Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

LIAMOS ARMX-4

LIAMOS ARMX-4 4-Channel Audio Mixer User Manual

Model: ARMX-4

1. Introduction

The LIAMOS ARMX-4 is a compact 4-channel audio mixing console designed for various audio applications, including small stages, home studios, DJ parties, and gigs. It integrates a USB audio interface, 16 DSP effects, and a 3-band equalizer on each channel, providing precise control and adjustment for your audio needs.

This manual provides detailed instructions for the setup, operation, and maintenance of your ARMX-4 mixer. Please read it thoroughly before use to ensure proper functionality and to maximize your experience.

2. Safety Instructions

- **Power Supply:** Use only the provided power adapter. Ensure the voltage matches the requirements specified on the device.
- **Water and Moisture:** Do not expose the mixer to water, rain, or excessive moisture. Avoid placing liquid-filled objects on or near the unit.
- **Ventilation:** Ensure adequate ventilation around the mixer. Do not block ventilation openings.
- **Heat Sources:** Keep the mixer away from heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
- **Cleaning:** Disconnect the power before cleaning. Use a dry, soft cloth. Do not use liquid cleaners or aerosol cleaners.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Placement:** Place the mixer on a stable, level surface to prevent accidental falls.

3. Product Overview

The ARMX-4 mixer features a user-friendly layout with clearly labeled controls. Below is an overview of the mixer's components and dimensions.



Figure 3.1: LIAMOS ARMX-4 Mixer with included power adapter and overall dimensions. The mixer measures approximately 19.2 cm in width, 16.3 cm in depth, and 4.5 cm in height.

3.1 Control Panel Layout

The front panel provides access to all mixing controls, inputs, and outputs.



Figure 3.2: Detailed view of the ARMX-4 control panel, highlighting key features such as MIC/LINE inputs, FX SEND, PHONES output, USB/Bluetooth module, 3-Band EQ, DSP Effects section, Main Level Fader, and Phone Level Knob.

Key Controls and Features:

- **MIC/LINE Inputs (Channels 1-4):** XLR and 1/4" LINE jacks for microphones and line-level instruments. Channels 3/4 also feature stereo RCA inputs.
- **PAD Button:** Attenuates input signal by 26dB for high-level sources.
- **HPF (High-Pass Filter) Button:** Cuts low frequencies below 80Hz to reduce rumble.
- **GAIN Knob:** Adjusts the input sensitivity for each channel.
- **3-Band EQ (HIGH, MID, LOW):** Equalization controls for high, mid, and low frequencies on each channel.
- **FX Knob:** Sends a portion of the channel signal to the internal DSP effects processor.
- **LEVEL Knob:** Adjusts the output level of each channel.
- **+48V PHANTOM Power:** Supplies power to condenser microphones. Activated by a dedicated switch.
- **16 DSP Effects:** Built-in digital effects processor with various presets.
- **PROGRAM Knob:** Selects the desired DSP effect preset.

- **PARAMETER Knob:** Adjusts a specific parameter of the selected DSP effect.
- **MAIN METERS:** LED indicators showing the main output level.
- **MAIN LEVEL Fader:** Controls the overall output volume of the mixer.
- **PHONES Output:** 1/4" stereo jack for headphone monitoring.
- **PHONES Level Knob:** Adjusts the headphone output volume.
- **USB Audio Interface:** Allows connection to a computer for streaming and recording.
- **Bluetooth Function:** Enables wireless audio streaming from compatible devices.
- **FX SEND Output:** 1/4" jack for connecting external effects processors.
- **STEREO OUT (L/R):** XLR outputs for connecting to main speakers or amplifiers.

4. Setup

4.1 Unpacking and Placement

1. Carefully remove the ARMX-4 mixer and all accessories from its packaging.
2. Inspect the unit for any signs of damage. If damage is found, contact your dealer immediately.
3. Place the mixer on a stable, flat, and dry surface, ensuring adequate space for ventilation.

4.2 Power Connection

1. Ensure the mixer's power switch is in the OFF position.
2. Connect the provided power adapter to the DC IN jack on the rear of the mixer.
3. Plug the power adapter into a suitable electrical outlet.

4.3 Initial Connections

1. **Main Output:** Connect the STEREO OUT (L/R) XLR jacks to your main amplifier or powered speakers.
2. **Headphones:** Connect your headphones to the PHONES 1/4" stereo jack for monitoring.
3. **Input Devices:** Connect microphones, instruments, or other audio sources to the MIC/LINE inputs as needed.

5. Operating Instructions

5.1 Powering On/Off

- To power on, ensure all channel LEVEL knobs and the MAIN LEVEL fader are set to minimum. Then, press the power switch.
- To power off, lower all channel LEVEL knobs and the MAIN LEVEL fader, then press the power switch.

5.2 Connecting Input Devices

- **Microphones:** Connect dynamic microphones to the XLR inputs. For condenser microphones, ensure the +48V PHANTOM power is engaged (see section 5.6).
- **Line-Level Instruments:** Connect instruments like keyboards or guitars (with a DI box) to the 1/4" LINE inputs.
- **RCA Inputs:** Channels 3/4 also accept stereo RCA inputs for devices like CD players or media players.
- Adjust the **GAIN** knob for each channel to achieve an optimal input level, avoiding clipping (PEAK LED should only flash occasionally). Use the **PAD** button for very loud sources.
- Engage the **HPF** button for microphones to reduce unwanted low-frequency noise.

5.3 Using the 3-Band EQ

Each input channel features a 3-band equalizer to shape the tone of your audio source.

- **HIGH:** Adjusts the treble frequencies (e.g., for clarity in vocals or brightness in instruments).
- **MID:** Adjusts the mid-range frequencies (e.g., for presence in vocals or punch in instruments).
- **LOW:** Adjusts the bass frequencies (e.g., for warmth in vocals or depth in bass instruments).

Turn the knobs clockwise to boost frequencies and counter-clockwise to cut them. The center position is flat (no boost or cut).

5.4 Applying DSP Effects

The ARMX-4 includes 16 built-in DSP (Digital Signal Processing) effects to enhance your sound.



Figure 5.1: The DSP Effects section, showing the PROGRAM knob for effect selection and the PARAMETER knob for adjustment.

1. Use the **PROGRAM** knob to select one of the 16 available effects. The selected effect number will be displayed.
2. Adjust the **PARAMETER** knob to fine-tune the selected effect (e.g., decay time for reverb, delay time for echo).

3. Use the **FX** knob on each channel to send the desired amount of that channel's signal to the effects processor.
4. The overall level of the effects return is controlled by the dedicated **EFFECTS LEVEL** knob.

List of 16 DSP Effects:

1. Hall1
2. Hall2
3. Room1
4. Room2
5. Reverb+delay
6. Delay 125MS
7. Delay 175MS
8. Delay 225MS
9. Delay 285MS
10. Delay 560MS
11. Delay 860MS
12. Delay 1000MS
13. Delay 1400MS
14. PING-PONG Delay 800MS
15. PING-PONG Delay 1000MS
16. PING-PONG Delay 1400MS

5.5 USB Audio Interface & Bluetooth Function

The ARMX-4 offers versatile connectivity options for digital audio.



Figure 5.2: The USB and Bluetooth module, showing the display, control buttons, and USB port.

- **USB Audio Interface:** Connect the mixer to a computer using a USB cable. This allows you to stream audio from your computer to the mixer or record the mixer's output to your computer. The mixer will typically be recognized as a standard audio device.
- **USB/MP3 Reader:** Insert a USB flash drive containing MP3 files into the USB port. Use the built-in controls (play/pause/switch modes) to play music directly from the drive.
- **Bluetooth Streaming:** Activate the Bluetooth function on the mixer and your smartphone or other Bluetooth-enabled device. Pair the devices to wirelessly stream audio to the mixer.
- **Important Note:** The USB and Bluetooth functions cannot be used simultaneously. Select one mode at a time.

5.6 Using +48V Phantom Power

Phantom power is required for condenser microphones. Dynamic microphones do not require phantom power and are generally unaffected by it, but it's good practice to only activate it when needed.

- Ensure all channel LEVEL knobs are at minimum before engaging or disengaging phantom power to prevent loud pops.

- Connect your condenser microphone to an XLR input.
- Press the **+48V PHANTOM** power switch. An indicator light will illuminate.
- After use, disengage the +48V PHANTOM power switch.

5.7 Monitoring

Connect headphones to the PHONES jack to monitor the main mix. Adjust the headphone volume using the **PHONES Level** knob.

6. Maintenance

- **Cleaning:** Disconnect the power cord before cleaning. Use a soft, dry, lint-free cloth to wipe the surface of the mixer. Do not use abrasive cleaners, solvents, or waxes.
- **Storage:** When not in use for extended periods, store the mixer in a cool, dry place, away from direct sunlight and extreme temperatures. Cover the unit to protect it from dust.
- **Cable Management:** Avoid tightly bending or crimping audio and power cables to prevent damage.

7. Troubleshooting

Problem	Possible Cause	Solution
No sound output	Power not connected or turned on. Main Level fader or channel LEVEL knobs are down. Speakers/amplifier not connected or turned on. Incorrect input selection (e.g., USB/Bluetooth mode).	Check power connection and switch. Increase Main Level fader and channel LEVEL knobs. Verify speaker/amplifier connections and power. Ensure correct input source is selected.
Distorted sound	Input GAIN too high. Main output level too high. Connected device output level too high.	Reduce channel GAIN until PEAK LED no longer flashes constantly. Lower Main Level fader. Reduce output level of connected device.
Microphone not working (condenser mic)	+48V Phantom Power not engaged. Faulty cable or microphone.	Engage the +48V PHANTOM power switch. Test with a different XLR cable or microphone.
Bluetooth not connecting	Mixer not in Bluetooth mode. Device not in pairing mode or too far away. USB function is active.	Ensure the mixer's USB/Bluetooth module is set to Bluetooth mode. Place devices closer and ensure pairing mode is active. Disconnect any USB devices.

8. Specifications

- **Model:** ARMX-4
- **Channels:** 4

- **Inputs:** 2 x XLR/1/4" LINE combo jacks, 2 x 1/4" LINE jacks (stereo on Ch 3/4), Stereo RCA inputs (on Ch 3/4)
- **Outputs:** Stereo XLR Main Out (L/R), 1/4" FX Send, 1/4" Stereo Headphone Out
- **EQ:** 3-Band EQ (HIGH, MID, LOW) per channel
- **Effects:** 16 DSP Effects (Hall, Room, Reverb+Delay, various Delays, Ping-Pong Delays)
- **Phantom Power:** +48V (switchable)
- **Digital Connectivity:** USB Audio Interface, Bluetooth
- **USB Playback:** MP3 playback from USB flash drive
- **Item Weight:** 50 Grams (approximate)
- **Number of Pieces:** 1
- **Manufacturer:** LIAMOS

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your proof of purchase for any warranty claims.

For further assistance or inquiries, please visit the official LIAMOS website or contact their customer service department.

© 2024 LIAMOS. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0DH4PNKR5

More documents and user manuals: **https://manuals.plus/**