The Electro-Voice EVH-1152D/96 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/96 utilizes the DH7N, a high-output 3-inch titanium compression driver, coupled to a rotatable Constant Directivity 90° x 60° 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/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 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

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Response (-3 dB)</td>
<td>60 Hz–17 kHz</td>
</tr>
<tr>
<td>Frequency Range (-10 dB)</td>
<td>50 Hz–20 kHz</td>
</tr>
<tr>
<td>Rotatable Coverage</td>
<td>90° x 60°</td>
</tr>
<tr>
<td>Rec. High-Pass Frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Passive Crossover Frequency</td>
<td>1300 Hz</td>
</tr>
<tr>
<td>Axial Sensitivity</td>
<td>105 dB (1 W/1 m)</td>
</tr>
<tr>
<td>Max. Calculated SPL</td>
<td>138 dB</td>
</tr>
<tr>
<td>Passive Power Handling</td>
<td>500 W Continuous, 2000 W Peak</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 Ω (nominal), 6.0 Ω (min.)</td>
</tr>
<tr>
<td>Transformer: 70 V &amp; 100 V</td>
<td>37.5 W, 75 W, 130 Ω</td>
</tr>
<tr>
<td>Transformer: 70 V &amp; 100 V</td>
<td>75 W, 150 W, 65 Ω</td>
</tr>
<tr>
<td>Transformer: 70 V &amp; 100 V</td>
<td>150 W, Do Not Use, 33 Ω</td>
</tr>
<tr>
<td>Transformer: 89 Hz High Pass per EN54-24 Spectrum</td>
<td>50 W, 100 W, 100 Ω</td>
</tr>
<tr>
<td>Transformer: 89 Hz High Pass per EN54-24 Spectrum</td>
<td>100 W, 200 W, 50 Ω</td>
</tr>
<tr>
<td>Transformer: 89 Hz High Pass per EN54-24 Spectrum</td>
<td>200 W, 400 W, 25 Ω</td>
</tr>
<tr>
<td>LF Transducer - SMX2151, 15 in (381 mm) driver</td>
<td></td>
</tr>
<tr>
<td>LF Axial Sensitivity</td>
<td>106 dB (1 W/1 m)</td>
</tr>
<tr>
<td>LF Max. Calculated SPL</td>
<td>138 dB</td>
</tr>
<tr>
<td>LF Power Handling</td>
<td>400 W Continuous, 1600 W Peak</td>
</tr>
<tr>
<td>LF Impedance</td>
<td>8 Ω (nominal), 6.1 Ω (min.)</td>
</tr>
<tr>
<td>HF Transducer - DH7N, 3 in (76 mm) diaphragm compression driver</td>
<td></td>
</tr>
<tr>
<td>HF Axial Sensitivity</td>
<td>111 dB (1 W/1 m)</td>
</tr>
<tr>
<td>HF Max. Calculated SPL</td>
<td>136 dB</td>
</tr>
<tr>
<td>HF Power Handling</td>
<td>75 W Continuous, 300 W Peak</td>
</tr>
<tr>
<td>HF Impedance</td>
<td>8 Ω (nominal), 6.0 Ω (min.)</td>
</tr>
<tr>
<td>Connectors</td>
<td>Dual four-pin 10 AWG Phoenix/Euro Block screw-terminals, PI/FG Versions: CDG dual-gland-nut input panel cover included</td>
</tr>
<tr>
<td>Enclosure</td>
<td>13-ply weather-resistant birch with EVCoat, FG Version: 13-ply weather-resistant birch with fiberglass finish</td>
</tr>
</tbody>
</table>

### System overview

#### Block Diagram (Biamp):

![Block Diagram (Biamp)](image)

#### Block Diagram (Passive):

![Block Diagram (Passive)](image)

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:**

**Beamwidth (Active):**

**Horizontal Off-Axis Frequency Response:**

**Directivity (Active):**

**Vertical Off-Axis Frequency Response:**

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**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.

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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 40° x 30° Coverage
- EVH-1152D/64 60° x 40° Coverage
- EVH-1152D/66 60° x 60° Coverage
- EVH-1152D/94 90° x 40° 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
- N8000 N8000 Digital Matrix Controller
- CPS2.9 CPS 2.9 Power Amplifier
- CPS2.12 CPS 2.12 Power Amplifier
- CPS4.10 CPS 4.10 Power Amplifier

5. Contact your sales representative for voltage information.
Horizontal and Vertical Polar Response (Active):
Polar plots (1/3 octave)

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

Ordering information

**EVH-1152D/96-BLK**
15" / 2-way Full-range Systems; SMX woofer & ND2B driver or DH7N driver - 500 W cont.; 90° x 60°, EVCoat, black SMX/DH7N
Order number EVH1152D96BLB

**EVH-1152D/96-WHT**
15" / 2-way Full-range Systems; SMX woofer & ND2B driver or DH7N driver - 500 W cont.; 90° x 60°, EVCoat, white SMX/DH7N
Order number EVH1152D96WLW

**EVH-1152D/96-PIB**
15" / 2-way Full-range Systems; SMX woofer & ND2B driver or DH7N driver - 500 W cont.; 90° x 60°, Pl-weatherized, black SMX/DH7N
Order number EVH1152D96PBLB

**EVH-1152D/96-PIW**
15" / 2 Way Fullrange Systems; SMX woofer & ND2B driver or DH7N driver - 500W cont.; 90° x 60°, Pl-weatherized, white SMX/DH7N
Order number EVH1152D96PWLB

**EVH-1152D/96-FGB**
15" / 2-way Full-range Systems; SMX woofer & ND2B driver or DH7N driver - 500 W cont.; 90° x 60°, Fiberglass, black SMX/DH7N
Order number EVH1152D96-FBLB

**EVH-1152D/96-FGW**
15" / 2-way Full-range Systems; SMX woofer & ND2B driver or DH7N driver - 500 W cont.; 90° x 60°, Fiberglass, white SMX/DH7N
Order number EVH1152D96-FWLB

**EVH-1152D/96-BLKE**
15" / 2-way Full-range Systems; SMX woofer & ND2B driver or DH7N driver - 500 W cont.; 90° x 60°, EVCoat, black SMX/DH7N — EN54-24 certified
Order number EVH1152D96-BLKE

**EVH-1152D/96-PIBE**
15" / 2-way Full-range Systems; SMX woofer & ND2B driver or DH7N driver - 500 W cont.; 90° x 60°, Pl-weatherized, black SMX/DH7N — EN54-24 certified
Order number EVH1152D96-PIBE

**EVH-1152D/96-PIWE**
15" / 2-way Full-range Systems; SMX woofer & ND2B driver or DH7N driver - 500 W cont.; 90° x 60°, Pl-weatherized, white SMX/DH7N — EN54-24 certified
Order number EVH1152D96-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
<table>
<thead>
<tr>
<th><strong>TK-150</strong></th>
<th>Transformer kit for EVF &amp; EVH, 150W / 70V</th>
<th>Order number <strong>TK-150</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HRK-2B</strong></td>
<td>Horizontal rigging kit for EVF &amp; EVH full-range to EVF sub, black</td>
<td>Order number <strong>HRK-2B-LB</strong></td>
</tr>
<tr>
<td><strong>HRK-2W</strong></td>
<td>Horizontal rigging kit for EVF &amp; EVH full-range to EVF sub, white</td>
<td>Order number <strong>HRK-2W-LB</strong></td>
</tr>
<tr>
<td><strong>HRK-3B</strong></td>
<td>Horizontal rigging kit for EVH, black</td>
<td>Order number <strong>HRK-3B-LB</strong></td>
</tr>
<tr>
<td><strong>HRK-3W</strong></td>
<td>Horizontal rigging kit for EVH, white</td>
<td>Order number <strong>HRK-3W-LB</strong></td>
</tr>
<tr>
<td><strong>VRK-2B</strong></td>
<td>Vertical rigging kit for EVF &amp; EVH full-range to EVF subs, black</td>
<td>Order number <strong>VRK-2B-LB</strong></td>
</tr>
<tr>
<td><strong>VRK-2W</strong></td>
<td>Vertical rigging kit for EVF &amp; EVH full-range to EVF subs, white</td>
<td>Order number <strong>VRK-2W-LB</strong></td>
</tr>
<tr>
<td><strong>VRK-3B</strong></td>
<td>Vertical rigging kit for EVH, black</td>
<td>Order number <strong>VRK-3B-LB</strong></td>
</tr>
<tr>
<td><strong>VRK-3W</strong></td>
<td>Vertical rigging kit for EVH, white</td>
<td>Order number <strong>VRK-3W-LB</strong></td>
</tr>
</tbody>
</table>

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