

## XTUGA MRV122FX

# XTUGA MRV122FX 12-Channel Audio Mixer User Manual

## 1. INTRODUCTION

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Thank you for choosing the XTUGA MRV122FX 12-Channel Audio Mixer. This professional mixing console is designed for high-quality audio performance in various settings, including live gigs, studio recording, and DJ events. It features an ultra-low noise design, advanced microphone preamplifiers, a built-in digital effects processor, Bluetooth connectivity, and USB playback/recording capabilities. This manual provides detailed instructions to help you set up, operate, and maintain your mixer for optimal performance.



Image 1.1: Front view of the XTUGA MRV122FX 12-Channel Audio Mixer, showcasing all controls and input/output sections.

## 2. KEY FEATURES

- **Ultra-Low Noise Design:** Engineered for the highest possible headroom and minimal noise interference.
- **Studio-Grade XDR2 Mic Preamps:** Equipped with 6-16 Extended Dynamic Range mic preamplifiers, offering a 60dB gain range, 130dB dynamic range, and +22dBu line input handling.
- **Phantom Power:** +48V phantom power available for condenser microphones.
- **Channel EQ:** 4-band active EQ on mono channels (High, Mid-high, Mid-low, Low) and 2-band EQ on stereo channels. Includes an 18dB/octave, 75Hz Lo-Cut filter on mic channels.
- **Built-in Digital Effects Processor:** Features 16 high-quality 24-bit DSP effects with Tap Tempo functionality.
- **Multi-format Play Support:** Integrated Bluetooth for wireless audio streaming from mobile devices, and a digital display MP3 player with U-DISK input and recording (REC) function.
- **Two-Way USB Function:** Allows music playback via USB and connection to a computer for recording.

- **Rugged Construction:** Ultra-fashion all-metal chassis design for durability and high-density dust resistance.
- **Universal Power Supply:** Multi-voltage power supply (100-240V) for worldwide use.
- **Dual 7-Band Stereo Graphic Equalizer:** For precise overall mix adjustment.

## 3. SETUP

### 3.1 Unpacking and Placement

Carefully remove the mixer from its packaging. Inspect the unit for any signs of damage. Place the mixer on a stable, flat surface, ensuring adequate ventilation around the unit.

### 3.2 Power Connection

Connect the provided power cable to the mixer's power input and then to a suitable AC power outlet (100-240V). Ensure the power switch is in the OFF position before connecting. The mixer is designed with a multi-voltage power supply for global compatibility.



Image 3.1: Rear panel of the mixer showing the 100-240V power input and fuse holder.

### 3.3 Connecting Inputs

The MRV122FX features 12 input channels, including 10 mono microphone/line inputs and 2 stereo line inputs (channels 9/10 and 11/12). Channels 1-8 are mono inputs with XLR and 1/4" TRS/TS jacks.



# 12 INPUT PORTS (12 MONO INPUT+1 STEREO INPUT)

- ▶ **48V PHANTOM POWER SUPPLY CONDENSER MICROPHONE.**
- MONO 4-BAND EQ DESIGN.**  
(HIGH,MID-HIGH,MID-LOW,LOW)
- 2-BAND STEREO CHANNELS EQ.**



Image 3.2: Close-up of the mixer's input section, highlighting the 12 input ports (10 mono, 2 stereo).

- **Microphones:** Connect dynamic or condenser microphones to the XLR inputs (channels 1-8). For condenser microphones, activate the +48V phantom power switch located near the master section.
- **Line-Level Devices:** Connect instruments (keyboards, guitars with preamps), media players, or other line-level devices to the 1/4" TRS/TS LINE IN jacks on mono channels or the stereo LINE IN jacks on channels 9/10 and 11/12.
- **Insert Points:** Channels 1-8 include 1/4" TRS insert jacks for connecting external signal processors (e.g., compressors, gates) to individual channels.

## 3.4 Connecting Outputs

- **Main Outputs:** Connect your main PA system or recording interface to the MAIN L/R XLR or 1/4" TRS outputs.
- **AUX Send:** Use the AUX SEND 1/4" output to connect to stage monitors or external effects processors.
- **Headphones:** Connect headphones to the PHONES 1/4" stereo jack for monitoring.
- **USB Output:** Connect the USB port to a computer for digital audio recording.

## 4. OPERATING THE MIXER



## 4.1 Channel Controls (Mono Channels 1-8)



Image 4.1: Detailed view of a single channel strip, showing Gain, EQ, Aux, FX, Pan, Mute, and Fader controls.

- **GAIN:** Adjusts the input sensitivity for the microphone or line input. Set this to achieve a strong signal without clipping (the OL LED should flash only occasionally).
- **EQ (High, Mid-high, Mid-low, Low):** These four knobs allow you to shape the tone of the input signal. Adjust to enhance or cut specific frequencies.
- **LO-CUT:** Activates an 18dB/octave, 75Hz high-pass filter to remove unwanted low-frequency rumble.
- **AUX:** Controls the amount of channel signal sent to the AUX SEND output.
- **FX:** Controls the amount of channel signal sent to the internal effects processor.
- **PAN:** Positions the channel signal within the stereo field (left to right).
- **MUTE:** Silences the channel.
- **SOLO:** Routes the channel signal to the headphones for isolated monitoring without affecting the main mix.
- **Channel Fader:** Adjusts the overall volume level of the channel in the main mix.

## 4.2 Stereo Channels (9/10 and 11/12)

These channels are designed for stereo line-level inputs. They typically feature 2-band EQ, AUX, FX, BALANCE (instead of PAN), MUTE, SOLO, and a channel fader.

## 4.3 Master Section Controls

- **MAIN L/R Faders:** Control the overall output volume of the main stereo mix.
- **AUX RETURN:** Adjusts the level of the signal returning from an external effects processor connected to the AUX RETURN inputs.
- **PHONES Level:** Controls the volume of the headphone output.
- **7-Band Stereo Graphic Equalizer:** This equalizer allows for fine-tuning the overall frequency response of the main mix. Adjust the sliders to boost or cut specific frequency bands.

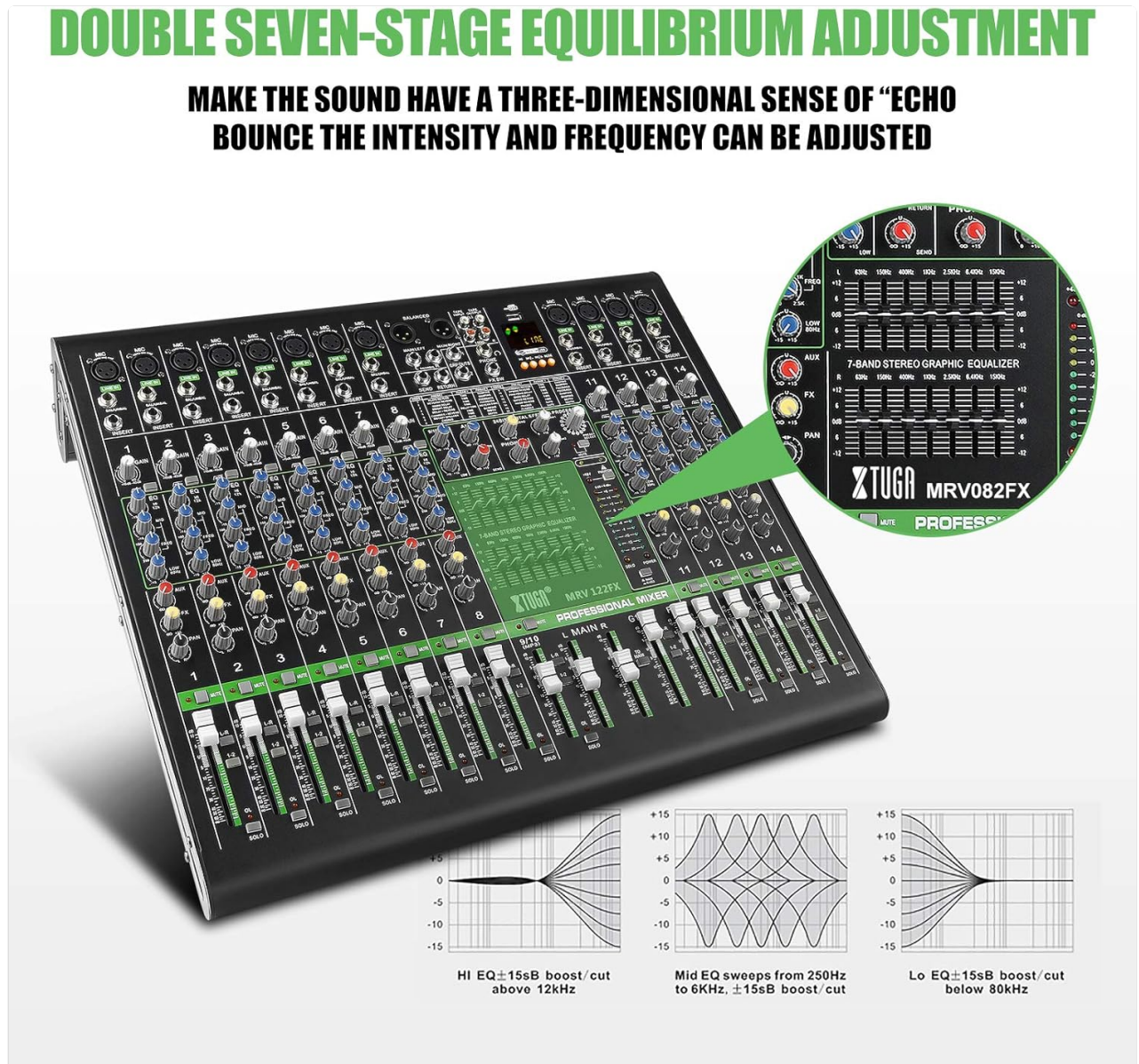


Image 4.2: Close-up of the 7-band stereo graphic equalizer, showing frequency bands and boost/cut controls.

## 4.4 Digital Effects Processor (DSP)



# AUDIO EFFECTS PROCESSOR

**BUILT-IN 16 PROFESSIONAL REVERB EFFECTS  
AMAZING MUSIC**

**16 MODES**



*Image 4.3: Section of the mixer highlighting the 24-bit digital effects processor with 16 modes.*

- **PROGRAM Knob:** Rotate to select one of the 16 built-in DSP effects (e.g., Reverb, Delay, Chorus).
- **PARAMETER Knob:** Adjusts a specific parameter of the selected effect (e.g., decay time for reverb, delay time for delay).
- **FX Level:** Controls the overall volume of the effects return into the main mix.
- **TAP TEMPO:** For time-based effects like delay, press this button repeatedly to set the tempo.

## 4.5 Bluetooth, MP3/USB Playback and Recording



▶ **BUILT-IN 16 KINDS OF DSP EFFECTS WITH HIGH QUALITY**

**CD / MOBILE PHONE MULTI INPUT SOURCE MATRIX**



Image 4.4: Close-up of the digital display and multimedia control section, including USB and Bluetooth functionality.

- **Bluetooth:** Activate Bluetooth on your mobile device and search for the mixer. Pair with the device to stream audio wirelessly. Use the dedicated controls on the mixer to manage playback.
- **MP3 (U-DISK) Playback:** Insert a USB flash drive (U-DISK) containing MP3 files into the USB port. Use the digital display and control buttons to navigate and play tracks.
- **REC Function:** The mixer supports recording directly to a USB flash drive. Refer to the digital display interface for recording options.
- **USB Computer Connection:** Connect the mixer to a computer via USB to use it as an audio interface for recording or playback.

## 5. MAINTENANCE

To ensure the longevity and optimal performance of your XTUGA MRV122FX mixer, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the mixer. Avoid using abrasive cleaners, solvents, or waxes, as these can damage the finish and controls.
- **Dust Protection:** Keep the mixer covered when not in use to prevent dust and debris from accumulating on the



controls and inside the chassis.

- **Environmental Conditions:** Operate and store the mixer in a cool, dry environment, away from direct sunlight, extreme temperatures, and high humidity.
- **Power Safety:** Always disconnect the power cable before cleaning or if the unit will be unused for an extended period.

## 6. TROUBLESHOOTING

If you encounter issues with your XTUGA MRV122FX mixer, refer to the following common problems and solutions:

- **No Sound Output:**
  - Check all power connections and ensure the mixer is turned on.
  - Verify that main faders and channel faders are raised.
  - Ensure no MUTE buttons are active on channels or master.
  - Check connections to your amplifier or powered speakers.
  - Confirm input sources are active and sending a signal.
- **Distortion or Unclear Sound:**
  - Reduce the GAIN on input channels if the OL (Overload) LED is constantly lit.
  - Lower the main output faders if the main meters are consistently in the red.
  - Check all cables for damage or improper connection.
- **Phantom Power Not Working:**
  - Ensure the +48V phantom power switch is engaged.
  - Verify that condenser microphones are connected via XLR cables.
- **Bluetooth Connectivity Issues:**
  - Ensure Bluetooth is enabled on both the mixer and your device.
  - Check that the mixer is in pairing mode.
  - Move your device closer to the mixer to reduce interference.
- **Digital Display Language (e.g., Chinese):**
  - Some units may default to a specific language. Check the digital display's menu options for a language setting. If no option is available, contact customer support for assistance.

## 7. SPECIFICATIONS

Feature	Specification
Model Number	MRV122FX
Number of Channels	12
Item Weight	8.89 kg
Product Dimensions	60 x 56 x 24 cm
Connectivity Technology	XLR, USB, Bluetooth

Feature	Specification
Power Source	Corded Electric (100-240V)
Mic Input (Max)	30dBu
Line Input (Max)	21dBu
Mixer Rated Output (Main)	+4dBu
Frequency Response (Mic Input to Main Output)	+0-1 dB, <10Hz to 80KHz; +0-3 dB, <10Hz to 120KHz
EQ (each band)	±15dB
Digital Effects Processor	24-bit, 16 FX settings

## 8. WARRANTY AND SUPPORT

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