

ARVOMIC ARMX-4

ARVOMIC ARMX-4 4-Channel Audio Mixer User Manual

Model: ARMX-4

INTRODUCTION

Thank you for choosing the ARVOMIC ARMX-4 4-Channel Audio Mixer. This professional mixer is designed to provide high-quality audio processing for various applications, including live performances, home studios, DJ parties, and more. It features a low-noise preamp, 3-band EQ, 16 DSP effects, USB/Bluetooth connectivity, and robust construction. Please read this manual thoroughly to understand the mixer's functions and ensure safe and optimal operation.

IMPORTANT SAFETY INSTRUCTIONS

- **Power Source:** Only use the provided power adapter. Ensure the voltage matches the requirements specified on the device.
- **Water and Moisture:** Do not expose this appliance to rain or moisture. Do not use it near water or in damp environments.
- **Ventilation:** Ensure proper ventilation. Do not block any ventilation openings.
- **Heat:** Do not place near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Cleaning:** Clean only with a dry cloth.
- **Servicing:** 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.
- **Overload Protection:** The device includes chip protection against overvoltage, undervoltage, overheat, and DC short circuit to prevent damage.

PACKAGE CONTENTS

Please check the package to ensure all items are present:

- ARVOMIC ARMX-4 4-Channel Audio Mixer
- Power Adapter
- User Manual (this document)

PRODUCT OVERVIEW

The ARMX-4 is a compact yet powerful 4-channel audio mixer designed for versatility and ease of use. Below is an overview of its main components and features.



Figure 1: Top-down view of the ARVOMIC ARMX-4 4-Channel Audio Mixer. This image displays the layout of all input/output ports, control knobs, faders, and the digital display for DSP effects and USB/Bluetooth functions.

CURE-ALL : ARMX4 4-CHANNEL AUDIO MIXER

Input: Compatible with XLR / 1/4" LINE / RCA

- ✓ Warm, pure, dynamic audio mixing
- ✓ External audio processor available
- ✓ Sound monitoring available



Figure 2: Labeled diagram of the ARMX-4 mixer's controls. This image highlights key components such as MIC/LINE inputs, PAD and HPF buttons, GAIN controls, 3-Band EQ (HIGH, MID, LOW), FX SEND knobs, Channel LEVEL knobs, +48V Phantom Power switch, Main Fader, and Phone Level knob, providing a clear guide to each function.

Key Features:

- **4-Channel Input:** Two mono XLR/1/4" LINE inputs and one stereo 1/4" LINE input (channels 3/4).
- **High-Quality Preamps:** Low-noise professional and discrete mic preamps.
- **+48V Phantom Power:** For condenser microphones.
- **3-Band EQ:** Musical 3-band equalizer on each channel (HIGH, MID, LOW).
- **16 DSP Effects:** Built-in digital effects processor with 16 presets.
- **USB/Bluetooth Connectivity:** Stream music wirelessly or connect via USB for playback and recording.
- **FX Send Output:** Connect external effects processors.
- **Main Output:** Stereo L/R output for connecting to amplifiers or powered speakers.
- **Headphone Output:** For monitoring.
- **Robust Construction:** Sturdy metal chassis for durability.

Follow these steps to set up your ARMX-4 mixer:

1. **Power Connection:** Connect the provided power adapter to the DC IN port on the rear of the mixer and then to a suitable power outlet. Ensure the mixer's power switch is in the OFF position before connecting.
2. **Microphone/Instrument Connection (Channels 1-2):**
 - For microphones, connect an XLR cable to the MIC/LINE input.
 - For line-level instruments (e.g., keyboards, guitars with preamps), connect a 1/4" TS/TRS cable to the MIC/LINE input.
 - If using a condenser microphone, ensure the +48V PHANTOM power is switched ON (see Operating Instructions).
3. **Stereo Input Connection (Channels 3/4):** Connect stereo line-level devices (e.g., CD players, media players) using 1/4" TS/TRS cables to the L and R inputs of Channel 3/4.
4. **Main Output Connection:** Connect the L and R STEREO OUT ports to your amplifier, powered speakers, or recording interface using 1/4" TS/TRS cables.
5. **Headphone Connection:** Plug your headphones into the PHONES jack for monitoring.
6. **External FX Connection (Optional):** If using an external effects processor, connect the FX SEND output to the input of your external unit, and the output of your external unit back to an available LINE input on the mixer (e.g., Channel 3/4).
7. **USB Connection (Optional):** Connect a USB cable from the "USB TO PC" port to your computer for audio streaming and recording.
8. **Power On:** Once all connections are made, switch the mixer's power to the ON position.

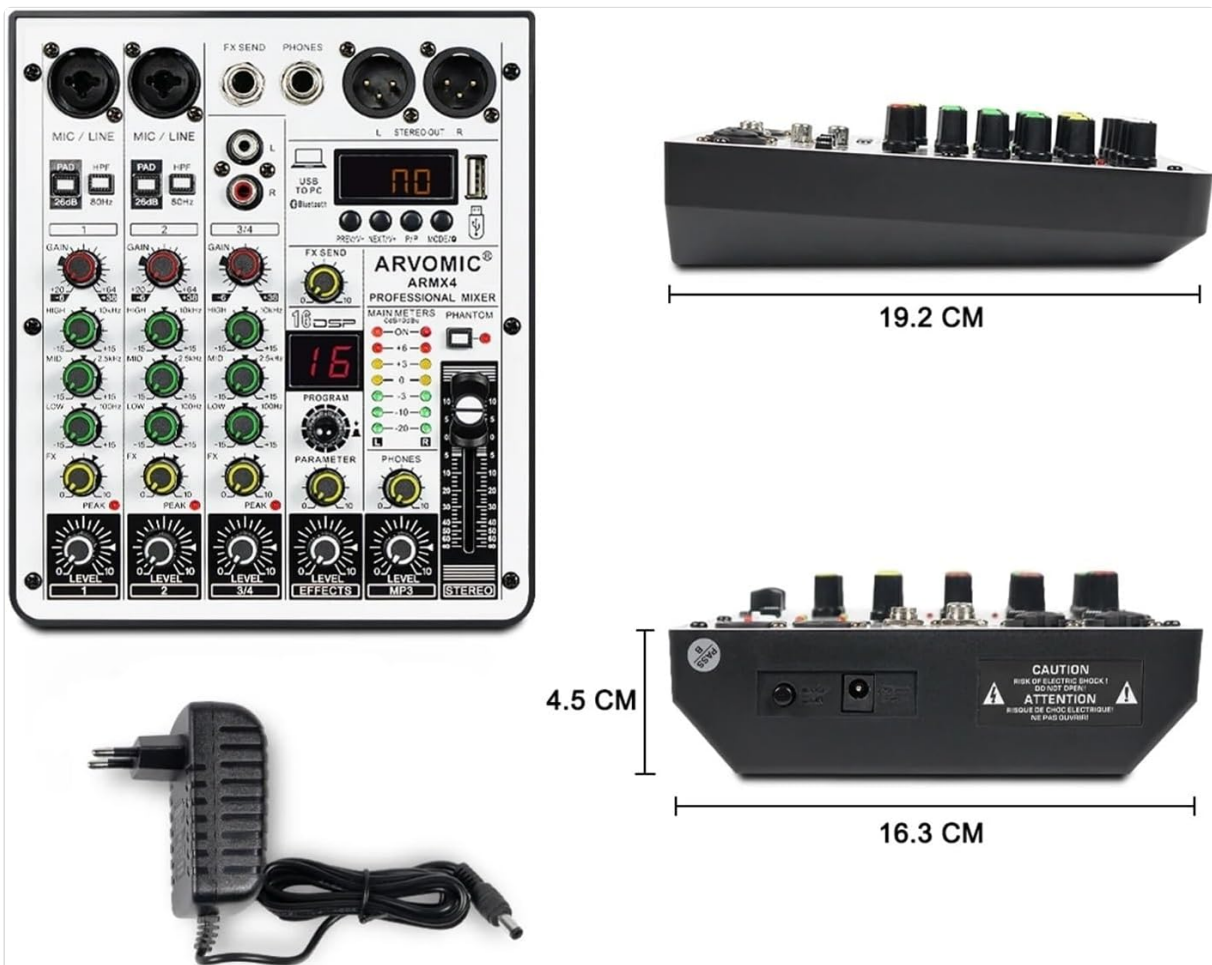


Figure 3: Side and rear views of the ARMX-4 mixer. This image illustrates the compact dimensions of the unit (approximately 19.2 cm wide,

OPERATING INSTRUCTIONS

1. Channel Controls (Channels 1-2)

- **PAD Button (-26dB):** Press to attenuate the input signal by 26dB for very loud sources.
- **HPF Button (80Hz):** Press to activate a High-Pass Filter at 80Hz, reducing low-frequency rumble.
- **GAIN Knob:** Adjusts the input sensitivity for the microphone or line input. Set this so the PEAK LED flashes only occasionally during the loudest parts of the signal.
- **3-Band EQ (HIGH, MID, LOW):**
 - **HIGH (10kHz):** Adjusts the treble frequencies.
 - **MID (2.5kHz):** Adjusts the mid-range frequencies.
 - **LOW (100Hz):** Adjusts the bass frequencies.

Turn clockwise to boost, counter-clockwise to cut. The center position is flat (no boost/cut).

- **FX Knob:** Controls the amount of signal sent from this channel to the internal DSP effects processor or external FX send.
- **LEVEL Knob:** Adjusts the overall volume of the channel in the main mix.
- **PEAK LED:** Illuminates when the input signal is too high, indicating potential clipping. Reduce the GAIN if this LED lights up frequently.

2. Channel Controls (Channels 3/4)

- **GAIN Knob:** Adjusts the input sensitivity for the stereo line input.
- **3-Band EQ (HIGH, MID, LOW):** Same functionality as Channels 1-2.
- **FX Knob:** Controls the amount of signal sent from this channel to the internal DSP effects processor or external FX send.
- **LEVEL Knob:** Adjusts the overall volume of the channel in the main mix.

3. +48V Phantom Power

The +48V PHANTOM switch (located near the main meters) activates phantom power for the XLR inputs on Channels 1 and 2. This is required for condenser microphones. Ensure dynamic microphones are not connected when phantom power is engaged, as it could potentially damage them. Always connect microphones before activating phantom power, and deactivate it before disconnecting.

4. 16 DSP Effects

The ARMX-4 features a built-in digital effects processor with 16 presets. Use the PROGRAM knob to select an effect and the PARAMETER knob to adjust its specific parameters (e.g., delay time, reverb decay).

- **PROGRAM Knob:** Rotate to cycle through the 16 available effects. The selected effect number will be displayed on the digital screen.
- **PARAMETER Knob:** Adjusts a specific parameter of the selected effect.
- **EFFECTS LEVEL Knob:** Controls the overall volume of the applied effects in the main mix.

PERSONALIZE SOUND WITH ARMX4 16 DSP EFFECTS

Twist and Press. Dynamic and Dynamite.



Figure 4: DSP Effects section of the ARMX-4 mixer. This image highlights the digital display showing the selected effect number (e.g., "16"), the PROGRAM knob for selecting effects, and the PARAMETER knob for fine-tuning effect settings. The text "16 DSP EFFECTS" emphasizes this feature.

5. USB & Bluetooth Functionality

The mixer supports USB and Bluetooth for audio playback and recording. **Note: The USB and Bluetooth functions cannot be used simultaneously.**

- **USB Playback/Recording:**

- Connect a USB flash drive to the USB port for MP3 playback. Use the control buttons (PREV/V-, NEXT/V+, P/P, MODE/O) to navigate tracks and control playback.
- Connect the "USB TO PC" port to your computer. The mixer will be recognized as an audio interface, allowing you to play audio from your computer through the mixer or record the main mix to your computer.

- **Bluetooth Streaming:**

- Press the MODE/O button until "BLUE" appears on the digital display.
- On your smartphone or Bluetooth-enabled device, search for "ARMX-4" (or similar) and pair.
- Once connected, you can stream audio wirelessly to the mixer. Use the control buttons on the mixer or your device to manage playback.

- **MP3 LEVEL Knob:** Adjusts the volume of the USB/Bluetooth audio in the main mix.

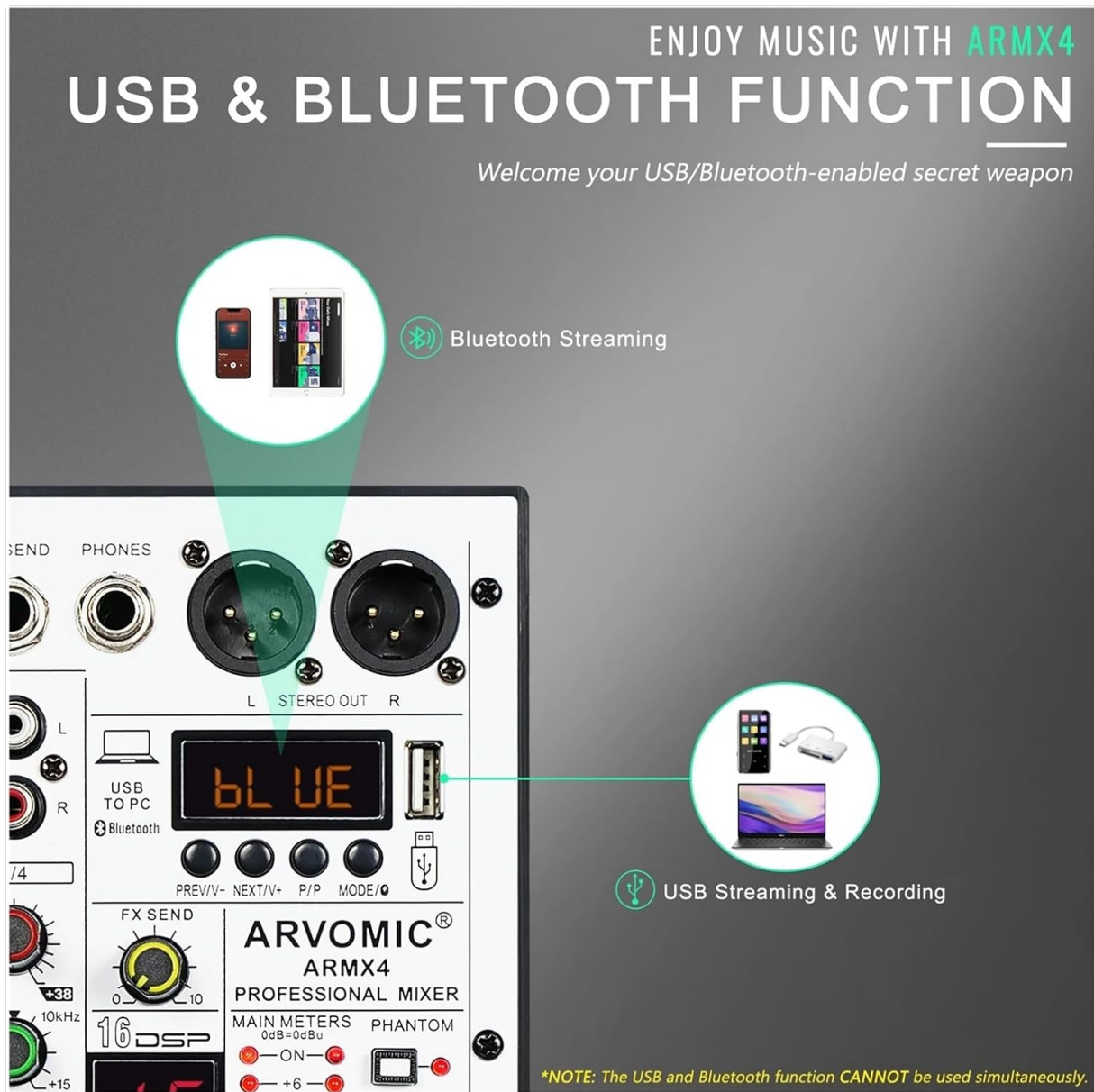


Figure 5: USB and Bluetooth functionality on the ARMX-4 mixer. This image details the digital display showing "BLUE" for Bluetooth mode, the USB port, and the control buttons (PREV/V-, NEXT/V+, P/P, MODE/O) for managing media playback and switching modes. It also visually indicates USB streaming/recording and Bluetooth streaming capabilities.

6. Main Output Controls

- **MAIN METERS:** LED indicators show the output level of the main mix. Aim for levels around 0dB to avoid clipping.
- **MAIN FADER:** Controls the overall volume of the main stereo output.
- **PHONES LEVEL Knob:** Adjusts the volume of the headphone output.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound output.	<ul style="list-style-type: none"> • Power not connected or switched off. • Main Fader or channel LEVEL knobs are down. • Output cables not connected or faulty. • Amplifier/speakers are off or muted. 	<ul style="list-style-type: none"> • Check power connection and switch. • Raise Main Fader and relevant channel LEVEL knobs. • Verify output cable connections. • Ensure amplifier/speakers are on and unmuted.
No sound from a specific channel.	<ul style="list-style-type: none"> • Channel LEVEL knob is down. • GAIN knob is too low. • Input cable faulty or not connected. • Microphone/instrument is off or faulty. • +48V Phantom Power not engaged for condenser mics. 	<ul style="list-style-type: none"> • Raise the channel LEVEL knob. • Increase the GAIN knob. • Check input cable and device. • Ensure mic/instrument is on and working. • Activate +48V Phantom Power if needed.
Distorted sound.	<ul style="list-style-type: none"> • GAIN or LEVEL knobs set too high (PEAK LED flashing constantly). • Input signal is too hot. • Output level too high for connected amplifier/speakers. 	<ul style="list-style-type: none"> • Reduce GAIN and/or LEVEL knobs. • Engage PAD button if available for the channel. • Lower Main Fader or input sensitivity on connected amplifier.
Bluetooth not connecting.	<ul style="list-style-type: none"> • Mixer not in Bluetooth mode. • Device too far away. • Already connected to another device. 	<ul style="list-style-type: none"> • Press MODE/O until "BLUE" is displayed. • Move device closer to the mixer. • Disconnect from other devices and try again.

SPECIFICATIONS

Feature	Detail
Model	ARMX-4
Number of Channels	4
Audio Inputs	2 x XLR/1/4" Combo (Mono), 1 x 1/4" TRS (Stereo)
Audio Output	1 x 1/4" TRS (Stereo Main Out), 1 x 1/4" TRS (Headphone Out)
Phantom Power	+48V (switchable)

Feature	Detail
EQ	3-Band (High, Mid, Low) per channel
DSP Effects	16 built-in presets
Connectivity	USB (for PC/Flash Drive), Bluetooth
Power Source	Corded Electric
Item Weight	50 Grams (approx. 1.76 ounces)
Dimensions (Approx.)	19.2 cm (W) x 16.3 cm (D) x 4.5 cm (H)

MAINTENANCE

- **Cleaning:** Disconnect the mixer from power before cleaning. Use a soft, dry cloth to wipe the surface. Do not use liquid cleaners, abrasive cleaners, 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.
- **Handling:** Avoid dropping or subjecting the mixer to strong impacts, as this can damage internal components.

WARRANTY AND SUPPORT

This product is covered by a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support, troubleshooting assistance, or service inquiries, please contact the manufacturer or your authorized dealer.