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Electro-Voice EKX12P

Electro-Voice EKX12P Powered Loudspeaker User Manual

Model: EKX12P

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Electro-Voice EKX12P 12-inch 2-Way Full Range 1500W Powered Loudspeaker. Please read this manual thoroughly before use to ensure proper setup, operation, and maintenance. Retain this manual for future reference.



Image 1.1: Front view of the Electro-Voice EKX12P Powered Loudspeaker, showcasing its robust grille and compact design.

2. IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.

- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

3. PACKAGE CONTENTS

Upon unpacking your Electro-Voice EKX12P loudspeaker, please verify that all listed components are present and in good condition.

- Electro-Voice EKX12P Powered Loudspeaker
- Power Cable
- User Manual (this document)
- K&M Speaker Stand Package (2 x 21456 Adjustable Speaker Stand, Carry Case, 5 Year Manufacturer's Warranty) -
Note: This item is listed as an included component in some product specifications. Please check your specific purchase for confirmation.

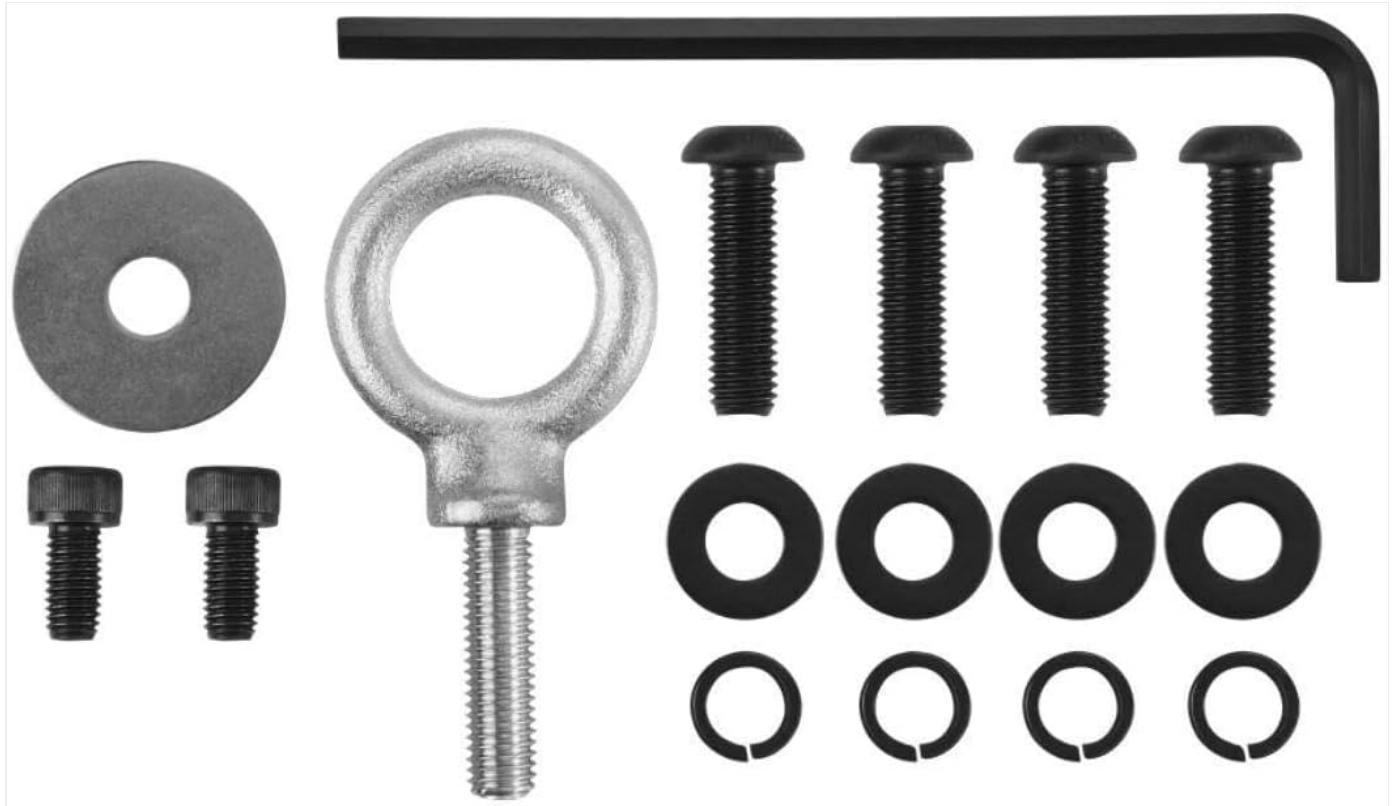


Image 3.1: Example of mounting hardware and accessories that may be included or available separately for the EKX12P loudspeaker.

4. KEY FEATURES

The Electro-Voice EKX12P loudspeaker is designed with advanced features for superior audio performance and versatility:

- **QuickSmartDSP:** Features best-in-class processing, EV's signature single-knob user interface, and intuitive menu navigation for easy control.
- **High-Efficiency Power:** 1500 W Class D power amplifier delivers up to 132 dB peak SPL.
- **Intelligent Thermal Management:** Variable-speed fan controlled by multiple onboard sensors ensures reliable operation without overheating.
- **SST Waveguide Design:** EV-patented Signal Synchronized Transducers (SST) waveguide provides precise and consistent coverage.
- **Durable Enclosure:** Lightweight, compact 15-mm wood enclosure with internal bracing, durable EVCoat finish, and eight M10 threaded suspension points.

5. SETUP AND CONNECTIONS

Proper setup is crucial for optimal performance and safety. Follow these steps to connect your EKX12P loudspeaker.

5.1 Rear Panel Overview



Image 5.1: Detailed view of the EKX12P rear panel, highlighting the input/output connections and QuickSmartDSP interface.

- **Input 1 & 2:** Combo XLR/TRS inputs for connecting microphones or line-level sources.
- **Output:** XLR output for linking to other loudspeakers or audio devices.
- **DSP Control:** Single-knob interface with LCD screen for system configuration.
- **Power Inlet:** IEC power connector for the main power supply.
- **Power Switch:** On/Off switch for the loudspeaker.

5.2 Initial Connection

1. Ensure the power switch is in the OFF position.
2. Connect your audio source (mixer, microphone, etc.) to the Input 1 or Input 2 combo jacks using appropriate XLR or TRS cables.
3. If linking multiple loudspeakers, connect an XLR cable from the Output of the first EKX12P to an Input of the next loudspeaker.
4. Connect the supplied power cable to the power inlet on the rear panel and then to a grounded AC power outlet.
5. Turn on your audio source devices first, then turn on the EKX12P loudspeaker using the power switch.

5.3 Mounting Options

The EKX12P offers various mounting options for flexible deployment:

- **Pole Mount:** Use the integrated pole mount socket for stand-alone applications.
- **Floor Monitor:** The cabinet design allows for use as a floor monitor.
- **Suspension:** Utilize the eight M10 threaded suspension points for permanent installations with appropriate rigging hardware.



Image 5.2: Example of an optional mounting bracket and hardware for suspending the EKX12P loudspeaker.

6. OPERATING INSTRUCTIONS

The EKX12P features the QuickSmartDSP for intuitive control over various audio parameters.

6.1 QuickSmartDSP Interface

The single-knob interface and LCD screen allow you to navigate menus and adjust settings:

- **Rotate Knob:** Scroll through menu options or adjust parameter values.
- **Press Knob:** Select an option or confirm a setting.
- **BACK Button:** Return to the previous menu.

6.2 DSP Menu Options

Key DSP functions include:

- **MODE:** Select from various application presets (e.g., Music, Live, Speech, Club) to optimize the loudspeaker's frequency response.
- **LOCATION:** Adjust for placement (e.g., Pole, Monitor, Tripod, Wall) to compensate for acoustic coupling.
- **SUB:** Configure crossover settings when using a subwoofer.
- **EQ:** Fine-tune the sound with a 3-band equalizer.
- **DELAY:** Apply delay for time alignment in multi-speaker setups.
- **SAVE/RECALL:** Store and load custom user settings.
- **MIX:** Adjust input levels and output mix.

Refer to the on-screen menus for detailed parameter adjustments.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your EKX12P loudspeaker.

- **Cleaning:** Clean the cabinet with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Grille:** Periodically check the front grille for dust or debris and gently clean if necessary. Avoid applying excessive force to prevent dents.
- **Connections:** Ensure all cables are securely connected and free from damage.
- **Storage:** When not in use, store the loudspeaker in a dry environment, ideally covered with a protective cover to prevent dust accumulation and minor damage.



Image 7.1: The EKX12P loudspeaker shown with an optional protective cover, recommended for storage and transport.



Image 7.2: A protective cover for the EKX12P, featuring a convenient pocket for storing cables and accessories.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your EKX12P loudspeaker.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound output	Power not connected or switched on. Input signal cable disconnected or faulty. Input level too low. DSP settings incorrect (e.g., Mute enabled).	Check power cable and switch. Verify all audio cables are securely connected and functional. Increase input gain on the loudspeaker or source device. Check DSP menu for mute status and correct settings.
Distorted sound	Input signal too high (clipping). Loudspeaker volume too high. Faulty cable or source.	Reduce input level from the source or on the loudspeaker. Lower the master volume. Test with different cables and audio sources.
Loudspeaker cuts out intermittently	Overheating (thermal protection activated). Loose power or signal connections. Faulty internal component.	Ensure adequate ventilation. Reduce volume. Allow to cool. Check all power and signal connections. If problem persists, contact qualified service personnel.

9. TECHNICAL SPECIFICATIONS

Model Name	Electro-Voice EKX-12P
Speaker Type	12" 2-Way Full Range Powered Loudspeaker
Power Output	1500 Watts (Peak)
Max SPL	132 dB
Woofer Diameter	12 Inches
Material	Wood enclosure
Dimensions (D x W x H)	14.5"D x 14.5"W x 24.2"H
Item Weight	16 ounces <i>(Note: This weight is likely a packaging weight. The actual product weight is significantly higher. Please refer to official product documentation for accurate weight.)</i>
Connectivity Technology	Wireless (for control via Wi-Fi, not audio streaming)
Control Method	Touch (via DSP knob)
Power Source	Corded Electric
UPC	800549772167, 888365946160, 678358929771, 888365707525, 800549781374

For a complete list of specifications, please refer to the official Electro-Voice product page or technical data sheet.

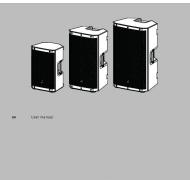
10. WARRANTY AND SUPPORT

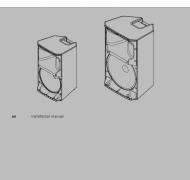
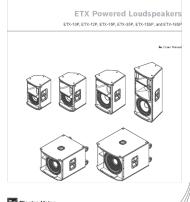
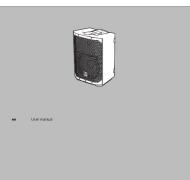
The Electro-Voice EKX12P loudspeaker comes with a limited warranty.

- **Warranty Type:** Limited Warranty (3 years).
- **For Warranty Claims:** Please retain your proof of purchase. Contact your authorized Electro-Voice dealer or visit the official Electro-Voice website for detailed warranty terms and conditions.
- **Customer Support:** For technical assistance, service, or additional information, please visit the [Electro-Voice Store on Amazon](#) or the official Electro-Voice website.

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Related Documents - EKX12P

	<p>Electro-Voice ZLX-G2 Full-Range Loudspeaker User Manual</p> <p>Comprehensive user manual for the Electro-Voice ZLX-G2 series of full-range loudspeakers, covering setup, operation, features, technical specifications, and troubleshooting for both powered and passive models.</p>
	<p>Electro-Voice ZLX Series Loudspeaker Owner's Manual</p> <p>Comprehensive owner's manual for the Electro-Voice ZLX Series loudspeakers, covering safety instructions, system features, setup, operation, specifications, and troubleshooting for powered and passive models.</p>
	<p>Electro-Voice ELX200-12P 12-Inch 2-Way Powered Speaker Datasheet</p> <p>Detailed datasheet for the Electro-Voice ELX200-12P, a 12-inch 2-way powered loudspeaker featuring QuickSmartDSP, 1200W Class-D amplification, 130 dB peak SPL, and versatile connectivity. Includes technical specifications, system overview, and ordering information.</p>

	<p>Electro-Voice ZLX Powered Loudspeaker Series Installation Manual</p> <p>Comprehensive installation manual for Electro-Voice ZLX Powered Loudspeaker Series, detailing setup, operation, DSP features, and technical specifications for models like ZLX-12BT and ZLX-15BT.</p>
	<p>Electro-Voice ETX Powered Loudspeakers</p> <p>Electro-Voice ETX (ETX-10P, ETX-12P, ETX-15P, ETX-35P, ETX-15SP, ETX-18SP)</p> <p>• , , , ,</p>
	<p>Electro-Voice EVERSE 8 User Manual</p> <p>Comprehensive user manual for the Electro-Voice EVERSE 8 portable, battery-powered loudspeaker system. Details features, operation, safety, technical specifications, and troubleshooting for this versatile PA system.</p>

Documents - Electro-Voice – EKX12P

[\[pdf\] Brochure](#)

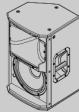


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Electro-Voice | EKX-12P

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QuickSmartDSP features best-in-class processing, EV's signature single-knob user interface, and intuitive menu navigation via LCD.

High-efficiency 1500 W Class-D power amplifier delivers up to 132 dB SPL via high-sensitivity transducers designed and engineered by E...

Integrated thermal management with a variable speed fan and a thermal sensor to reduce heat load.

Easy-to-read digital liquid-crystal display (LCD) menu/grade design provides precise and consistent control.

Lightweight, compact 30-mm woofers designed with internal bracing, durable G1 Coated finish, water (IP54) and dust (IP54) protection, and integrated pole mounts, and all metal handles.

Technical specifications

Frequency Range (1/3 Oct.)	40 Hz - 20 kHz
Required Power (W)	1500 W
Resonant Frequency (Hz)	312.8 Hz
Overall Dimensions (W x H x D)	917 x 407 x 305 mm
Overall Weight (kg)	39.7 kg
Mounting Depth (mm)	107 mm
RF Transducers	EV 12W 300 mm (12 in.)
Crossover Frequency	3.7 kHz
Connectors	1/4" Neutrik Speakon NL4MP (2)
Electro-Voice	Electro-Voice
Grille	18.000 mm² (0.000018 m²)
Separation	30.000 mm (0.0003 m)

Dimensions (W x H x D):
107 mm x 372 mm x 305 mm
34.29 in x 14.65 in x 11.97 in

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LOUDSPEAKERS Pult ru Whatever the application there s an EV speaker with a set of features to precisely QuickSmart DSP provides best in class processing via signature

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FOR OVER 90 YEARS, ELECTROVOICE HAS DESIGNED AND ENGINEERED LEADINGEDGE SOUND REINFORCEMENT SOLUTION ... ation via LCD. High-efficiency 1500 W Class-D power amplifier delivers up to 132 dB peak SPL on the **EKX12P and up to 134 dB peak SPL on the EKX-15P via high-sensitivity transducers designed and engine...**

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LOUDSPEAKERS The components inside every EV loudspeaker are manufactured and tested to the industry s highest standards ensure years of superior sound quality reliability PortableFamilyBrochure USletter LR Jun19 products electrovoice binary

FOR OVER 90 YEARS, ELECTROVOICE HAS DESIGNED AND ENGINEERED LEADINGEDGE SOUND REINFORCEMENT SOLUTION ... ation via LCD. High-efficiency 1500 W Class-D power amplifier delivers up to 132 dB peak SPL on the **EKX12P and up to 134 dB peak SPL on the EKX-15P via high-sensitivity transducers designed and engine...**

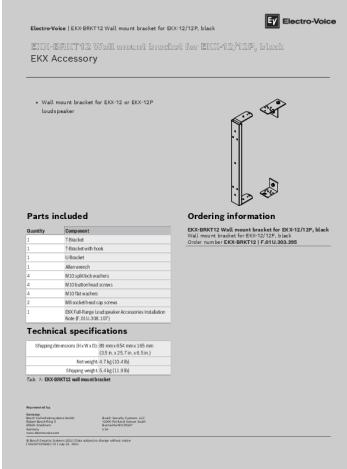
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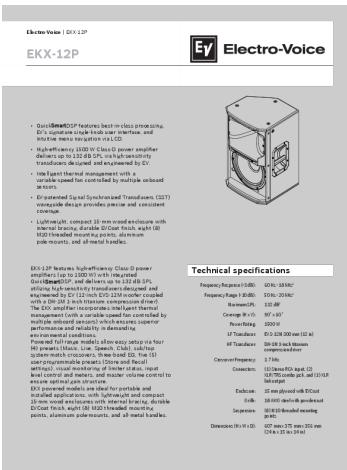
EKX BRKT12 Wall mount bracket for 12 12P black Datasheet 51 en 16780539147 Vbizz Electro Voice

Specification Sheet 2 EKX12P Powered Loudspeaker Superior Audio Performance PA SYSTEM

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Electro-Voice EKX-BRKT12 Wall mount bracket for EKX-12/12P, black EKX-BRKT12 Wall mount bracket for EKX-12/12P, black EKX Accessory Wall mount bracket for EKX-12 or EKX-12P loudspeaker Parts included Quantity 1 1 1 1 4 4 4 2 1 Component T-Bracket T-Bracket with hook U-Bracket Allen wrench M10 ...

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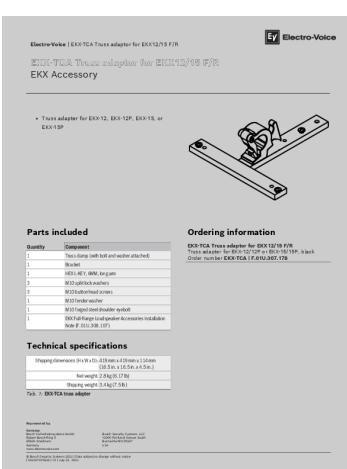
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EKX 12P DatasheetElectro Voice EKX12P EV Powered 12 2 Way Speaker EU CordEKKX

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Electro-Voice EKX-12P EKX-12P QuickSmartDSP features best-in-class processing, EV s signature single-knob user interface, and intuitive menu navigation via LCD. High-efficiency transducers designed and engineered by E...

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EKX TCA Truss adaptor for EKX12 15 F R Datasheet 51 en 17864984971 Vbizz Electro Voice 12P

Specification Sheet 1 EKX12P 12 Powered Loudspeaker Superior Audio Performance PA SYSTEM

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MALAYSIAVbizz 1api 1730963562api 15306 1730970050 1Product Data SheetElectro Adaptor

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Truss clamp with bolt and wash ||| Electro-Voice EKX-TCA Truss adaptor for EKX12/15 F/R EKX-TCA Truss adaptor for EKX12/15 F/R EKX Accessory Truss adapter for EKX12/15 F/R EKX Accessory Truss adapter for EKX-12, EKX-12P, EKX-15, or EKX-15P Parts included Quantity 1 1 1 3 3 1 1 1 Component Truss clamp with bolt and wash

Electro-Voice EKX-TCA Truss adaptor for EKX12/15 F/R EKX-TCA Truss adaptor for EKX12/15 F/R EKX Accessory Truss adapter for EKX-12, EKX-12P, EKX-15, or EKX-15P Parts included Quantity 1 1 1 3 3 1 1 1 Component Truss clamp with bolt and washer attached Bracket HEX L-KEY, 6MM, long arm M10 spl...

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EKX 12P Powered 12 2 Way Speaker Datasheet 51 en 16779726347 Vbizz Electro Voice Specification Sheet 3 EKX12P Loudspeaker for Superior Audio Performance PA SYSTEM MALAYSIA api vbizz storage 15280 v 1730963562 3Product Data SheetElectro MALAYSIAElectro CVR Padded Cover with EV Logo and 12PVbizz 3UV 01U303391 Product Sheetapi 1730963562cdn adiglobaldistribution us pim Original 10677 UV VoiceVbizz SheetHigh efficiency 1500 W Class D power amplifier delivers up to 132 dB SPL via high sensitivity transducers designed engineered by □ Intelligent thermal Electro 12P973544Vbizz Sheetproducts electrovoice 973544api SheetProduct 12PElectro F 01U 303 368 US Cord Black973544Vbizz SheetUV 01U303368 SPproducts Sheetcdn 10695 SP ||| ||| Electro-Voice EKX-12P Powered 12 2-Way Speaker EKX-12P Powered 12 2-Way Speaker QuickSmartDSP features best-in-class processing, EV s signature single-knob user interface, and intuitive menu navigation via LCD. High-efficiency 1500 W Class- ||| Electro-Voice EKX-12P Powered 12 2-Way Speaker EKX-12P Powered 12 2-Way Speaker QuickSmartDSP features best-in-class processing, EV s signature single-knob user interface, and intuitive menu navigation via LCD. High-efficiency 1500 W Class- ||| Electro-Voice EKX-12P Powered 12 2-Way Speaker EKX-12P Powered 12 2-Way Speaker QuickSmartDSP features best-in-class processing, EV s signature single-knob user interface, and intuitive menu navigation via LCD. High-efficiency 1500 W Class-

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