency:	60 Hz		
Passive Crossover Frequency:	1300 Hz		
Axial Sensitivity:	105 dB (1 W/1 m) <sup>1</sup>		
Max. Calculated SPL:	138 dB <sup>1</sup>		
Passive Power Handling:	500 W Continuous, 2000 W Peak <sup>2</sup>		
Impedance:	$8 \Omega$ (nominal), $6.0 \Omega$ (min.)		
Transformer: Standard 50 Hz BW24 High Pass	70 V	100 V	Z nom
	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 - SMX	2151, 15 in (38	31 mm) driver	
LF Axial Sensitivity:	106 dB (1 W/1 m) <sup>4</sup>		
LF Max. Calculated SPL:	138 dB		
LF Power Handling:	400 W Continuous, 1600 W Peak <sup>3</sup>		
LF Impedance:	$8 \Omega$ (nominal), $6.1 \Omega$ (min.)		
HF Transducer - DH7N, 3 in (7	76 mm) diaphra	gm compression	on driver
HF Axial Sensitivity:	113 dB (1 W/1 m) <sup>4</sup>		
HF Max. Calculated SPL:	138 dB		
HF Power Handling:	75 W Continuous, 300 W Peak <sup>3</sup>		
HF Impedance:	$8 \Omega$ (nominal), $6.0 \Omega$ (min.)		
Connectors:	Dual 4-pin 10 PI/FG Version AWG Phoenix/ CDG dual- Euro Block gland-nut inp screw-terminals panel cover included		dual- I-nut input I cover
Enclosure:	13-ply weath resistant birc with EVCoat	h ply w resis	ersion: 13- eather- tant birch fiberglass

Grille:	16 GA powder- coated galvanneal with rotatable logo	PI/FG Versions: Stainless steel with hydrophobic cloth
Environmental:	IEC 60529 IP55 for PI and FG versions	
Suspension:	(28) M10 threaded suspension points	
Dimensions (H x W x D):	30.26 in x 30.26 in x 26.77 in (768.6 mm x 768.6 mm x 680.1 mm)	
Net Weight:	145.5 lb (66.1 kg)	
Net Shipping:	160.5 lb (72.9 kg)	

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

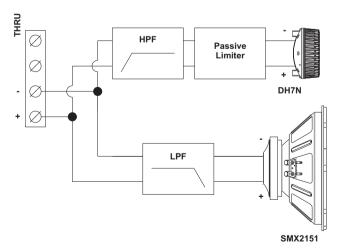
# **System overview**

# **Block Diagram (Biamp):**

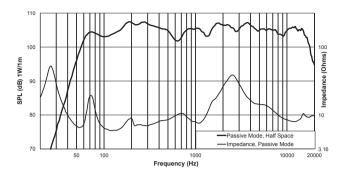


# Block Diagram (Passive):

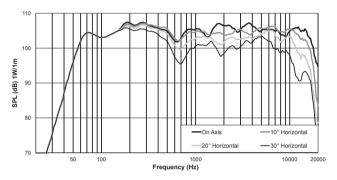
Standard shipping configuration



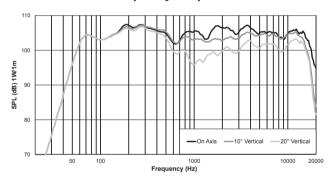
# Frequency Response and Impedance:



# **Horizontal Off-Axis Frequency Response:**



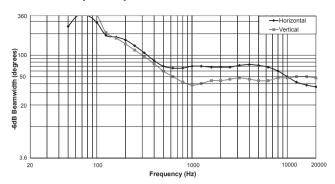
# **Vertical Off-Axis Frequency Response:**



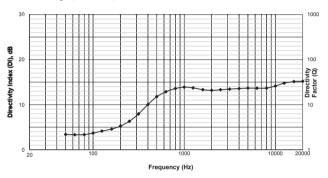
# Caution!

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.

# Beamwidth (Active):



# **Directivity (Active):**



# Notice!



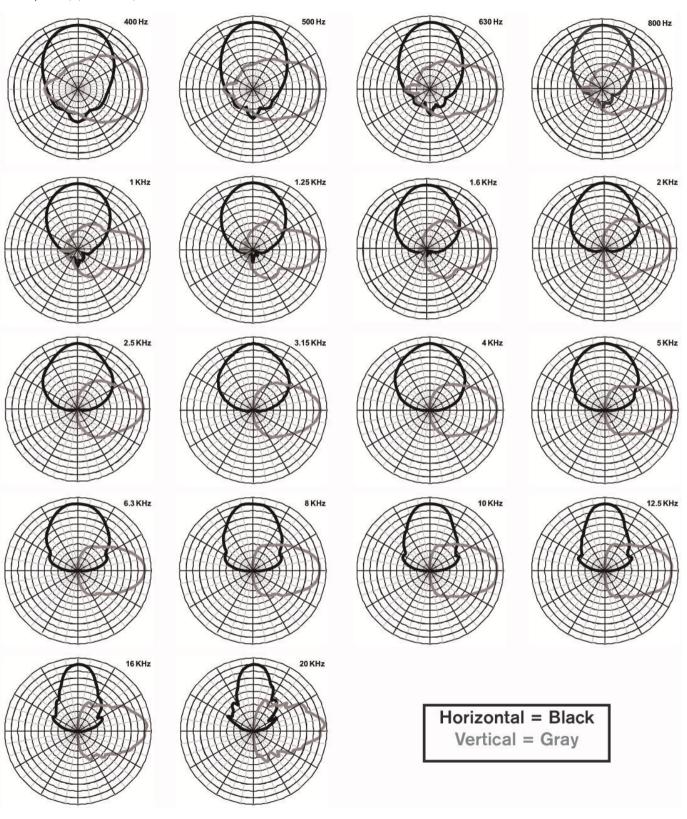
Using EVH-1152D v.1.1 DSP standard IIR settings for the Beamwidth, Directivity and Polar Response.

Compa	tible System Solutions:
EVH-1152D/43	40° x 30° Coverage
EVH-1152D/66	60° x 60° Coverage
EVH-1152D/94	90° x 40° Coverage
EVH-1152D/96	90° x 60° Coverage
EVH-1152D/99	90° x 90° Coverage
EVF-2151D	Dual 15 inch Bass Element
EVF-1181S	Single 18 inch Bass Element
DX46	Dx46 Loudspeaker Controller <sup>5</sup>
N8000	N8000 Digital Matrix Controller <sup>5</sup>
CPS2.9	CPS 2.9 Power Amplifier⁵
CPS2.12	CPS 2.12 Power Amplifier⁵
CPS4.10	CPS 4.10 Power Amplifier⁵
<b>5</b> 0	

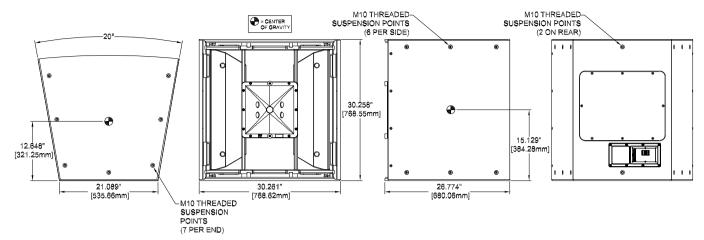
5. Contact your sales representative for voltage information.

# Horizontal and Vertical Polar Response (Active):

Polar plots (1/3 octave)



# **Dimension Drawing:**





#### Notice!

Acoustic measurement reference axis is the center of the grille.

# **Certifications and approvals**



#### 1438

Sachsenring 60, 94315 Straubing, Germany 1438-CPR-0299 Year of affixing the CE-Mark: 2013

EN 54-24:2008

Voice alarm Loudspeakers
for fire detection and fire alarm systems for buildings

Loudspeakers type: EVH-1152D/43, EVH-1152D/64, EVH-1152D/96, EVH-1152D/94, EVH-1152D/96, EVH-1152D/99 (BLK, WHT, PIB, PIW)

EN54-24 type B certification 1438/CPR/0299 with CDG cover installed (Only available in select regions).

# **Ordering information**

### EVH-1152D/64-BLK

15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 60° x 40°, EVCoat, black Order number EVH1152D64BLB

### EVH-1152D/64-WHT

15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 60° x 40°, EVCoat, white Order number EVH1152D64WLB

## EVH-1152D/64-PIB

15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 60° x 40°, EVCoat, Pl-weatherized, black

Order number EVH1152D64PBLB

### EVH-1152D/64-PIW

15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 60° x 40°, EVCoat, Plweatherized, white

Order number EVH1152D64PWLB

### EVH-1152D/64-FGB

15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 60° x 40°, EVCoat, fiberglass, black

Order number EVH1152D64-FBLB

# EVH-1152D/64-FGW

15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 60° x 40°, EVCoat, fiberglass, white

Order number EVH1152D64-FWLB

### EVH-1152D/64-BLK

15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 60° x 40°, EVCoat, black — EN54-24 certified

Order number EVH-1152D/64-BLKE

## EVH-1152D/64-WHT

15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 60° x 40°, EVCoat, white — EN54-24 certified

Order number EVH-1152D/64-WHTE

# EVH-1152D/64-PIB

15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 60° x 40°, EVCoat, Pl-weatherized, black — EN54-24 certified Order number EVH-1152D/64-PIBE

### EVH-1152D/64-PIW

15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 60° x 40°, EVCoat, Plweatherized, white — EN54-24 certified Order number EVH-1152D/64-PIWE

#### 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** 

#### 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

# HRK-3B

Horizontal rigging kit for EVH, black Order number **HRK-3B-LB** 

#### HRK-3W

Horizontal rigging kit for EVH, white Order number **HRK-3W-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

#### VRK-3B

Vertical rigging kit for EVH, black Order number **VRK-3B-LB** 

### VRK-3W

Vertical rigging kit for EVH, white Order number VRK-3W-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

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