EVH-1152D/43

#### Single 15" Two-Way Coaxial 40° x 30° Full-Range High-Efficiency Loudspeaker System



**Key Features:** 

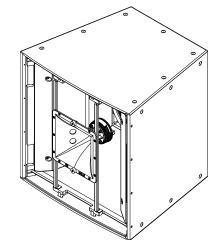
- DH7N 3" (76 mm) diaphragm, 1.4" (36 mm) exit pure titanium compression driver
- SMX2151 15" (381 mm) LF transducer with fully symmetric drive
- Advanced fourth-order crossover network with HF protection
- Coverage pattern: 40° x 30° Constant Directivity<sup>™</sup> 12" rotatable waveguide
- 106 dB sensitivity, 139 dB maximum SPL
- System rating: 500 W continuous, 2000 W peak
- Active rating: LF 400 W/HF 75 W continuous (1600 W/300 W peak)
- (28) M10 threaded suspension points
- PI and FG versions available with gland nut and stainless-steel grille

#### **General Description:**

The Electro-Voice EVH-1152D/43 is a high-power, two-way horn-loaded coaxial loudspeaker system that can be used in a variety of applications where excellent sound reinforcement, wide bandwidth directivity control, and high efficiency is required in a compact package.

The EVH-1152D/43 utilizes the DH7N, a high-output 3" titanium compression driver, coupled to a Constant Directivity™ 40° x 30° waveguide. The SMX2151 15" 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. This combination of technologies results in a smooth response to 20 kHz and excellent pattern control down to 500 Hz.

The EVH-1152D/43's features make it ideal for many fixed-install applications. The trapezoidal enclosure is constructed of weather-resistant birch, and coated with EVCoat<sup>™</sup> for protection from the elements. For maximum protection against extreme outdoor elements, a fully-weatherized fiberglass version is available. 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 lowfrequency 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:**

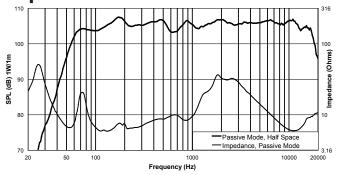
Freq. Resp	oonse <sup>1</sup> (-3 dB):	60 Hz - 17 kHz					
Freq. Ra	ange <sup>1</sup> (-10 dB):	50 Hz - 20 kHz					
Rotata	ble Coverage:	40° x 30°					
Rec. High-Pa	ss Frequency:	60 Hz					
Passive Cr	ossover Freq.:	1300 Hz					
Ax	ial Sensitivity <sup>1</sup> :	106 dB (1 W/1 m)					
Max. Ca	Iculated SPL <sup>1</sup> :	139 dB					
Passive Po	wer Handling <sup>2</sup> :	500 W continuous, 2000 W peak					
	Impedance:	8 ohms (nominal), 6.0 ohms (min.)					
LF Transducer - SMX2151, 15" (381 mm) driver							
LF Ax	ial Sensitivity⁴:	107 dB (1 W/1 m)					
LF Max. Calculated SPL:		139 dB					
LF Power Handling <sup>3</sup> :		400 W continuous, 1600 W peak					
		8 ohms (nominal), 6.1 ohms (min.)					
HF Transducer - DH7N, 3" (76 mm) diaphragm compression driver							
HF Ax	ial Sensitivity⁴:	114 dB (1 W/1 m)					
HF Max. C	alculated SPL:	139 dB					
HF Po	wer Handling <sup>3</sup> :	75 W continuous, 300 W peak					
F	IF Impedance:	8 ohms (nominal), 6.0 ohms (min.)					
Connectors:	Dual four-pin 10 AWG Phoenix/Euro Block screw-terminals		<u>PI/FG Versions -</u> CDG dual-gland- nut input panel cover included				
Enclosure:	13-ply weather- birch with EVCo		FG Version - 13-ply weather-resis- tant birch with fiberglass finish				
Grille:	Grille: 16 GA powder-coated galvanneal with rotatable logo		<u>PI/FG Versions -</u> 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" x 30.26" x 26.77" (768.6 mm x 768.6 mm x 680.1 mm)						
Weight: 145.5 lb (66.1 kg) net, 160.5 lb (72.9 kg) shipping							
<sup>1</sup> Half-space measu	rement.	<sup>3</sup> AE	S 2-1984, tested for eight hours.				

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

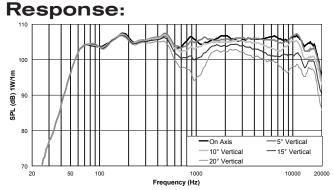
<sup>4</sup> Arithmetic averages, 300 - 1,300 Hz (LF) and 1,300 - 5,000 Hz (HF).



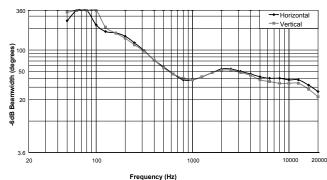
# Frequency Response & Impedance:



# **Vertical Off-Axis Frequency**

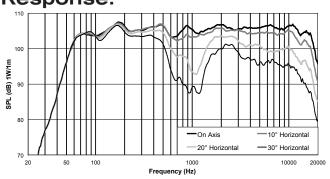


### **Beamwidth:**

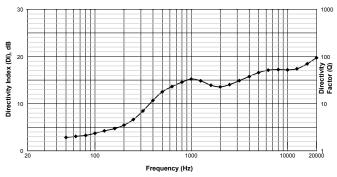


Block Diagram (biamp):

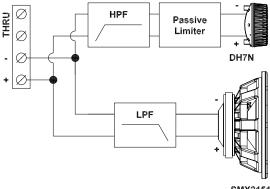
#### Horizontal Off-Axis Frequency Response:



**Directivity**:

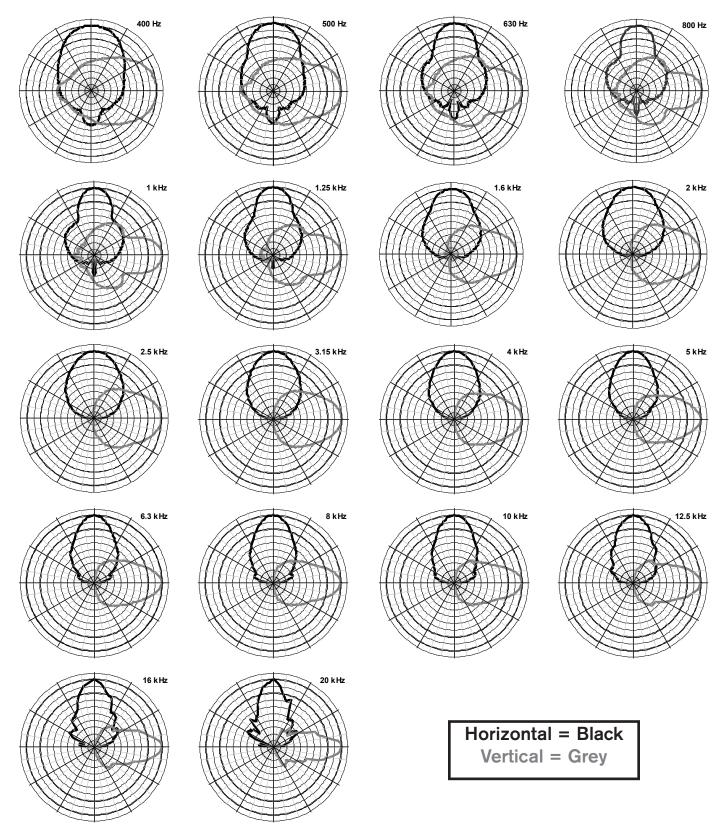


### Block Diagram (passive):

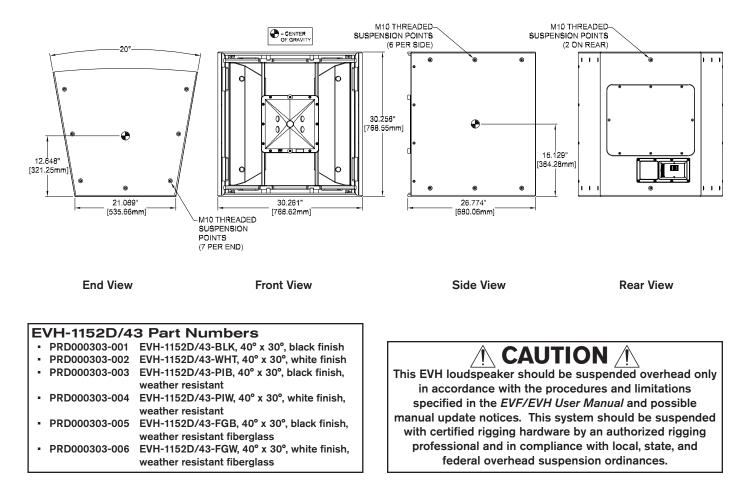


SMX2151

# Polar Plots (1/3 Octave):



#### **Dimension Drawings:**



#### Performance Match

1.					
•	PRD000304	EVH-1152D/64, 60° x 40° coverage	•	ACC000084-000	CDNL4, cover plate, dual NL4
•	PRD000305	EVH-1152D/66, 60° x 60° coverage	•	ACC000085-000	CSG, cover plate, single gland nut
· ·	PRD000306	EVH-1152D/94, 90° x 40° coverage	•	ACC000086-000	CDG, cover plate, dual gland nut
· ·	PRD000307	EVH-1152D/96, 90° x 60° coverage	•	ACC000087-000	TK-150, 70V transformer, 150W
· ·	PRD000308	EVH-1152D/99, 90° x 90° coverage	•	ACC000089-001	HRK-1B, horiz. rigging kit, EVF, black
· ·	PRD000300	EVF-2121S, dual 12" bass element	•	ACC000089-002	HRK-1W, horiz. rigging kit, EVF, white
•	PRD000302	EVF-2151D, dual 15" bass element	•	ACC000090-001	HRK-2B, horiz. rigging kit, EVF-SUB, black
· ·	CPS2.9 120V	CPS2.9, 120V power amplifier, 2 x 900W	•	ACC000090-002	HRK-2W, horiz. rigging kit, EVF-SUB, white
-	CPS2.12 120V	CPS2.12, 120V power amplifier, 2 x 1200W	•	ACC000091-001	HRK-3B, horiz. rigging kit, EVH, black
· ·	D170469	CPS4.5, 120V power amplifier, 4 x 500W	•	ACC000091-002	HRK-3W, horiz. rigging kit, EVH, white
· ·	D170466	CPS4.10, 120V power amplifier, 4 x 1000W	•	ACC000092-001	VRK-1B, vert. rigging kit, EVF, black
			•	ACC000092-002	VRK-1W, vert. rigging kit, EVF, white
			•	ACC000093-001	VRK-2B, vert. rigging kit, EVF-SUB, black
			•	ACC000093-002	VRK-2W, vert. rigging kit, EVF-SUB, white
			•	ACC000094-001	VRK-3B, vert. rigging kit, EVH, black
			·	ACC000094-002	VRK-3W, vert. rigging kit, EVH, white

Accessories

# **Electro-Voice**

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www.electrovoice.com

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