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XTUGA RX120

XTUGA RX120 12-Channel Professional Audio Mixer User Manual

Comprehensive instructions for setup, operation, and maintenance.

1. INTRODUCTION

This manual provides detailed instructions for the XTUGA RX120 12-Channel Professional Audio Mixer. Please read this manual thoroughly before operating the device to ensure proper usage, optimal performance, and to prevent damage. Keep this manual for future reference.

2. IMPORTANT SAFETY INSTRUCTIONS

- **Power Source:** Connect the mixer only to the specified power supply voltage. Ensure the power cord is not damaged or pinched.
- **Water and Moisture:** Do not expose the unit to rain or moisture. Do not place objects filled with liquids, such as vases, on the unit.
- **Ventilation:** Ensure adequate ventilation. Do not block ventilation openings.
- **Heat:** Do not place the unit 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:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Grounding:** Do not defeat the safety purpose of the polarized or grounding-type plug.

3. PRODUCT OVERVIEW AND CONTROLS

The XTUGA RX120 is a 12-channel audio mixer designed for professional sound applications. It features a built-in 24-bit DSP digital effect processor, USB connectivity for MP3 playback and recording, and Bluetooth for wireless audio streaming.

3.1 Front Panel Layout

Below is an illustration of the mixer's front panel, highlighting key controls and connections.



Figure 3.1: Front view of the XTUGA RX120 12-Channel Audio Mixer, showing all input channels, main controls, and the digital display.

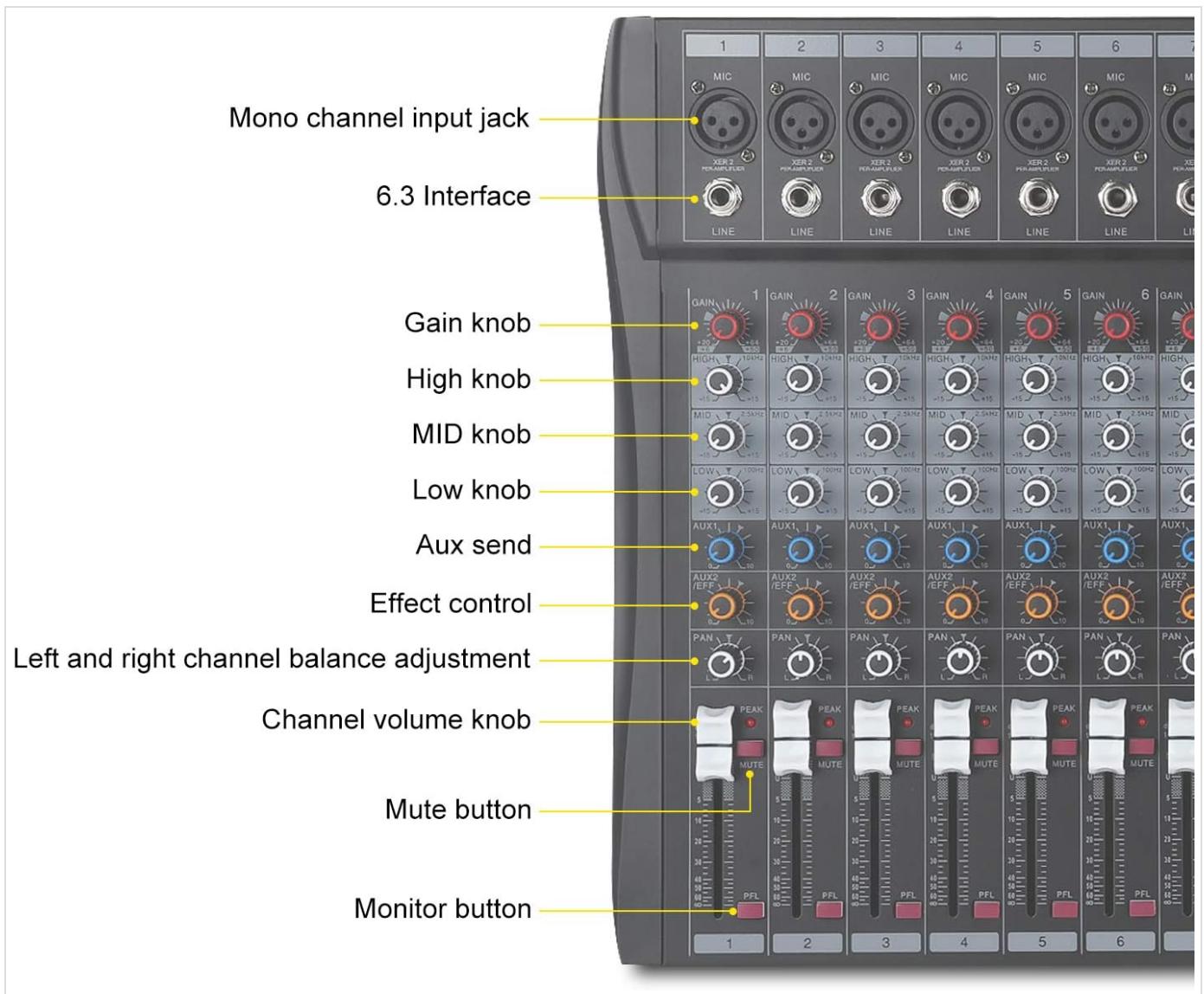


Figure 3.2: Detailed view of the XTUGA RX120 mixer's channel controls, including Mono channel input jack, 6.3 Interface, Gain knob, High knob, MID knob, Low knob, Aux send, Effect control, Left and right channel balance adjustment, Channel volume knob, Mute button, and Monitor button.

3.2 Key Features

- 12-channel input (XLR and 6.3mm Line inputs).
- Built-in 24-bit DSP digital effects processor with 24 presets.
- USB interface for MP3 playback and direct recording.
- Bluetooth connectivity for wireless audio streaming.
- 3-band EQ on each mono channel (High, Mid, Low).
- Phantom power (+48V) for condenser microphones.
- Peak indicators and PFL (Pre-Fader Listen) function on each channel.
- Main stereo output, AUX outputs, and headphone output.

4. SETUP GUIDE

4.1 Power Connection

1. Ensure the mixer's power switch is in the OFF position.
2. Connect the provided power adapter to the mixer's power input.

3. Plug the power adapter into a suitable AC power outlet.

4.2 Connecting Audio Sources

The RX120 offers various input options for microphones, instruments, and other audio devices.

- **Microphones:** Connect dynamic or condenser microphones to the XLR inputs (MIC) on channels 1-12. For condenser microphones, activate the +48V Phantom Power switch located near the main output section.
- **Line-Level Devices:** Connect instruments (keyboards, guitars with preamps), CD players, or other line-level devices to the 6.3mm (1/4") LINE inputs on channels 1-12.
- **Stereo Inputs:** Use the TAPE IN (RCA) or AUX IN (6.3mm) for additional stereo sources.

4.3 Connecting Outputs

- **Main Output:** Connect the MAIN OUT (XLR or 6.3mm) to your power amplifier, powered speakers, or recording interface.
- **AUX Outputs:** Use AUX 1 and AUX 2 outputs for monitor mixes or external effects processors.
- **Headphones:** Connect headphones to the PHONES output for monitoring.

5. OPERATING INSTRUCTIONS

5.1 Basic Channel Operation

1. **Gain Control:** Adjust the **GAIN** knob at the top of each channel to set the input level. Aim for the PEAK LED to flash only occasionally, indicating a strong signal without clipping.
2. **Equalization (EQ):** Use the **HIGH**, **MID**, and **LOW** knobs to adjust the tonal characteristics of each channel.
3. **AUX Sends:** The **AUX1** and **AUX2/EFF** knobs control the amount of signal sent to the respective auxiliary outputs or the internal effects processor.
4. **Pan Control:** The **PAN** knob adjusts the stereo position of the channel's signal in the main mix (left to right).
5. **Mute Button:** Press the **MUTE** button to silence the channel.
6. **PFL (Pre-Fader Listen) Button:** Press the **PFL** button to monitor the channel's signal before the fader, allowing you to set gain levels accurately via headphones.
7. **Channel Fader:** Use the channel fader to control the volume of the channel in the main mix.

5.2 Main Mix Control

- **Main Faders:** The LEFT MAIN and RIGHT MAIN faders control the overall output volume of the stereo mix.
- **Level Meters:** Monitor the main output level using the LED meters. Aim for levels that are strong but do not consistently peak into the red.
- **Phones Level:** Adjust the PHONES VOL knob to control the headphone output level.

6. DSP DIGITAL EFFECTS PROCESSOR

The RX120 features a built-in 24-bit DSP effects processor with 24 selectable presets, including various reverbs, delays, chorus, and more.

MULTIPLE SOUND MODE SELECTION

24 DSP



Multiple sound field effects can be applied to different scene applications of users

Figure 6.1: Digital display and list of 24 DSP effects available on the XTUGA RX120 mixer.

1. **Selecting Effects:** Turn the **PROGRAM (PUSH)** knob to scroll through the 24 available effects displayed on the digital screen.
2. **Confirming Selection:** Press the **PROGRAM (PUSH)** knob to confirm your effect selection.
3. **Applying Effects:** Use the **AUX2/EFF** knob on each channel to send the desired amount of that channel's signal to the selected effect. The **FX** fader controls the overall return level of the effects into the main mix.

7. BLUETOOTH CONNECTIVITY

The RX120 allows wireless audio streaming from Bluetooth-enabled devices.

- 1. Activate Bluetooth:** Press the MODE button on the MP3/USB section until "BT" appears on the digital display.
- 2. Pairing:** On your Bluetooth device (smartphone, tablet, etc.), search for available devices and select "XTUGA RX120" (or similar name).
- 3. Playback:** Once paired, play audio from your device. Control the volume using the MP3 channel fader on the mixer.

8. USB PLAYBACK AND RECORDING

The mixer supports MP3 playback from a USB drive and direct recording of the main mix to a USB drive.

8.1 MP3 Playback

1. Insert a USB flash drive containing MP3 files into the USB port.
2. The mixer should automatically detect the USB drive and begin playback. If not, press the MODE button to select USB mode.
3. Use the playback controls (Play/Pause, Previous, Next) on the MP3/USB section to navigate tracks.
4. Adjust the volume using the MP3 channel fader.

8.2 Recording to USB

1. Ensure a formatted USB flash drive is inserted into the USB port.
2. Set up your desired mix and levels.
3. Press the REC button on the MP3/USB section to start recording the main stereo mix to the USB drive. The display will indicate recording status.
4. Press the REC button again to stop recording.

9. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the mixer's surface. Avoid abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, store the mixer in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Ventilation:** Regularly check that ventilation openings are clear of dust and debris.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output.	<ul style="list-style-type: none">◦ Power not connected.◦ Main faders down.◦ Channel faders down or MUTE engaged.◦ Incorrect input/output connections.◦ Amplifier/powered speakers off or volume down.	<ul style="list-style-type: none">◦ Check power connection and switch.◦ Raise MAIN faders.◦ Raise channel faders and disengage MUTE.◦ Verify all audio cables are correctly connected.◦ Turn on/up external audio equipment.
Distorted sound.	<ul style="list-style-type: none">◦ Input GAIN too high.◦ Main output level too high.◦ Damaged cables.	<ul style="list-style-type: none">◦ Reduce GAIN on input channels.◦ Lower MAIN faders.◦ Replace suspect cables.
Bluetooth not connecting.	<ul style="list-style-type: none">◦ Mixer not in Bluetooth mode.◦ Device too far or already paired elsewhere.	<ul style="list-style-type: none">◦ Press MODE button to select "BT".◦ Ensure device is close and not connected to another device. Try re-pairing.
USB recording not working.	<ul style="list-style-type: none">◦ USB drive not inserted or formatted incorrectly.◦ USB drive full.	<ul style="list-style-type: none">◦ Ensure USB drive is properly inserted and formatted (FAT32 recommended).◦ Delete files or use a different USB drive.

11. SPECIFICATIONS

Feature	Detail
Brand	XTUGA
Model	RX120
Number of Channels	12
Connectivity Technology	XLR, 6.3mm Interface, USB, Bluetooth
DSP Effects	24-bit Digital Effect Processor with 24 presets
Phantom Power	+48V
Power Source	Corded Electric
Item Weight	4.7 Kilograms (10.34 pounds)
Product Dimensions	523mm x 430mm x 103mm (20.59 x 16.93 x 4.06 inches)

12. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official XTUGA website. Keep your proof of purchase for any warranty claims.

Official XTUGA Website: [XTUGA Store on Amazon](#) (Note: This link directs to the brand's store page on Amazon, which may contain support information or links to the official website.)