The Electro-Voice EVH-1152D/43 is a high-power, two-way horn-loaded coaxial loudspeaker system that can be used in a wide variety of applications where excellent intelligibility, wide bandwidth directivity control, and high efficiency are required in a compact, cost-effective package. For high frequencies, the EVH-1152D/43 utilizes the DH7N, a high-output 3-inch titanium compression driver, coupled to a rotatable Constant Directivity 40° x 30° 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/43 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 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

- **Freq. Response (-3 dB):** 60 Hz–17 kHz
- **Freq. Range (-10 dB):** 50 Hz–20 kHz
- **Rotatable Coverage:** 40° x 30°
- **Rec. High-Pass Frequency:** 60 Hz
- **Passive Crossover Freq.:** 1300 Hz
- **Axial Sensitivity:** 106 dB (1 W/1 m)
- **Max. Calculated SPL:** 139 dB
- **Passive Power Handling:** 500 W Continuous, 2000 W Peak
- **Impedance:** 8 Ω (nominal), 6.0 Ω (min)

<table>
<thead>
<tr>
<th>Transformer: Standard 50 Hz BW24 High Pass</th>
<th>70 V</th>
<th>100 V</th>
<th>Z nom</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 W</td>
<td>150 W</td>
<td>65 Ω</td>
<td></td>
</tr>
<tr>
<td>150 W</td>
<td>Do Not Use</td>
<td>33 Ω</td>
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</table>

<table>
<thead>
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<th>Z nom</th>
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<tr>
<td>50 W</td>
<td>100 W</td>
<td>100 Ω</td>
<td></td>
</tr>
<tr>
<td>100 W</td>
<td>200 W</td>
<td>50 Ω</td>
<td></td>
</tr>
<tr>
<td>200 W</td>
<td>400 W</td>
<td>25 Ω</td>
<td></td>
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</tbody>
</table>

- **LF Transducer - SMX2151, 15 in (381 mm) driver**
  - **LF Axial Sensitivity:** 107 dB (1 W/1 m)
  - **LF Max. Calculated SPL:** 139 dB
  - **LF Power Handling:** 400 W Continuous, 1600 W Peak
  - **LF Impedance:** 8 Ω (nominal), 6.1 Ω (min)

- **HF Transducer - DH7N, 3 in (76 mm) diaphragm compression driver**
  - **HF Axial Sensitivity:** 114 dB (1 W/1 m)
  - **HF Max. Calculated SPL:** 139 dB
  - **HF Power Handling:** 75 W Continuous, 300 W Peak
  - **HF Impedance:** 8 Ω (nominal), 6.0 Ω (min)

- **Connectors:** Dual 4-pin 10 AWG Phoenix/Euro Block screw-terminals
- **Environmental:** IEC 60529 IP55 for PI and FG versions

System overview

**Block Diagram (Biamp):**

**Block Diagram (Passive):** Standard shipping configuration

- **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)
- **Shipping Weight:** 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).
**Frequency Response and Impedance:**

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<thead>
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<th>Frequency (Hz)</th>
<th>Impedance (Ohms)</th>
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<td>3.16</td>
</tr>
<tr>
<td>100</td>
<td>10</td>
</tr>
<tr>
<td>1000</td>
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</tr>
<tr>
<td>10000</td>
<td>110</td>
</tr>
<tr>
<td>20000</td>
<td></td>
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**Beamwidth (Active):**

**Directivity (Active):**

**Horizontal Off-Axis Frequency Response (Passive):**

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<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>SPL (dB) 1W/1m</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>100</td>
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<td>10000</td>
<td>100</td>
</tr>
<tr>
<td>20000</td>
<td>110</td>
</tr>
</tbody>
</table>
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**Vertical Off-Axis Frequency Response (Passive):**

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<table>
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<tr>
<th>Frequency (Hz)</th>
<th>SPL (dB) 1W/1m</th>
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<tbody>
<tr>
<td>50</td>
<td>70</td>
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<td>100</td>
</tr>
<tr>
<td>20000</td>
<td>110</td>
</tr>
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</table>
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**Caution!**

This Electro-Voice loudspeaker should be suspended overhead only in accordance with the procedures and limitations specified. This system should be suspended with certified rigging hardware by an authorized rigging professional and in complete compliance with local, state, and federal overhead suspension ordinances.

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**Notice!**

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

**Compatible System Solutions:**

- EVH-1152D/43
- EVH-1152D/64 60° x 40° 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 Subwoofer
- EVF-1181S Single 18 inch Subwoofer
- DX46 Dx46 Loudspeaker Controller
- N8000 N8000 Digital Matrix Controller
- CPS2.9 CPS2.9 Power Amplifier
- CPS2.12 CPS 2.12 Power Amplifier
- CPS4.10 CPS 4.10 Power Amplifier

5. Contact your sales representative for available voltage versions.
Horizontal and Vertical Polar Response (Active):
Polar plots (1/3 octave)
Notice!
Acoustic measurement reference axis is the center of the grille.

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

Ordering information
EVH-1152D/43-BLK
15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 40° x 30°, EVCoat, black — EN54-24 certified
Order number EVH1152D43BLKE

EVH-1152D/43-WHT
15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 40° x 30°, EVCoat, white — EN54-24 certified
Order number EVH1152D43WHTE

EVH-1152D/43-PIB
15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 40° x 30°, PI-weatherized, black — EN54-24 certified
Order number EVH1152D43PIBE

EVH-1152D/43-PIW
15" / 2-way Full-range Systems; SMX woofer & DH7N driver - 500 W cont.; 40° x 30°, PI-weatherized, white — EN54-24 certified
Order number EVH1152D43PIWE

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