

Electro-Voice EKX15SP

Electro-Voice EKX15SP 15" 1300W Powered Subwoofer User Manual

Model: EKX15SP

1. PRODUCT OVERVIEW

The Electro-Voice EKX15SP is a 15-inch 1300W powered subwoofer designed for professional sound reinforcement applications. It combines Electro-Voice's renowned sound quality and reliability with advanced technology, making it suitable for musicians, DJs, and small to medium-sized live, club, and installed sound setups. Key features include QuickSmartDSP for best-in-class processing, Cardioid Control Technology for directional bass, and a robust, lightweight wood enclosure.



Figure 1: Electro-Voice EKV15SP Powered Subwoofer

2. SAFETY INFORMATION

Before operating the EKV15SP subwoofer, please read and understand all safety instructions. This unit is designed for professional use and requires careful handling to prevent electric shock, fire, or damage to the equipment. Always ensure proper grounding and use only the provided power cord. Do not expose the unit to rain or moisture. Refer to the full safety manual for detailed precautions.

3. WHAT'S IN THE BOX

- Electro-Voice EKV15SP Powered Subwoofer
- US power cord
- User Manual (this document)

4. CONTROLS AND CONNECTIONS

The rear panel of the EKV15SP subwoofer features all necessary inputs, outputs, and controls for seamless integration into your audio system. Familiarize yourself with these components before setup.



Figure 2: EKK15SP Rear Panel

Key Controls:

- **QuickSmartDSP Knob:** Single-knob user interface for intuitive menu navigation via LCD. Push to access DSP settings.
- **Master Volume:** Controls the overall output level of the subwoofer.
- **Input Level Controls:** Individual gain controls for Input 1 and Input 2.
- **Power Switch:** Turns the unit on or off.

Connections:

- **XLR/TRS Combo Inputs:** Two inputs for connecting audio sources (e.g., mixer, other speakers).
- **XLR Outputs:** Two outputs for system expansion to additional loudspeakers or subwoofers.
- **AC Power Inlet:** For connecting the supplied US power cord.

5. SETUP

Proper setup ensures optimal performance and safety. The EKK15SP can be used in floor-standing or tabletop mount configurations.

5.1 Initial Placement

- Place the subwoofer on a stable, level surface.

- Ensure adequate ventilation around the unit.
- For optimal bass response, consider placing the subwoofer near a wall or corner, but avoid direct corners if bass becomes boomy.

5.2 Power Connection

1. Ensure the power switch is in the OFF position.
2. Connect the supplied US power cord to the AC power inlet on the rear panel.
3. Plug the other end of the power cord into a grounded electrical outlet.

5.3 Audio Connections

1. Connect your audio source (e.g., mixer, full-range speakers) to the XLR/TRS Combo Inputs on the EKX15SP using appropriate XLR cables.
2. If connecting additional subwoofers or full-range speakers, use the XLR Outputs.

6. OPERATION

The EKX15SP features QuickSmartDSP for easy configuration and optimization of your sound system.

6.1 QuickSmartDSP Interface

The single-knob user interface and LCD allow for intuitive menu navigation. Push the knob to enter the DSP menu.

- **Presets:** Choose from four factory presets: *Music*, *Live*, *Speech*, *Club*. These optimize the subwoofer's response for different applications.
- **Sub/Top System-Match Crossovers:** Configure the crossover frequency to seamlessly integrate the subwoofer with your full-range speakers.
- **Three-Band EQ:** Adjust the low, mid, and high frequencies for fine-tuning the sound.
- **User-Programmable Presets:** Store up to five custom settings for quick recall.

6.2 Gain Structure and Monitoring

- **Input Level Control:** Adjust individual input levels to prevent clipping.
- **Master Volume:** Set the overall output volume.
- **Limiter Status:** The LCD provides visual monitoring of the limiter status, indicating when the signal is approaching or reaching its maximum output. Adjust input levels if the limiter is frequently active.

6.3 Cardioid Control Technology

The EKX15SP features Cardioid Control Technology, which allows the subwoofer's output to be steered towards the audience. This can achieve up to 35 dB reduction of low-frequency sound on stage when multiple subwoofers are deployed, reducing stage clutter and improving sound clarity for performers.

Your browser does not support the video tag.

Video 1: Electro-Voice EKX Series Overview. This video highlights the features and benefits of the EKX series, including the QuickSmartDSP and Cardioid Control Technology.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your EKX15SP subwoofer.

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure the fan and ventilation grilles on the rear panel are free from dust and obstructions to maintain proper intelligent thermal management.
- **Storage:** When not in use, store the subwoofer in a dry, temperate environment, protected from dust and extreme temperatures.
- **Enclosure:** The lightweight, compact 15-mm wood enclosure with internal bracing and durable EVCoat finish is designed for resilience. Avoid impacts that could damage the cabinet.

8. TROUBLESHOOTING

If you encounter issues with your EKX15SP subwoofer, refer to the following common troubleshooting steps:

- **No Power:** Check the power cord connection, the power outlet, and the power switch. Ensure the unit is receiving power.
- **No Sound:** Verify all audio cables are securely connected. Check the input levels on the subwoofer and your audio source. Ensure the DSP settings are correctly configured (e.g., correct preset, crossover settings).
- **Distorted Sound:** Reduce the input level from your audio source and on the subwoofer. Check for damaged cables. Ensure the limiter is not constantly engaged.
- **Overheating:** Ensure the fan and ventilation grilles are clear. Operate the unit in a well-ventilated area. The intelligent thermal management system will protect the unit, but prolonged overheating can affect performance.

If problems persist, contact Electro-Voice customer support.

9. SPECIFICATIONS

Detailed technical specifications for the Electro-Voice EKX15SP Powered Subwoofer:

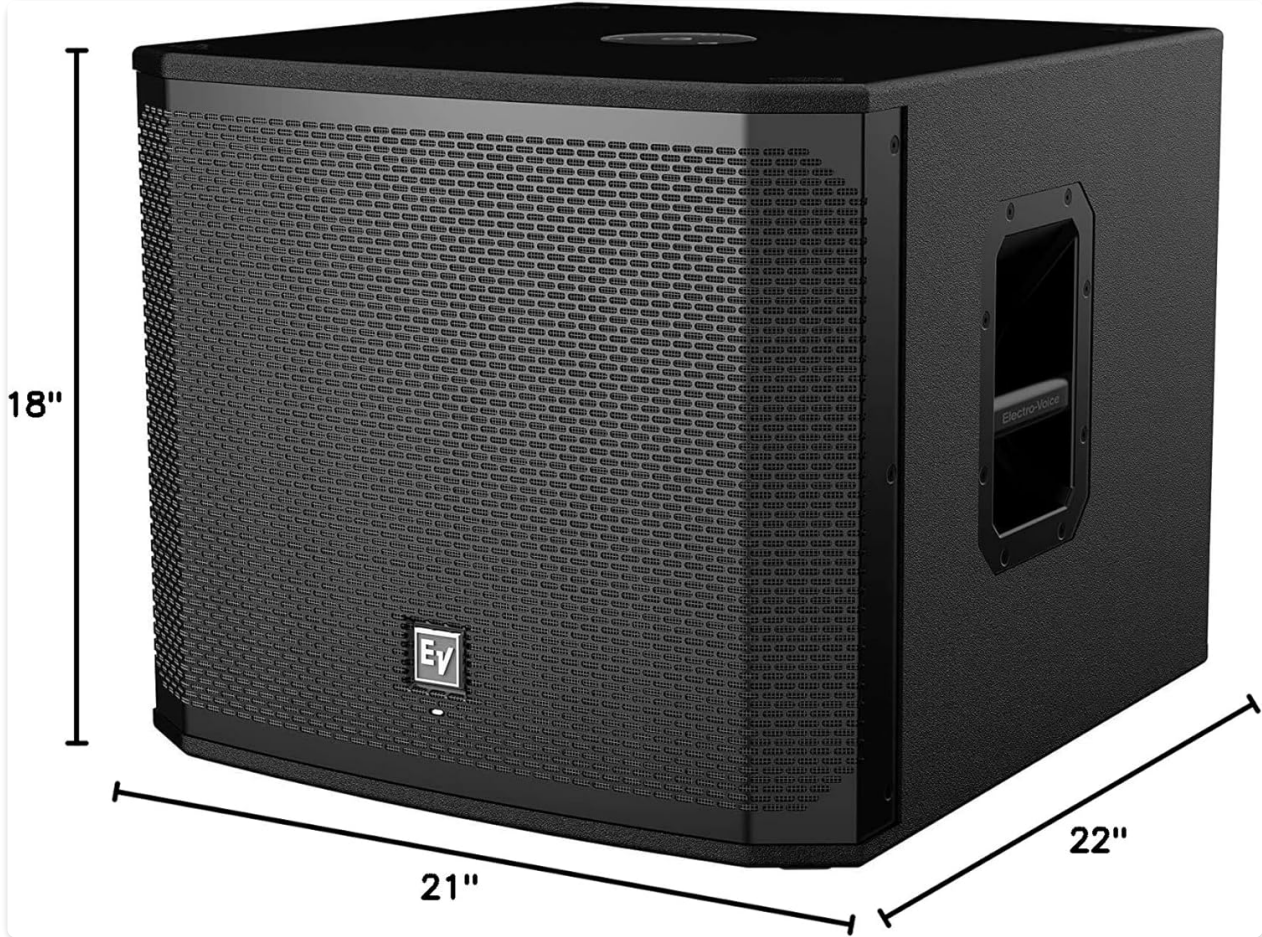


Figure 3: EKX15SP Dimensions

Feature	Specification
Brand	Electro-Voice
Model Number	EKX15SPUS
Speaker Type	Powered Subwoofer
Woofer Diameter	15 Inches
Speaker Maximum Output Power	1300 Watts
Peak SPL	Up to 133 dB
Amplifier Type	Class D
Connectivity Technology	XLR
Audio Output Mode	Stereo
Mounting Type	Floor Standing, Tabletop Mount
Enclosure Material	Stainless Steel (wood enclosure with EVCoat finish)
Item Dimensions (D x W x H)	21"D x 22"W x 18"H
Item Weight	73.5 Pounds
Power Source	Corded Electric

Control Method	Voice (via DSP knob)
Additional Features	QuickSmartDSP, Cardioid Control Technology, Intelligent Thermal Management

10. WARRANTY

The Electro-Voice EKX15SP Powered Subwoofer comes with a **3-year limited warranty**. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the warranty card included with your product or visit the official Electro-Voice website.

11. SUPPORT

For technical assistance, product inquiries, or service requests, please contact Electro-Voice customer support through their official website or authorized service centers. You can find contact information and FAQs on the Electro-Voice support page.