

BOMGE CT80S-pro

BOMGE CT80S-pro 8-Channel Professional Mixer User Manual

Model: CT80S-pro

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your BOMGE CT80S-pro 8-Channel Professional Mixer. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

The BOMGE CT80S-pro 8-channel mixer supports wired and wireless connections for microphones, instruments, and other audio sources. It is suitable for various applications including home KTV, band performances, campus events, and conferences.

2. PRODUCT OVERVIEW

The BOMGE CT80S-pro is a compact 8-channel audio mixer designed for versatile audio mixing and recording. It features multiple input options, integrated digital signal processing (DSP) effects, Bluetooth connectivity, and USB recording capabilities.

2.1 Key Features

- 8 input channels with XLR and 6.35mm unbalanced jacks.
- +48V Phantom Power for condenser microphones.
- Integrated 99-bit DSP effects processor.
- 3-band equalizer on all channels.
- USB/Flash drive/MP3 compatibility for playback and recording.
- Bluetooth wireless streaming.
- LED peak level indicators and 10-segment stereo output level meter.
- Compact chassis with sealed rotary controls for dust resistance.

2.2 Mixer Layout



Figure 1: Top view of the BOMGE CT80S-pro 8-Channel Professional Mixer, showing all controls and input/output ports.

The mixer features a control panel with individual channel controls, master controls, and a digital display for DSP effects and media playback. Input and output ports are located on the top and rear panels.

3. SETUP

3.1 Power Connection

The mixer operates on a 5V power supply. It can be powered via a power bank, a standard power plug, or a computer USB port.

+48V PHANTOM POWER

INDEPENDENT PHANTOM POWER FOR EACH CHANNEL, SUPPORT A VARIETY OF CONDENSER MICROPHONE



Figure 2: The mixer can be powered by a power bank, a power plug, or a computer via USB.

1. Connect the provided USB power cable to the DC 5V input port on the rear of the mixer.
2. Connect the other end of the USB cable to a compatible 5V power source (e.g., power bank, USB wall adapter, computer USB port).
3. Press the POWER button on the top right of the mixer to turn it on.

3.2 Connecting Audio Sources

The mixer provides multiple input options for various audio devices.

PRODUCT DETAIL PRESENTATION



Figure 3: Detail of the microphone and line input jacks on the mixer.

- **Microphones:** Connect XLR or 6.35mm (1/4 inch) microphone cables to the MIC/LINE input jacks (LINE 1-6). For condenser microphones requiring phantom power, activate the +48V PHANTOM POWER button for the respective channel.
- **Line-level Instruments/Devices:** Connect instruments or other line-level devices using 6.35mm (1/4 inch) cables to the MIC/LINE input jacks.



Figure 4: The +48V phantom power button, used for condenser microphones.

Important: Ensure phantom power is only activated when using condenser microphones that require it. Do not activate phantom power for dynamic microphones or other devices that do not require it, as this may cause damage.

3.3 Connecting Output Devices

- **Main Output:** Connect your main speakers or amplifier to the OUT-L and OUT-R (TRS or XLR) jacks.
- **Headphones:** Connect headphones to the PHONES jack for monitoring.
- **Recording Output:** Use the REC OUT (RCA) for connecting to a recording device.

4. OPERATING INSTRUCTIONS

4.1 Channel Controls

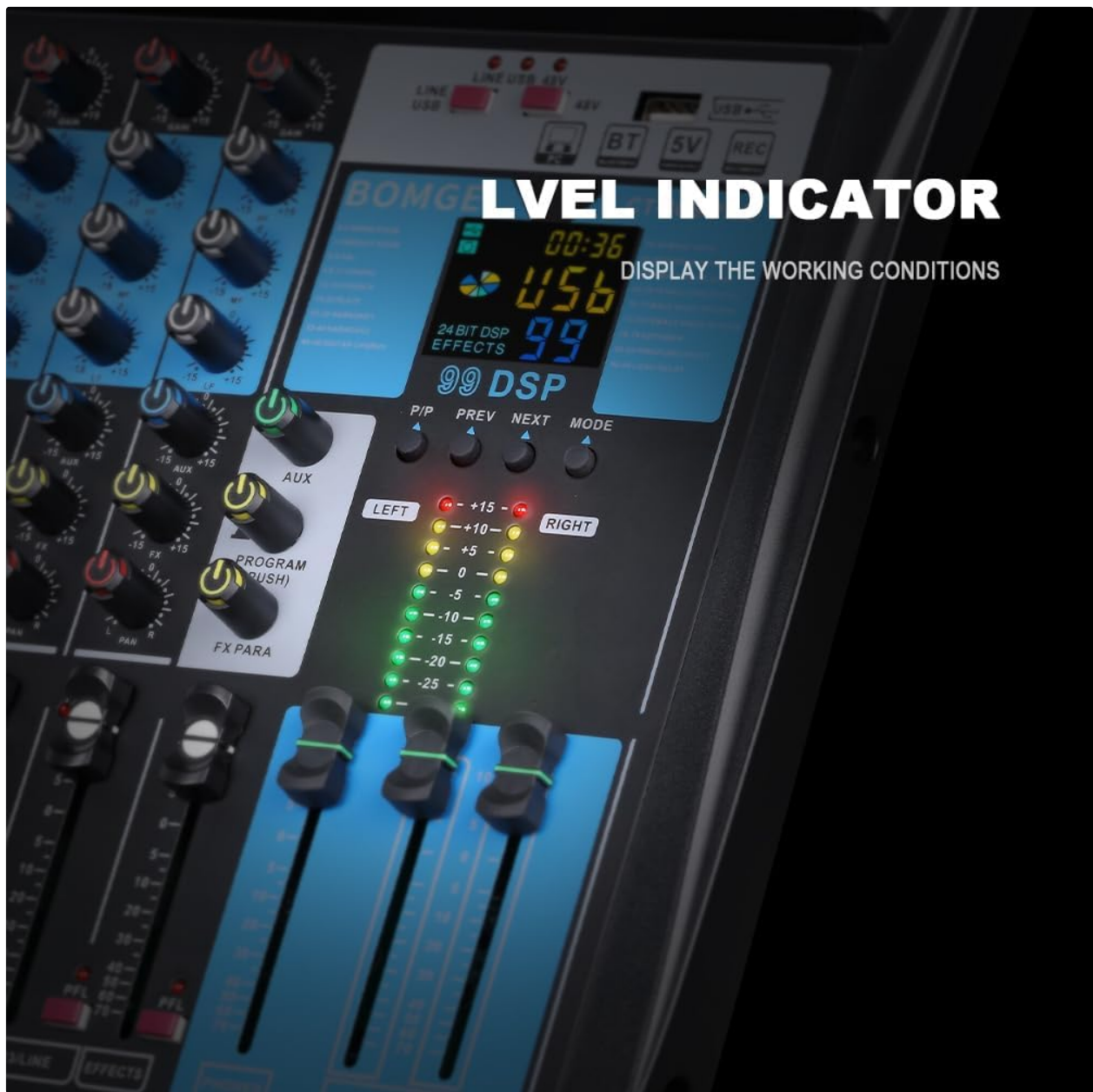


Figure 5: Detail of individual channel controls including gain, EQ, and pan.

- **GAIN:** Adjusts the input sensitivity for each channel. Set this to achieve a strong signal without clipping (distortion).
- **3-Band EQ (HIGH, MIDDLE, LOW):** Adjusts the treble, midrange, and bass frequencies for each channel.

3-BAND EQ ADJUSTMENT

FINER ADJUSTMENTS ARE POSSIBLE FOR MORE
ACCURATE, CRISP AND CLEAR SOUND

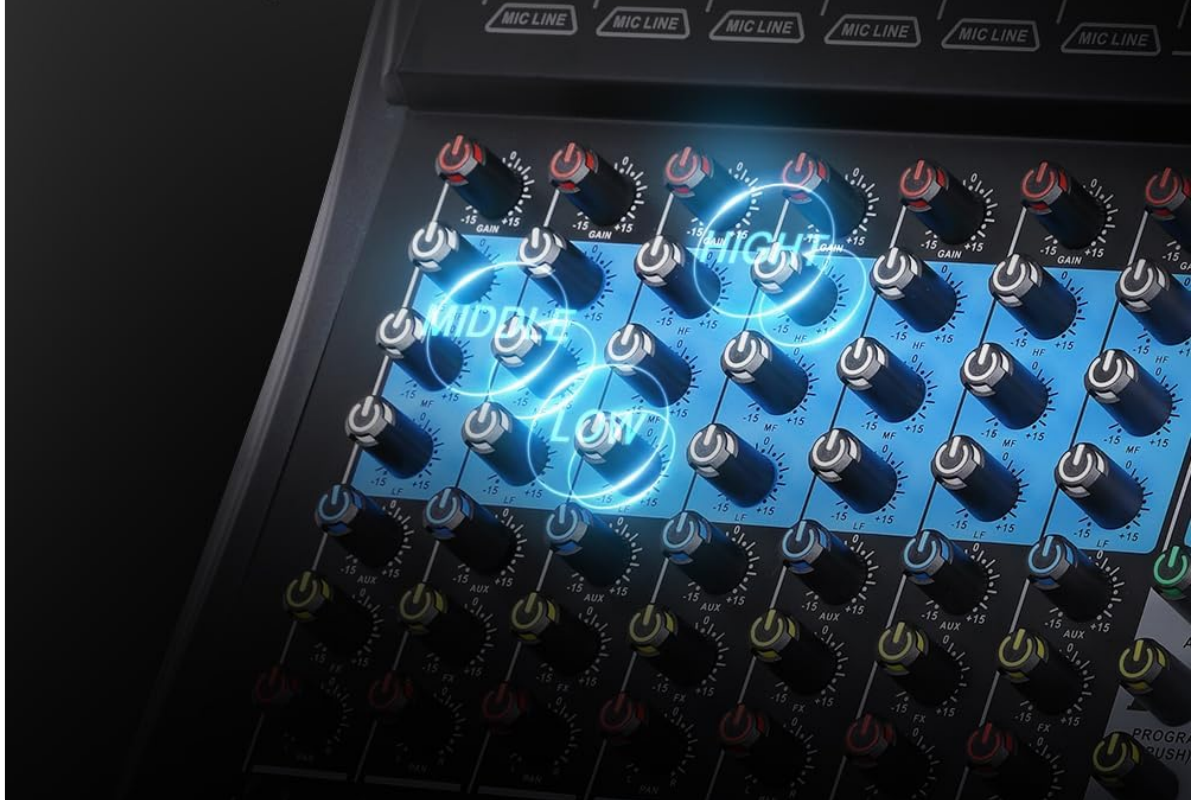


Figure 6: The HIGH, MIDDLE, and LOW knobs for 3-band equalization on each channel, allowing for precise tone adjustments.

- **AUX:** Controls the send level to the auxiliary output or internal effects processor.
- **PAN:** Adjusts the stereo position (left/right) of the channel in the main mix.
- **LEVEL FADER:** Controls the output volume of the individual channel to the main mix.
- **PFL (Pre-Fader Listen):** Activates pre-fader monitoring of the channel through headphones.

4.2 Master Controls

- **MAIN L/R FADERS:** Control the overall volume of the stereo main output.
- **PHONES:** Adjusts the headphone output volume.
- **LEVEL INDICATOR:** A 10-segment LED meter displays the main output level. Adjust channel and master faders to keep levels within the optimal range, avoiding the red "peak" indicators.

UNIVERSAL 5V POWER SUPPLY

CONVENIENCE AND EASE OF USE, NO ADDITIONAL POWER SUPPLY REQUIRED



Figure 7: The LED level indicator displays the current audio output levels, helping to prevent clipping.

4.3 DSP Effects

The mixer includes an integrated DSP processor with 99 selectable effects.



Figure 8: The DSP section with a digital display showing the selected effect number and controls for adjustment.

1. Use the **PROGRAM** knob to select one of the 99 available effects. The selected effect number will be displayed on the screen.
2. Adjust the **FX PARA** (Effect Parameter) knob to modify parameters of the selected effect (e.g., delay time, reverb decay).
3. Use the **FX LEVEL** control to adjust the overall volume of the effects send.
4. The **FX TO MAIN** fader controls how much of the processed effect signal is sent to the main stereo output.

4.4 USB/MP3 Playback and Recording

The mixer supports playback from USB flash drives and can function as a USB audio interface for computers.

WIRELESS BLUETOOTH

COMPATIBLE WITH SMART DEVICES



Figure 9: The USB port and controls for connecting to a computer or USB flash drive for playback and recording.

- **USB Playback:** Insert a USB flash drive containing MP3 files into the USB port. Use the integrated controls (PLAY/PAUSE, PREV, NEXT, MODE) to navigate and play tracks.
- **USB Audio Interface:** Connect the mixer to a computer via the USB-B port. The mixer can function as an external sound card, allowing you to mix and record audio directly to your computer.
- **Recording:** The mixer can record audio to a connected USB device or a computer via the USB-B interface. Refer to your recording software's instructions for setting up the mixer as an input device.

4.5 Bluetooth Connectivity

The mixer allows for wireless audio streaming from Bluetooth-enabled devices.

WIRELESS BLUETOOTH

COMPATIBLE WITH SMART DEVICES



Figure 10: The Bluetooth function allows wireless audio streaming from smart devices.

1. Press the **MODE** button on the USB/MP3 section until "BT" (Bluetooth) is displayed.
2. On your smart device (e.g., smartphone, tablet), search for available Bluetooth devices and select "BOMGE Mixer" (or similar name).
3. Once paired, you can stream audio wirelessly from your device to the mixer.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the mixer's surface. Avoid using liquid cleaners or solvents.
- **Storage:** Store the mixer in a cool, dry place away from direct sunlight and extreme temperatures.
- **Dust Protection:** The sealed rotary controls are designed to resist dust. However, regular cleaning helps maintain optimal performance.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable not connected; Power source faulty; Mixer not switched on.	Ensure power cable is securely connected. Check power source. Press the POWER button.

Problem	Possible Cause	Solution
No sound output	Volume faders are down; Mute engaged; Incorrect input/output connections; Faulty cables.	Increase channel and main faders. Check all cable connections. Test with different cables.
Distorted sound	Input gain too high; Output level too high; Faulty cable/device.	Reduce input GAIN. Lower main output faders. Check for red peak indicators. Test cables.
Phantom power not working	+48V button not pressed; Condenser microphone not connected.	Ensure the +48V button is pressed for the specific channel. Verify condenser microphone connection.
Bluetooth connection issues	Mixer not in Bluetooth mode; Device not discoverable; Interference.	Ensure mixer is in BT mode. Make sure your device's Bluetooth is on and discoverable. Try re-pairing.

7. SPECIFICATIONS

Feature	Detail
Brand	BOMGE
Model Number	8Channel-99DSP (CT80S-pro)
Dimensions (L x W x H)	37.5 x 34 x 3.7 cm
Weight	1.34 Kilograms
Number of Channels	8
Connectivity Technology	Bluetooth, USB
Power Source	Battery Powered (via 5V USB)
Voltage	5 Volts
Output Connector Type	RCA, TRS, XLR
Audio Input	USB
DSP Effects	99 built-in effects
Phantom Power	+48V
UPC	768447426622

8. WARRANTY AND SUPPORT

Information regarding product warranty and customer support is not available in the provided product data. Please refer to the product packaging or the manufacturer's official website for details on warranty coverage and how to contact customer support.

