1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
8. Only use attachments/accessories specified by the manufacturer.
9. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on this apparatus.

Management of WEEE (waste electrical and electronic equipment) (applicable in Member States of the European Union and other European countries with individual national policies on the management of WEEE) The symbol on the product or on its packaging indicates that this product may not be treated as regular household waste, but has to be disposed through returning it at an Electro-Voice dealer.

Precautions

- Do not use Live X loudspeakers in an environment where temperatures exceed +40°C (104°F).
- Never expose a Live X loudspeaker to rain, water, or high moisture.
- Electro-Voice Live X loudspeakers are easily capable of generating sound pressure levels sufficient to cause permanent hearing damage to anyone within normal coverage distance. Caution should be taken to avoid prolonged exposure to sound pressure levels exceeding 90 dB.

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Description

Thank you for choosing an Electro-Voice Live X passive loudspeaker system. Please take time to consult this manual to understand all the features built into your Electro-Voice system and fully utilize its performance capabilities.

Clear, powerful and musical Electro-Voice loudspeakers command the stage at high-profile venues and major events worldwide. Born stage-ready, the Live X series includes powered and passive models that all feature EV-engineered components in solid wood cabinets. Wherever performance matters, Live X is serious gear for serious sound.

System Features

**ELX 112 – 12" Two-Way Passive Loudspeaker**
The versatile ELX112 loudspeaker is a compact, powerful choice with real stage presence, for sound reinforcement and stage monitoring applications.

- DH-1K 39mm (1.5") Titanium Diaphragm Compression Driver
- EVS-12K 305mm (12") Woofer
- 55 Hz – 20 kHz frequency range
- 94 dB SPL sensitivity; 132 dB max SPL
- 250 W continuous and 1000 W peak power handling
- Pole-mounts or stacks with Live X Subwoofers
- High Frequency Waveguide with 90° x 50° Coverage Pattern
- 60° Monitor Angle
- 15mm Plywood Enclosure, Internally Braced, with Textured Paint

**ELX 115 – 15" Two-Way Passive Loudspeaker**
A powerful step up from the ELX112, the ELX115 features a 15" woofer that delivers extended low-frequency response for bigger sound in larger rooms.

- DH-1K 39mm (1.5") Titanium Diaphragm Compression Driver
- EVS-15K 381mm (15") Woofer
- 50 Hz – 20 kHz frequency range
- 95 dB SPL sensitivity; 134 dB max SPL
- 400 W continuous and 1600 W peak power handling
- Pole-mounts or stacks with Live X Subwoofers
- High Frequency Waveguide with 90° x 50° Coverage Pattern
- 60° Monitor Angle
- 15mm Plywood Enclosure, Internally Braced, with Textured Paint
System Features (cont’)

**ELX 215 – Dual 15” Two-Way Loudspeaker**
This twin woofer configuration delivers real low-end punch — ideal for applications that demand high-volume output and an ultra-wide frequency response from a single cabinet.

- DH-1K 39mm (1.5”) Titanium Diaphragm Compression Driver
- Dual EVS-15K 381mm (15”) Woofers
- 38 Hz – 20 kHz frequency range
- 96 dB SPL sensitivity; 137 dB max SPL
- 600 W continuous and 2400 W peak power handling
- High Frequency Waveguide with 90° x 50° Coverage Pattern
- 15mm Plywood Enclosure, Internally Braced, with Textured Paint

**ELX 118 – 18” Passive Subwoofer**
Optimized for performance with the ELX112 and ELX115, the ELX118 adds a full, deep, low-frequency punch that you can hear and feel.

- EVS-18K 457mm (18”) Woofer provides extended low-frequency output
- 35 Hz – 200 Hz frequency range
- 96 dB SPL sensitivity; 134 dB max SPL
- 400 W continuous and 1600 W peak power handling
- Supports pole-mounted or stacked Live X Loudspeakers
- 15mm Plywood Enclosure, Internally Braced, with Textured Paint
Floor Monitor
Electro-Voice ELX112 and ELX115 loudspeakers may be used as a floor monitor by placing the speaker on the integral monitor angle. Make sure to:

- Place the speaker on a level, stable surface that is solid and secure.
- Route cables so that performers, production crew and audience members will not trip over the cables. Secure cables with wire ties or tape whenever possible.

See Figures 1a and 1b for optimal coverage areas in front of the loudspeaker when in monitor position.
Tripod

Electro-Voice ELX112 and ELX115 loudspeakers include 35mm (1-3/8”) stand mounts to allow mounting on tripod stands or above an ELX118. Make sure to:

- Check the specifications of the speaker stand to be certain it is capable of supporting the weight of the speaker.
- Check that the speaker stand is placed on a flat, stable surface and be sure to fully extend the legs of the stand. Do not try to make the stand “taller” and compromise its structural integrity.
- Route cables and position the stand so that performers, production crew and audience members will not trip over the stand or cables and pull the speaker system over. Secure cables with wire ties or tape whenever possible.
- Do not attempt to suspend more than one speaker on a stand designed for a single speaker.
- Unless you are confident that you can safely handle lifting the weight of the speaker onto the stand, ask another person to help you place it.

**Figure 2a:**
ELX112 / ELX115 on Tripod Stand

**Figure 2b:**
Live X Full-Range/Sub Stack with Pole Mount
Recommended Configurations

Basic Stereo System using ELX112’s or ELX115’s

**NL4 Pin Configuration**

|          | Used
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pins 1+ and 1-</td>
<td>Used</td>
</tr>
<tr>
<td>Pins 2+ and 2-</td>
<td>Not Used</td>
</tr>
</tbody>
</table>

**Amplifier Load (per Output Channel)**

<table>
<thead>
<tr>
<th># of Speakers</th>
<th>Nominal</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8 Ohms</td>
<td>7 Ohms</td>
</tr>
<tr>
<td>2</td>
<td>4 Ohms</td>
<td>3.5 Ohms</td>
</tr>
<tr>
<td>3</td>
<td>2.7 Ohms</td>
<td>2.3 Ohms</td>
</tr>
<tr>
<td>4</td>
<td>2 Ohms</td>
<td>1.8 Ohms</td>
</tr>
</tbody>
</table>

Caution: Do not exceed the maximum load rating of the amplifier.

45 Hz high pass filter (from mixer or processor)

Mixer

**Amplifier Load (per Output Channel)**

Q66 Amplifier

ELX112 or ELX115

Output A

Input A

Output B

Input B
Linking ELX118 subwoofers to ELX112's or ELX115's

This configuration allows a user to increase the low frequency performance without using additional amplifier channels.

**Recommended Configurations**

---

**NL4 Pin Configuration**

<table>
<thead>
<tr>
<th>Pins</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1+ and 1-</td>
<td>Used</td>
</tr>
<tr>
<td>2+ and 2-</td>
<td>Not Used</td>
</tr>
</tbody>
</table>

**Amplifier Load (per Output Channel)**

<table>
<thead>
<tr>
<th># of Subwoofer/Full-Range Combinations</th>
<th>Nominal</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6 Ohms</td>
<td>4.2 Ohms</td>
</tr>
<tr>
<td>2</td>
<td>3 Ohms</td>
<td>2.1 Ohms</td>
</tr>
</tbody>
</table>

⚠️ Caution: Do not exceed the maximum load rating of the amplifier.

---

**30 Hz high pass filter (from mixer or processor)**

---

**Mixer**

---

**Q66 Amplifier**

---

**Output A**

---

**Output B**

---

**ELX112 or ELX115**

---

**ELX118**

---

---
Recommended Configurations (cont’)

Basic Stereo System using ELX215’s

<table>
<thead>
<tr>
<th>NL4 Pin Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pins 1+ and 1-</td>
</tr>
<tr>
<td>Pins 2+ and 2-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Amplifier Load (per Output Channel)</th>
</tr>
</thead>
<tbody>
<tr>
<td># of Speakers</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

Caution: Do not exceed the maximum load rating of the amplifier.

√35 Hz high pass filter (from mixer or processor)
Using multiple ELX112’s or ELX115’s as stage monitors

**Recommended Configurations (cont’)**

- **ELX112’s or ELX115’s (Monitor Position)**
- **Mixer**
- **Amplifier**

**Amplifier Load (per Output Channel)**

<table>
<thead>
<tr>
<th># of Speakers</th>
<th>Nominal</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8 Ohms</td>
<td>7 Ohms</td>
</tr>
<tr>
<td>2</td>
<td>4 Ohms</td>
<td>3.5 Ohms</td>
</tr>
<tr>
<td>3</td>
<td>2.7 Ohms</td>
<td>2.3 Ohms</td>
</tr>
<tr>
<td>4</td>
<td>2 Ohms</td>
<td>1.8 Ohms</td>
</tr>
</tbody>
</table>

**Caution:** Do not exceed the maximum load rating of the amplifier.

**45 Hz high pass filter (from mixer or processor)**

**NL4 Pin Configuration**

<table>
<thead>
<tr>
<th>Pins</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1+ and 1-</td>
<td>Used</td>
</tr>
<tr>
<td>2+ and 2-</td>
<td>Not Used</td>
</tr>
</tbody>
</table>
## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>ELX 112  (F01U170823)</th>
<th>ELX 115  (F01U170824)</th>
<th>ELX 215  (F01U170826)</th>
<th>ELX 118  (F01U170825)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freq. Response (-3 dB):</td>
<td>82 Hz - 18 kHz&lt;sup&gt;1&lt;/sup&gt;</td>
<td>75 Hz - 18 kHz&lt;sup&gt;1&lt;/sup&gt;</td>
<td>62 Hz - 18 kHz&lt;sup&gt;1&lt;/sup&gt;</td>
<td>50 Hz - 100 Hz&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>Freq. Range (-10 dB):</td>
<td>55 Hz - 20 kHz&lt;sup&gt;3&lt;/sup&gt;</td>
<td>50 Hz - 20 kHz&lt;sup&gt;3&lt;/sup&gt;</td>
<td>38 Hz - 20 kHz&lt;sup&gt;4&lt;/sup&gt;</td>
<td>35 Hz - 200 Hz&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>Axial Sensitivity:</td>
<td>94 dB</td>
<td>95 dB</td>
<td>96 dB</td>
<td>96 dB</td>
</tr>
<tr>
<td>Max. Measured SPL:&lt;sup&gt;1&lt;/sup&gt;</td>
<td>132 dB</td>
<td>134 dB</td>
<td>137 dB</td>
<td>134 dB</td>
</tr>
<tr>
<td>Recommended HP Freq.:</td>
<td>45 Hz</td>
<td>40 Hz</td>
<td>35 Hz</td>
<td>30 Hz</td>
</tr>
<tr>
<td>Coverage (Horiz. x Vert.):</td>
<td>90° x 50°</td>
<td>90° x 50°</td>
<td>Omnidirectional</td>
<td>Omnidirectional</td>
</tr>
<tr>
<td>Power Handling:</td>
<td>250W Continuous, 1000W Peak</td>
<td>400W Continuous, 1600W Peak</td>
<td>600W Continuous, 2400W Peak</td>
<td>400W Continuous, 1600W Peak</td>
</tr>
<tr>
<td>LF Transducer(s):</td>
<td>(1) EVS-12K, 305mm (12&quot;) Woofer</td>
<td>(1) EVS-15K, 381mm (15&quot;) Woofer</td>
<td>(2) EVS-15K, 381mm (15&quot;) Woofers</td>
<td>(1) EVS-18K, 457mm (18&quot;) Woofer</td>
</tr>
<tr>
<td>HF Transducer:</td>
<td>DH-1K, 39mm (1.5&quot;) Titanium Diaphragm Compression Driver</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Crossover Frequency:</td>
<td>2.1 kHz</td>
<td>1.7 kHz</td>
<td>2.1 kHz</td>
<td>2.1 kHz</td>
</tr>
<tr>
<td>Nominal Impedance:</td>
<td>8 Ohms</td>
<td>4 Ohms</td>
<td>8 Ohms</td>
<td>8 Ohms</td>
</tr>
<tr>
<td>Minimum Impedance:</td>
<td>7.0 Ohms</td>
<td>7.4 Ohms</td>
<td>3.7 Ohms</td>
<td>6.7 Ohms</td>
</tr>
<tr>
<td>Connectors:</td>
<td>Dual NL4</td>
<td>Dual NL4</td>
<td>Dual NL4</td>
<td>Dual NL4</td>
</tr>
<tr>
<td>Enclosure Material:</td>
<td>9-ply, 15mm Plywood, Internally Braced, with Textured Paint</td>
<td>18GA Steel with Black Powdercoat</td>
<td>18GA Steel with Black Powdercoat</td>
<td>18GA Steel with Black Powdercoat</td>
</tr>
<tr>
<td>Grille:</td>
<td>TSS-1, Aluminum Tripod Stand</td>
<td>TSP-1, Tripod Kit Includes (2) Tripod Stands and Carrying Case</td>
<td>N/A</td>
<td>ASP-1, Steel Subwoofer Stand</td>
</tr>
<tr>
<td>Dimensions (H x W x D):</td>
<td>607mm x 362mm x 340mm (23.89&quot; x 14.25&quot; x 13.41&quot;)</td>
<td>708mm x 432mm x 382mm (27.89&quot; x 17.02&quot; x 15.05&quot;)</td>
<td>1154mm x 432mm x 501mm (45.44&quot; x 17.02&quot; x 19.73&quot;)</td>
<td>661mm x 507mm x 574mm (26.02&quot; x 19.98&quot; x 22.60&quot;)</td>
</tr>
<tr>
<td>Net Weight:</td>
<td>16.0 kg (35.2 lbs)</td>
<td>21.9 kg (48.2 lbs)</td>
<td>40.7 kg (89.6 lbs)</td>
<td>30.6 kg (67.4 lbs)</td>
</tr>
<tr>
<td>Shipping Weight:</td>
<td>19.9 kg (43.8 lbs)</td>
<td>26.6 kg (58.6 lbs)</td>
<td>48.4 kg (106.6 lbs)</td>
<td>37.2 kg (81.9 lbs)</td>
</tr>
<tr>
<td>Accessories:</td>
<td>TSS-1, Aluminum Tripod Stand</td>
<td>TSP-1, Tripod Kit Includes (2) Tripod Stands and Carrying Case</td>
<td>N/A</td>
<td>ASP-1, Steel Subwoofer Stand</td>
</tr>
</tbody>
</table>

<sup>1</sup> Full Space Measurement  
<sup>2</sup> Half Space Measurement  
<sup>3</sup> Max SPL is measured at 1m using broadband pink noise at rated peak power rating.
Dimensions

**ELX 112**

Bottom View

Front View

Right View

Rear View

**ELX 115**

Bottom View

Front View

Right View

Rear View
Dimensions (cont')

**ELX 118**

- Top View
- Front View
- Right View
- Rear View

**ELX 215**

- Bottom View
- Front View
- Right View
- Rear View
Frequency Response Graphs

Live X Model Reference Table

<table>
<thead>
<tr>
<th>System Model</th>
<th>Coverage</th>
<th>Finish</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELX112</td>
<td>90° x 50°</td>
<td>Black</td>
<td>F01U170823</td>
</tr>
<tr>
<td>ELX115</td>
<td>90° x 50°</td>
<td>Black</td>
<td>F01U170824</td>
</tr>
<tr>
<td>ELX118</td>
<td>Omnidirectional</td>
<td>Black</td>
<td>F01U170825</td>
</tr>
<tr>
<td>ELX215</td>
<td>90° x 50°</td>
<td>Black</td>
<td>F01U170826</td>
</tr>
</tbody>
</table>

Warranty Information

## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause(s)</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. No Sound</td>
<td>Amplifier</td>
<td>Connect a known working test speaker to the amplifier outputs. If there is no sound, check that all the electronics are on, the signal routing is correct, the source is active, the volume is turned up, and so on. Correct/repair/replace as necessary. If there is sound, the problem is in the wiring.</td>
</tr>
<tr>
<td></td>
<td>Wiring</td>
<td>Verify that you have connected the correct wire pairs to the amplifier. Play something at low level through the amplifier (for example, from a CD player or tuner). Connect the test speaker in parallel with the malfunctioning line. If the sound level has gone or is very weak, the line has a short in it (possibly a severe scrape, pinch, or staple puncture). If the sound level is normal, the wire is open (possibly a cut wire or a missed connection). Using the test speaker, move down the line and test each connection/junction until you find the problem and correct it. Observe proper polarity.</td>
</tr>
<tr>
<td>2. Poor Low Frequency Response</td>
<td>Speakers wired out-of-polarity</td>
<td>When two speakers are connected out of polarity, the low frequencies will cancel each other acoustically. Carefully observe the wire markings or tracers on your speaker wires. Verify that the amplifier (+) terminal is connected to pin 1+ of the NL4 connector and the amplifier (-) terminal is connected to pin 1- of the NL4 connector.</td>
</tr>
<tr>
<td>3. Intermittent output such as crackling or distortion</td>
<td>Faulty Connection</td>
<td>Check all connections at amplifier and speakers to ensure they are all clean and tight. If the problem persists, it may be in the amplifier or wiring. See Problem 1 above.</td>
</tr>
<tr>
<td>4. Constant noise such as buzzing, hissing, humming</td>
<td>Defective amplifier or other electronic device</td>
<td>If the noise is present but no program material is playing, the likely cause is the signal chain in the electronics. Evaluate each component as necessary to isolate the problem.</td>
</tr>
<tr>
<td></td>
<td>Poor system grounding or ground loop</td>
<td>Check and correct the system grounding, as required.</td>
</tr>
</tbody>
</table>

If these suggestions do not solve your problem, contact your nearest Electro-Voice dealer or Electro-Voice distributor.