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Electro-Voice EKX Series / MG16XU Bundle

Electro-Voice EKX Series Portable Loudspeaker Bundle User Manual

Brand: Electro-Voice

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Electro-Voice EKX Series Portable Loudspeaker Bundle with Yamaha MG16XU Mixing Console and Accessories.

1. INTRODUCTION

This user manual is designed to guide you through the proper installation, operation, and care of your Electro-Voice EKX Series Portable Loudspeaker Bundle. This comprehensive sound system is ideal for various applications, including live performances, DJ sets, presentations, and events requiring high-quality audio reinforcement. Please read this manual thoroughly before operating the equipment to ensure safe and optimal performance.



Figure 1.1: Overview of the Electro-Voice EKX Series Portable Loudspeaker Bundle, including loudspeakers, subwoofers, mixing console, microphones, and cables.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent electric shock, fire, or injury:

- **Power Supply:** Connect the equipment only to a power supply of the type described in the specifications and marked on the unit.
- **Grounding:** Ensure all equipment is properly grounded to prevent electric shock.
- **Cables:** Use only high-quality, undamaged audio and power cables. Avoid placing cables in high-traffic areas where they could be tripped over or damaged.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around all components, especially amplifiers and the mixing console, to prevent overheating.
- **Moisture:** Do not expose equipment to rain or moisture. Do not place objects filled with liquids, such as vases, on the apparatus.
- **Servicing:** Do not attempt to service this equipment yourself. Refer all servicing to qualified service personnel.
- **Loud Volume:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use caution when operating the system at high volumes.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Electro-Voice EKX Series Portable Loudspeakers (Quantity: 2)
- Electro-Voice EKX Series Portable Subwoofers (Quantity: 2)
- Yamaha MG16XU Mixing Console (Quantity: 1)
- Microphones (Quantity: 3)
- Microphone Stands (Quantity: 3)
- Alto Professional Bluetooth Receiver (Quantity: 1)
- XLR Cables (Various lengths and quantities for speakers, subwoofers, and microphones)
- Power Cables for all active components
- User Manuals for individual components (if applicable)

4. SETUP

4.1 Component Overview



Figure 4.1.1: Front view of an Electro-Voice EKX Series Portable Loudspeaker, showcasing its robust grille and compact design.



Figure 4.1.2: Rear panel of an Electro-Voice EKX Series Portable Loudspeaker, featuring XLR inputs, output, and DSP controls.



Figure 4.1.3: Front view of an Electro-Voice EKV Series Portable Subwoofer, designed for powerful low-frequency reproduction.



Figure 4.1.4: Rear panel of an Electro-Voice EKV Series Portable Subwoofer, showing XLR inputs, outputs, and power connection.



Figure 4.1.5: Top view of the Yamaha MG16XU Mixing Console, displaying its 16 channels, faders, EQ knobs, and effects section.



Figure 4.1.6: Rear view of the Yamaha MG16XU Mixing Console, showing the power input, USB port, and other connectivity options.



Figure 4.1.7: The Alto Professional Bluetooth Receiver, a compact device for wireless audio streaming.



Figure 4.1.8: A typical dynamic microphone included in the bundle, suitable for vocals and instruments.

4.2 Initial Placement

Position the Electro-Voice EKX loudspeakers on their stands, ensuring they are stable and at an appropriate height for your audience. Place the EKX subwoofers on the floor, ideally centered or symmetrically placed relative to the main loudspeakers for optimal bass distribution. The Yamaha MG16XU mixing console should be placed on a stable surface within easy reach of the operator, away from excessive heat or moisture.

4.3 Power Connections

1. Ensure all equipment is switched OFF before making any power connections.
2. Connect the provided power cables to the power inlets of the EKX loudspeakers, EKX subwoofers, and the Yamaha MG16XU mixing console.
3. Plug the other end of the power cables into grounded electrical outlets.
4. Do not power on any equipment until all audio connections are complete.

4.4 Audio Connections

1. **Mixer to Subwoofers:** Connect the MAIN STEREO OUT (XLR) of the Yamaha MG16XU mixing console to the INPUT (XLR) of the EKX subwoofers using XLR cables. If using two subwoofers, connect the Left output to one subwoofer and the Right output to the other.
2. **Subwoofers to Loudspeakers:** Connect the THRU/OUTPUT (XLR) of the EKX subwoofers to the INPUT (XLR) of the EKX loudspeakers. This allows the subwoofers to pass the signal to the full-range loudspeakers.
3. **Microphones to Mixer:** Connect the microphones to the XLR INPUTS of the Yamaha MG16XU mixing console using XLR cables. Use channels 1-3 for the microphones.
4. **Bluetooth Receiver to Mixer:** Connect the Alto Professional Bluetooth Receiver to an available stereo input channel on the Yamaha MG16XU mixing console (e.g., channels 15/16 or a dedicated stereo input) using appropriate cables (e.g., XLR to 1/4" TRS or RCA to 1/4" TRS, depending on the receiver's output and mixer's

input).

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off Sequence

To prevent damage to your equipment and unpleasant pops/clicks, follow this power sequence:

1. Ensure all volume controls on the mixing console and loudspeakers are turned down to their minimum.
2. Power on the Yamaha MG16XU mixing console first.
3. After the mixer has fully initialized, power on the EKX subwoofers.
4. Finally, power on the EKX loudspeakers.
5. To power off, reverse the sequence: turn off loudspeakers, then subwoofers, then the mixing console.

5.2 Yamaha MG16XU Mixing Console Basics

- **Gain Control:** Adjust the GAIN knob for each input channel to achieve an optimal input level. The PEAK LED should flash only occasionally.
- **EQ Section:** Use the HIGH, MID, and LOW knobs to shape the tone of each input.
- **Aux Sends:** Use AUX 1 and AUX 2 to send signals to external effects processors or monitor mixes.
- **Channel Faders:** Adjust the volume of individual channels using the faders.
- **Master Fader:** Control the overall output volume of the mix using the STEREO master fader.
- **Effects:** The MG16XU features built-in SPX effects. Use the FX RTN fader to control the level of the effects return.

5.3 Electro-Voice EKX Series Loudspeaker Operation

- **Input Level:** Adjust the INPUT LEVEL knob on the rear panel of each EKX loudspeaker and subwoofer to match the output level from the mixing console. Start with the knob at the 12 o'clock position.
- **DSP Presets:** The EKX series features integrated DSP with various presets (e.g., Music, Live, Speech). Select the appropriate preset for your application using the rear panel controls.
- **Subwoofer Crossover:** Ensure the subwoofer's crossover frequency is set appropriately to blend seamlessly with the full-range loudspeakers. Refer to the individual EKX subwoofer manual for detailed DSP settings.

5.4 Microphone Usage

- **Placement:** Position microphones appropriately for the sound source. For vocals, maintain a consistent distance from the microphone.
- **Gain Staging:** Adjust the GAIN on the mixer channel for each microphone to prevent clipping (distortion) while ensuring a strong signal.
- **Feedback Prevention:** Avoid pointing microphones directly at loudspeakers. Use the mixer's EQ to reduce frequencies that cause feedback.

5.5 Bluetooth Connectivity (Alto Professional Receiver)

1. Power on the Alto Professional Bluetooth Receiver.
2. Activate Bluetooth on your audio device (smartphone, tablet, laptop).
3. Search for and select the Alto Professional receiver in your device's Bluetooth settings.

4. Once paired, audio from your device will stream wirelessly to the mixing console. Adjust the channel fader on the mixer for the Bluetooth input.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior surfaces of all components. For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the units. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the equipment in a cool, dry place, away from direct sunlight and extreme temperatures. Use protective covers or cases if transporting or storing for extended periods.
- **Cable Care:** Regularly inspect all cables for signs of wear, cuts, or damage. Replace damaged cables immediately. Coil cables neatly after use to prevent tangles and damage.
- **Ventilation:** Periodically check that ventilation grilles on loudspeakers, subwoofers, and the mixer are free from dust and debris. Use a soft brush or compressed air to clear blockages.

7. TROUBLESHOOTING

7.1 No Sound Output

- **Check Power:** Ensure all components (mixer, loudspeakers, subwoofers) are powered on and their power indicators are lit.
- **Check Connections:** Verify all audio cables are securely connected between the mixer, subwoofers, and loudspeakers.
- **Volume Levels:** Confirm that the master fader on the mixer is up, individual channel faders are up, and the input level knobs on the loudspeakers/subwoofers are not at minimum.
- **Input Source:** Ensure the correct input source is selected on the mixer and that the source device (e.g., Bluetooth device) is playing audio.

7.2 Distorted Sound

- **Gain Staging:** Reduce the GAIN knob on the mixer channel if the PEAK LED is constantly lit. Also, check the input level on the loudspeakers/subwoofers.
- **Master Volume:** Lower the master fader on the mixer if the overall output is too high.
- **Cable Integrity:** Inspect audio cables for damage or loose connections.

7.3 Feedback (High-pitched Squeal)

- **Microphone Placement:** Move microphones further away from loudspeakers. Avoid pointing microphones directly at speakers.
- **EQ Adjustment:** Use the EQ on the mixer to cut frequencies that are causing feedback. Common feedback frequencies are often in the mid-range.
- **Gain Reduction:** Lower the gain of the microphone channel or the master volume.

7.4 Bluetooth Connection Issues

- **Receiver Power:** Ensure the Alto Professional Bluetooth Receiver is powered on.
- **Pairing Mode:** Put the receiver into pairing mode if it's not automatically discoverable.
- **Device Bluetooth:** Confirm Bluetooth is enabled on your audio device and it's not connected to another device.

- **Distance:** Ensure the audio device is within the effective range of the Bluetooth receiver.

8. SPECIFICATIONS

Brand:

Electro-Voice

Model:

EKX Series Loudspeakers & Subwoofers, Yamaha MG16XU Mixing Console

Power Source:

Corded Electric

Output Wattage (Loudspeakers):

1500 Watts (Peak per loudspeaker)

Number of Channels (Mixer):

16

Audio Input:

XLR, 1/4 in

Connector Type:

RCA, XLR, 1/4" TRS

Color:

Black

Compatible Devices:

Audio Player, DJ Mixer, Guitar, Keyboard, Microphone, Smartphone

Mounting Type:

Floor Standing (for loudspeakers and subwoofers)

UPC:

797698476070

ASIN:

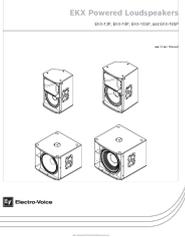
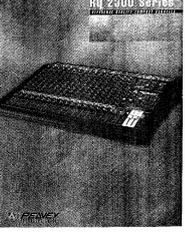
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9. WARRANTY AND SUPPORT

This product bundle is covered by the individual manufacturer's warranties for each component (Electro-Voice for loudspeakers/subwoofers, Yamaha for the mixing console, etc.). Please refer to the warranty documentation provided with each specific item for details on coverage, duration, and terms.

For technical support, troubleshooting assistance, or warranty claims, please contact the respective manufacturer's customer service department. Contact information can typically be found on their official websites or in the individual product manuals.

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	<p>Electro-Voice EKX Powered Loudspeakers User Manual</p> <p>User manual for Electro-Voice EKX series powered loudspeakers, including models EKX-12P, EKX-15P, EKX-15SP, and EKX-18SP. Covers safety, features, setup, operation, DSP controls, and technical specifications.</p>
	<p>Yamaha MG Series Mixing Consoles: User Manual</p> <p>Comprehensive user manual for Yamaha MG20XU, MG20, MG16XU, MG16, MG12XU, and MG12 mixing consoles. Covers safety, setup, features, operation, troubleshooting, and specifications.</p>
	<p>Yamaha CL/QL StageMix V8.1/8.5: Supplementary User Guide for iPad Remote Control</p> <p>This supplementary user guide for Yamaha's CL/QL StageMix iPad app (V8.1/8.5) details new features and functions for remote control of CL/QL series digital mixing consoles, focusing on monitor mix adjustments and other remote operations.</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>Hayner-Seek Podcast Equipment Bundle User Manual - P2 II</p> <p>Comprehensive user manual for the Hayner-Seek Podcast Equipment Bundle (Model P2 II). Learn how to connect, set up, and use the sound console for live streaming, recording, and podcasting on PC, Mac, smartphones, and tablets.</p>
	<p>Peavey RQ 2300 Series Compact Console Operating Guide</p> <p>Comprehensive operating guide for the Peavey RQ 2300 Series compact audio mixers, detailing features, specifications, connections, safety instructions, and warranty information.</p>