## Electro-Voice EKX15

# Electro-Voice EKX15 15-inch 2-Way Full Range 1600W Passive Loudspeaker User Manual

Model: EKX15 | Brand: Electro-Voice

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your Electro-Voice EKX15 passive loudspeaker. The EKX15 is a high-performance, full-range loudspeaker designed for professional sound reinforcement applications. It combines robust construction with advanced acoustic design to deliver clear and powerful audio.

## 2. KEY FEATURES

- **High Power Handling:** 1600 W peak power, delivering 132 dB peak SPL.
- **EV-Patented SST Waveguide:** Signal Synchronized Transducers (SST) waveguide design ensures precise and consistent coverage.
- **Durable Construction:** Lightweight, compact 15-mm wood enclosure with internal bracing and a durable EVCoat finish.
- **Versatile Mounting:** Eight M10 threaded mounting points, aluminum pole mounts, and all-metal handles for flexible setup.
- **Optimized Coverage:** 90° x 60° pattern for optimal coverage on mid-size stages, with a 40° monitor angle and rubber feet.

## 3. SETUP

The EKX15 is a passive loudspeaker and requires an external amplifier for operation. Ensure your amplifier is capable of delivering sufficient power to the speaker without clipping.

### 3.1 Unpacking and Inspection

Carefully remove the loudspeaker from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. If damage is found, contact your dealer immediately.

### 3.2 Placement

The EKX15 can be used in various configurations:

- **Pole Mount:** Utilize the integrated pole mount socket for stand-alone applications.
- **Floor Monitor:** The cabinet design allows for use as a floor monitor with a 40° angle.
- **Suspension:** Use the M10 threaded mounting points for suspended installations. Consult a qualified professional for rigging.

Figure 1: Front view of the Electro-Voice EKX15 loudspeaker. This image shows the speaker's front grille and the Electro-Voice logo, highlighting its robust and professional appearance.

Figure 2: Angled view of the Electro-Voice EKX15 loudspeaker. This perspective showcases the speaker's cabinet design, including the integrated handles for portability.
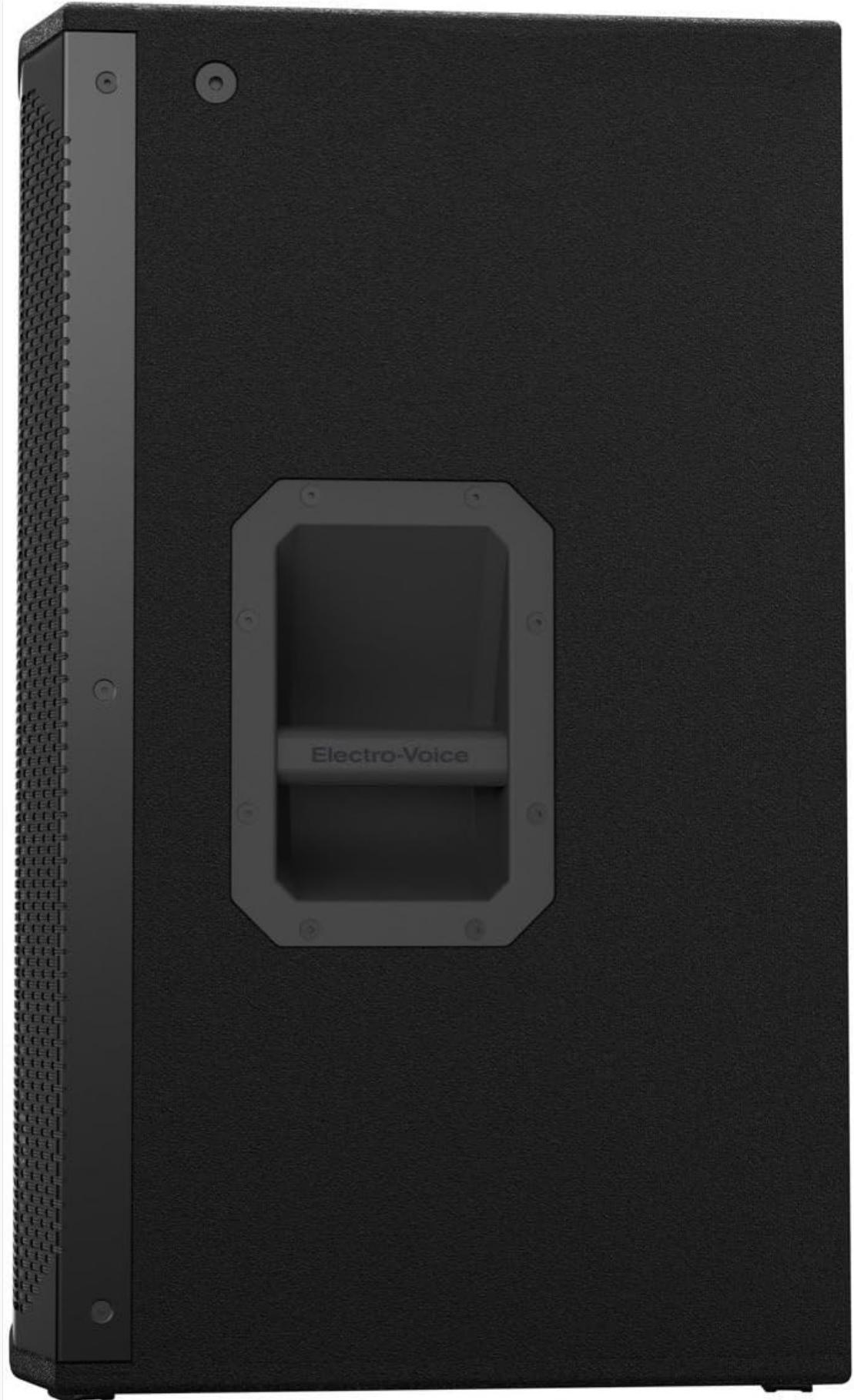
Figure 3: Side view of the Electro-Voice EKX15 loudspeaker. This image emphasizes the ergonomic handle design for easy transport and positioning.

Figure 4: Bottom view of the Electro-Voice EKX15 loudspeaker. This view highlights the pole mount socket and rubber feet for stable placement.
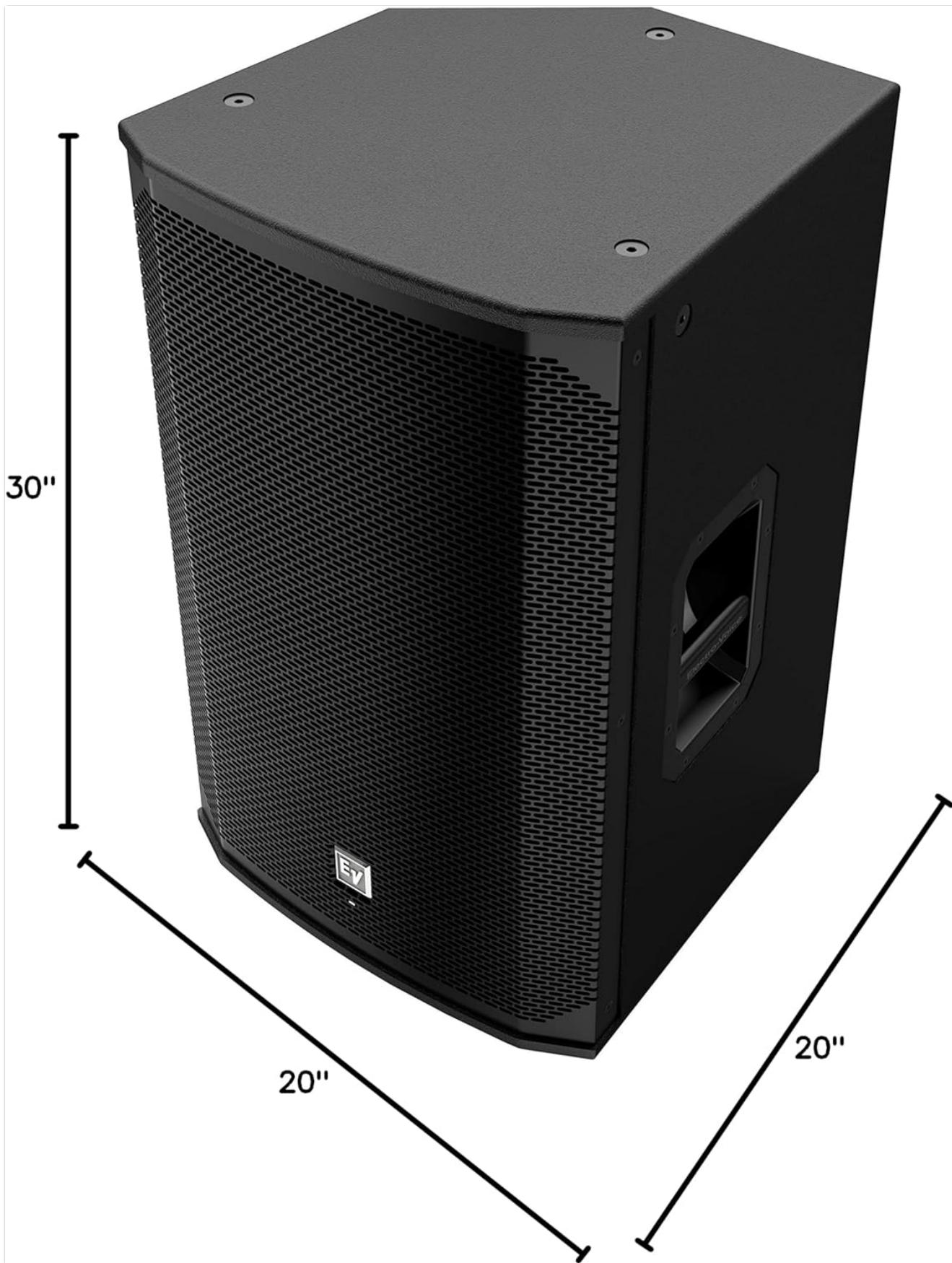
Figure 5: Dimensions of the Electro-Voice EKX15 loudspeaker. This image provides a visual representation of the speaker's physical size, indicating its 20"D x 30"W x 20"H dimensions.

## 4. CONNECTIONS

Connect the EKX15 to your external amplifier using high-quality speaker cables. The speaker features two NL4 (Speakon-compatible) connectors for input and parallel output. Ensure proper polarity when making connections.

### 4.1 Connecting to an Amplifier

1. Ensure your amplifier is turned off before making any connections.
2. Connect a speaker cable from the amplifier's output to one of the NL4 input connectors on the EKX15.
3. If connecting multiple passive speakers, you can use the parallel output connector on the EKX15 to link to another speaker. Ensure the total impedance matches your amplifier's capabilities.

### 4.2 Cable Requirements

Use professional-grade speaker cables with appropriate gauge for the length of the run and power requirements. Avoid using instrument cables for speaker connections.

Video 1: Overview of an Electro-Voice EKX-12 Passive Loudspeaker. This video demonstrates the features and connectivity options of a similar passive speaker in the EKX series, including input/output connections and general handling. While showing an EKX-12, the principles apply to the EKX15.

## 5. OPERATION

Once connected to a suitable amplifier, the EKX15 is ready for operation. Always ensure your amplifier's volume is set to minimum before powering on to prevent sudden loud noises.

### 5.1 Powering On

1. Ensure all connections are secure.
2. Turn on your audio source (mixer, etc.).
3. Turn on your external amplifier.
4. Gradually increase the amplifier's volume to the desired listening level.

### 5.2 Powering Off

1. Decrease the amplifier's volume to minimum.
2. Turn off the amplifier.
3. Turn off your audio source.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your EKX15 loudspeaker.

### 6.1 Cleaning

Clean the cabinet with a soft, dry cloth. Do not use abrasive cleaners or solvents. The grille can be gently vacuumed to remove dust.

### 6.2 Storage

When not in use, store the loudspeaker in a dry, temperature-controlled environment. If transporting, use appropriate protective covers or cases.

## 7. TROUBLESHOOTING

If you encounter issues with your EKX15, refer to the following common troubleshooting steps:

- **No Sound:** Check all cable connections (speaker to amplifier, source to amplifier). Ensure the amplifier is powered on and its volume is up. Verify the audio source is active.
- **Distorted Sound:** Reduce the volume on your amplifier and audio source. Ensure the amplifier is not clipping (indicated by a clip LED). Check for damaged speaker cables.
- **Intermittent Sound:** Inspect all cables for loose connections or damage. Try swapping cables to isolate the issue.

If the problem persists after performing these checks, contact Electro-Voice customer support or a qualified service technician.

## 8. SPECIFICATIONS

| Feature | Specification |
| --- | --- |
| Model Name | EKX-15 |
| Speaker Type | 2-Way Full Range Passive Loudspeaker |
| Speaker Size | 15 Inches |
| Woofer Diameter | 15 Inches |
| Tweeter Diameter | 1 Inches |
| Speaker Maximum Output Power | 1600 Watts (Peak) |
| Axial Sensitivity (SPL, 1 W @ 1 m) | 96dB (Full Space Measurement) |
| Product Dimensions | 20"D x 30"W x 20"H |
| Item Weight | 62.5 Pounds |
| Material | Wood |
| Mounting Type | Floor Standing, Pole Mount, Suspension (M10) |
| Color | Black |
| UPC | 800549772136 |

## 9. WARRANTY AND SUPPORT

The Electro-Voice EKX15 loudspeaker comes with a Limited Warranty. For detailed warranty information, service, or technical support, please refer to the official Electro-Voice website or contact your authorized dealer.

**Online Resources:** Visit the Electro-Voice Store on Amazon