

XTUGA ES602-Red

XTUGA ES602 Professional Audio Mixer User Manual

Model: ES602-Red

1. INTRODUCTION

Thank you for choosing the XTUGA ES602 Professional Audio Mixer. This 7-channel console is designed for stage, studio, and home audio applications, featuring USB/MP3 playback, Bluetooth connectivity, and built-in digital effects. This manual provides essential information for safe operation, setup, and optimal performance of your mixer. Please read it thoroughly before use.

2. IMPORTANT SAFETY INSTRUCTIONS

To reduce the risk of electric shock, fire, or damage to the unit, please observe the following safety precautions:

- Read these instructions carefully and keep them for future reference.
- Do not use this apparatus near water or in excessively humid environments.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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.
- The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

3. PRODUCT OVERVIEW

The XTUGA ES602 mixer features a compact design with comprehensive controls for various audio mixing needs. Familiarize yourself with the layout and functions of each component.

3.1 Component Identification



Figure 3.1: Labeled diagram of the XTUGA ES602 mixer's main control areas. This image highlights the Canon and Jack input partition, Audio input partition, USB interface, Volume adjustment partition, Mixer Effect partition, and the Left and Right channel faders, providing a clear visual guide to the mixer's layout.

3.2 Front Panel Controls



Figure 3.2: Full top-down view of the XTUGA ES602 mixer, illustrating the comprehensive layout of its 7 channels, main output section, USB/MP3/Bluetooth module, and graphic equalizer. This image provides a complete visual reference for all controls and connections.

- **MIC/LINE Inputs (Channels 1-5):** XLR and 1/4" TRS combo jacks for connecting microphones or line-level instruments.
- **GAIN Control:** Adjusts the input sensitivity for each channel.
- **HIGH/MID/LOW EQ:** Three-band equalizer for shaping the tone of each channel.
- **AUX/EFF Send:** Controls the amount of signal sent to the auxiliary or effects bus.
- **PAN Control:** Adjusts the stereo position of the channel signal (left to right).
- **PEAK LED:** Illuminates when the input signal is too high, indicating potential clipping.
- **Channel Faders:** Adjust the output level of individual channels.
- **+48V Phantom Power:** Switch to provide power for condenser microphones.
- **MAIN OUT (L/R):** XLR and 1/4" TRS outputs for connecting to main speakers or amplifiers.
- **USB/MP3/Bluetooth Module:** Controls for media playback, recording, and Bluetooth pairing.
- **Graphic Equalizer:** 7-band graphic EQ for overall mix shaping.
- **Digital Effect Processor:** Built-in effects (e.g., Delay, Reverb) with level and parameter controls.
- **PHONES Output:** 1/4" TRS output for headphones with dedicated volume control.

- **AUX/RETURN:** Auxiliary input/output for external effects or monitoring.
- **CTRL OUT:** Control room outputs.
- **REC/PLAY RCA:** RCA inputs/outputs for connecting to recording devices.

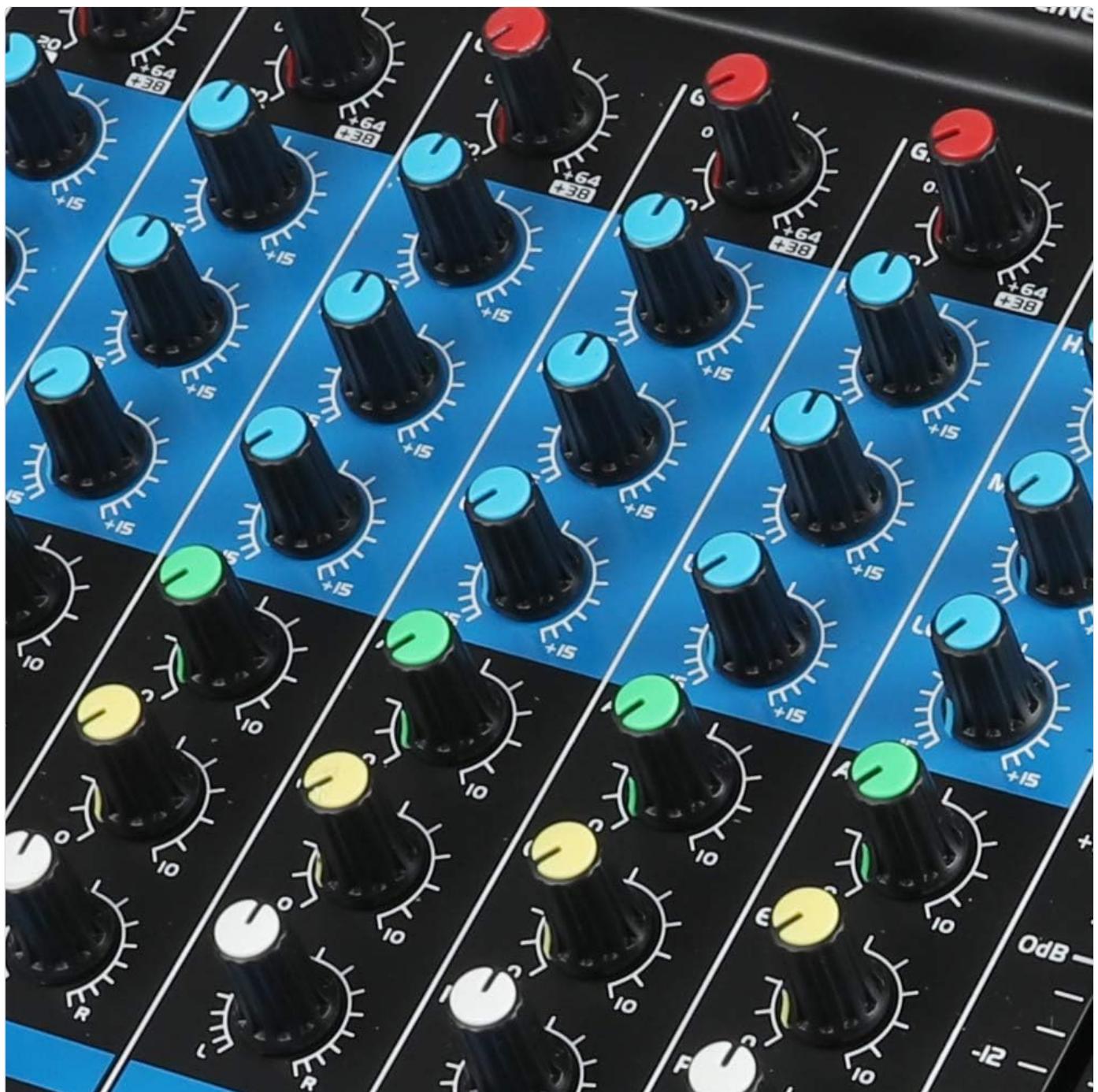


Figure 3.3: Detailed view of the main output section, including XLR and 1/4" TRS outputs, along with the USB interface and media playback controls. This image highlights the connectivity options for main speakers and digital audio sources.



Figure 3.4: Close-up of the individual channel faders and PFL (Pre-Fader Listen) buttons. This view emphasizes the precise level control and monitoring capabilities for each input channel.



Figure 3.5: Detailed shot of the rotary knobs for gain, three-band EQ (High, Mid, Low), and auxiliary/effect sends. This image illustrates the tactile controls available for fine-tuning the audio signal on each channel.

4. INITIAL SETUP

4.1 Power Connection

1. Ensure the mixer's power switch is in the OFF position.
2. Connect the provided power adapter to the AC IN port on the rear of the mixer.
3. Plug the power adapter into a suitable electrical outlet.
4. Turn on the mixer using the power switch. The power indicator light will illuminate.

4.2 Connecting Audio Sources

- **Microphones:** Connect dynamic or condenser microphones to the MIC/LINE inputs (XLR jacks). If using condenser microphones, activate the +48V Phantom Power switch (ensure all other connections are made before activating).
- **Line-Level Instruments/Devices:** Connect keyboards, guitars (with a DI box), or other line-level audio devices to

the MIC/LINE inputs using 1/4" TRS cables.

- **External Playback Devices:** Use the RCA REC/PLAY inputs for CD players, media players, or other consumer audio devices.

4.3 Connecting Output Devices

- **Main Speakers/Amplifier:** Connect your main speakers or power amplifier to the MAIN OUT (L/R) XLR or 1/4" TRS jacks.
- **Headphones:** Plug your headphones into the PHONES 1/4" TRS jack.
- **Recording Device:** Connect a recording device to the REC OUT RCA jacks.

5. OPERATION GUIDE

5.1 Basic Mixing

1. **Gain Staging:** Set the GAIN knob for each active channel so that the PEAK LED flashes only occasionally during the loudest parts of the signal. This ensures a strong signal without distortion.
2. **Equalization (EQ):** Use the HIGH, MID, and LOW knobs to adjust the tonal characteristics of each input. Turn clockwise to boost frequencies, counter-clockwise to cut.
3. **Pan:** Position the sound source in the stereo field using the PAN knob.
4. **Channel Level:** Use the channel faders to set the relative volume of each input in the mix.
5. **Main Mix:** Adjust the MAIN L/R faders to control the overall output volume of the mixer.

5.2 Using the Digital Effects

The ES602 features a built-in digital effects processor. To apply effects:

1. Use the EFF SEND knob on each channel to send signal to the effects processor.
2. Select the desired effect (e.g., Delay, Reverb) using the effect program selector.
3. Adjust the EFF LEVEL knob to control the overall wet/dry mix of the effects.
4. Fine-tune effect parameters (e.g., Delay time, Reverb decay) using the dedicated parameter knobs.

5.3 USB Playback/Recording

- **USB Playback:** Insert a USB flash drive containing MP3 files into the USB port. Use the transport controls (Play/Pause, Next, Previous) on the USB module to navigate and play tracks.
- **USB Recording:** The mixer can record the main mix directly to a USB flash drive. Refer to the USB module's display and controls for recording functions.
- **PC Connection:** Connect the mixer to a computer via the USB port for audio interface functionality (playback and recording through a DAW).

5.4 Bluetooth Connectivity

1. Activate Bluetooth mode on the USB/MP3/Bluetooth module. The display will indicate Bluetooth pairing mode.
2. On your mobile device (smartphone, tablet), search for Bluetooth devices and select "XTUGA ES602" (or similar name).
3. Once paired, audio from your device will play through the mixer. Adjust the USB/MP3/Bluetooth module's volume control.

5.5 Phantom Power (+48V)

The +48V phantom power switch provides power to condenser microphones. Ensure all connections are made before

activating phantom power to prevent damage to non-phantom powered devices. Always turn off phantom power before connecting or disconnecting microphones.

6. CARE AND MAINTENANCE

- Cleaning:** Use a soft, dry cloth to clean the mixer's surface. Do not use liquid cleaners or solvents.
- Storage:** 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.
- Ventilation:** Ensure proper ventilation around the unit to prevent overheating. Do not block vents.

7. TROUBLESHOOTING COMMON ISSUES

Problem	Possible Cause	Solution
No sound output from main speakers.	Power off; Main faders down; Speaker/amp off or disconnected; Incorrect input selection.	Check power, raise main faders, ensure speakers/amp are on and connected correctly, verify input routing.
No sound from a specific channel.	Channel fader down; GAIN too low; Mute engaged; Cable issue; Incorrect input.	Raise channel fader, increase GAIN, check for mute, test cables, ensure correct input is used.
Distorted audio.	GAIN too high (PEAK LED constantly on); Output level too high; Faulty cable/device.	Reduce GAIN, lower main output faders, test with different cables/devices.
Bluetooth not connecting.	Mixer not in pairing mode; Device too far; Interference; Already paired to another device.	Ensure mixer is in Bluetooth pairing mode, bring device closer, restart both devices, unpair from other devices.
USB playback not working.	Incorrect file format; USB drive not recognized; USB drive corrupted.	Ensure files are MP3, try reformatting USB drive (FAT32), test with another USB drive.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	ES602-Red
Number of Channels	7
Connectivity Technology	Bluetooth, USB
Audio Input	USB
Phantom Power	+48V (switchable)
Product Dimensions	46 x 41 x 14 cm
Item Weight	4.22 kg
UPC	699962697030

9. WARRANTY AND CUSTOMER SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official XTUGA website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.

For additional resources and product updates, visit the [XTUGA Store on Amazon](#).

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