

BOMGE 04E

BOMGE 04E Karaoke Audio Mixer Instruction Manual

Model: 04E | Brand: BOMGE

1. INTRODUCTION

The BOMGE 04E is a versatile 4-channel audio mixer designed for a wide range of audio applications, including karaoke, DJ performances, studio recording, and live streaming. It features dual UHF wireless microphones, MP3 and Bluetooth compatibility, 48V phantom power, and a USB audio interface, offering comprehensive control over your sound. This manual will guide you through the setup, operation, and maintenance of your BOMGE 04E mixer.

2. KEY FEATURES

- **Mic and Stereo Line Input:** Supports XLR and unbalanced 1/4" plug with +48V Phantom button, 3.5MM 5V Mic Jack. Features highly accurate LED Peak Level Indicator and Ultra-musical 3-band EQ on channels 1 and 2. A PAD Button -20DB on channel 1 can be used for high-sensitivity signals (e.g., guitar, electronic musical instruments, bass).
- **USB/Flash Reader/MP3 Compatibility:** Connect external USB devices, computers, flash drives, or Bluetooth devices for mixing and recording. Built-in controls allow for play/pause, track skipping, and mode switching.
- **24 DSP Effect Capability:** Integrated 24-bit digital effect processor with effects such as soprano, devil bass, children's voice, 7 levels of delay, and 14 levels of Echo+delay.
- **Bluetooth Wireless Streaming:** Seamless and cable-free audio streaming from devices like iPad, iPhone, and Android smartphones.
- **Dual Headphone Monitoring:** Equipped with 3.5mm and 6.35mm headphone jacks for simultaneous monitoring of sound and volume.
- **Wide Range of Uses:** Ideal for home karaoke systems (connects to TV), parties, DJ sets, recording, live singing, broadcasting, and studio streaming.

3. PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the main components and layout of your BOMGE 04E audio mixer.



Figure 3.1: BOMGE 04E Audio Mixer and Dual Wireless Microphones.



Figure 3.2: Professional Audio Mixer BMG-04E with Wireless Mic, highlighting Bluetooth, USB, and UHF wireless receiver capabilities.

PRODUCT DESCRIPTION

USE 5V 2A POWER PLUG

INPUT&OUTPUT

MIC INPUT	xlr input x 2 & mic 3.5mm input x 1	REC OUTPUT	setreo rca output x 2
LINE INPUT	6.35mm audio input jack x 2	2-TK OUTPUT	2-TK setreo RCA input & output x 2
AUX INPUT	3.5mm audio input jack x 1	MONITOR OUT	3.5mm&6.35mm audio output jack x 1
USB INPUT	USB input & record x 1	MAIN OUT	6.35mm output x 2

Figure 3.3: Product Description with detailed Input & Output specifications.

MIC INPUT: XLR input x 2 & mic 3.5mm input x 1

LINE INPUT: 6.35mm audio input jack x 2

AUX INPUT: 3.5mm audio input jack x 1

USB INPUT: USB input & record x 1

REC OUTPUT: Stereo RCA output x 2

2-TK OUTPUT: 2-TK stereo RCA input & output x 2

MONITOR OUT: 3.5mm & 6.35mm audio output jack x 1

MAIN OUT: 6.35mm output x 2



Figure 3.4: The 3-stage EQ is adjustable for easy control of high, mid, and low bass frequencies.

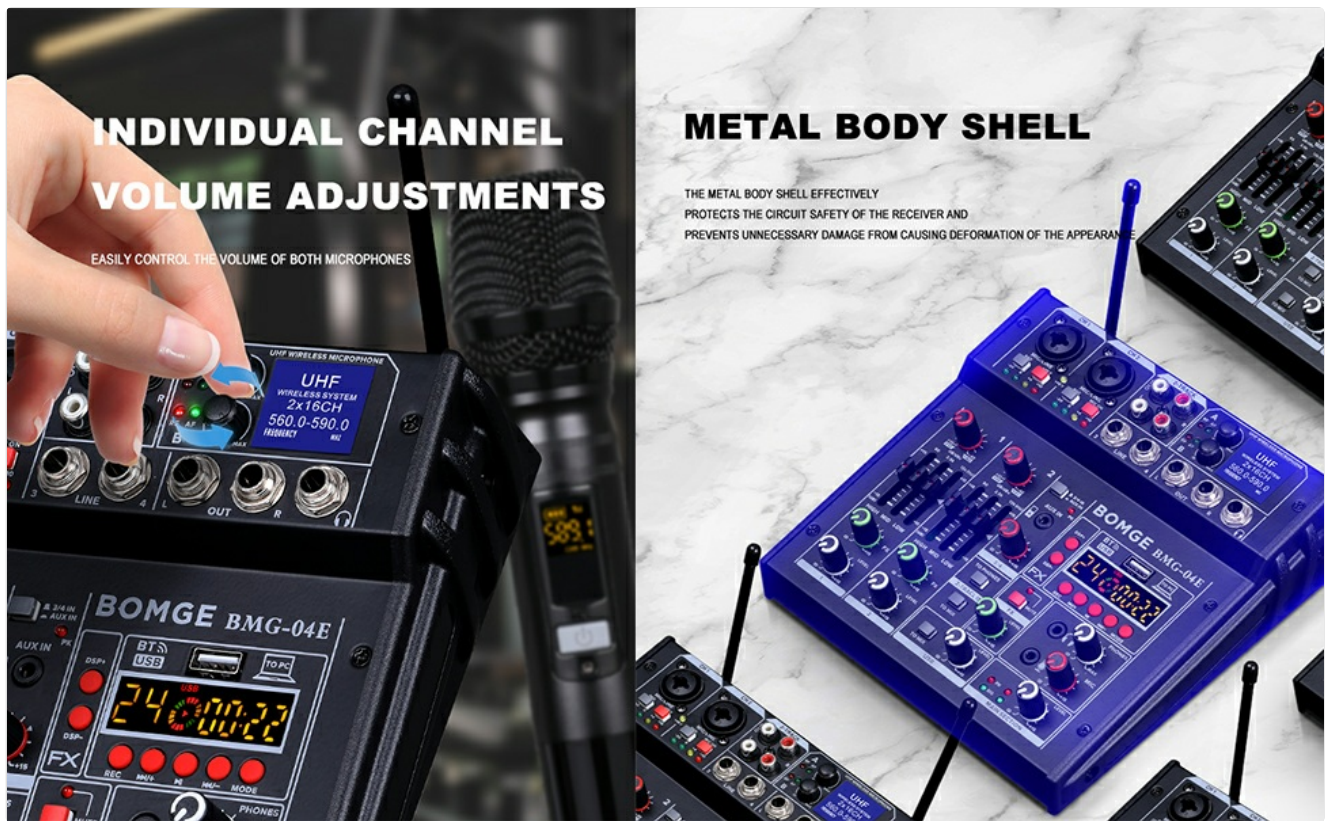


Figure 3.5: Individual Channel Volume Adjustments and Durable Metal Body Shell.

4. SETUP AND CONNECTIONS

Proper connection is crucial for optimal performance. Follow these steps to set up your BOMGE 04E mixer.

4.1 Power Connection

Connect the mixer to a power source using the provided 5V/3A DC power adapter. The power switch is located on the rear panel.

48V/5V JACK

SUPPORT USE 48V/5V CONDENSER MIC 0 DELAY 3.5MM MONITOR JACK

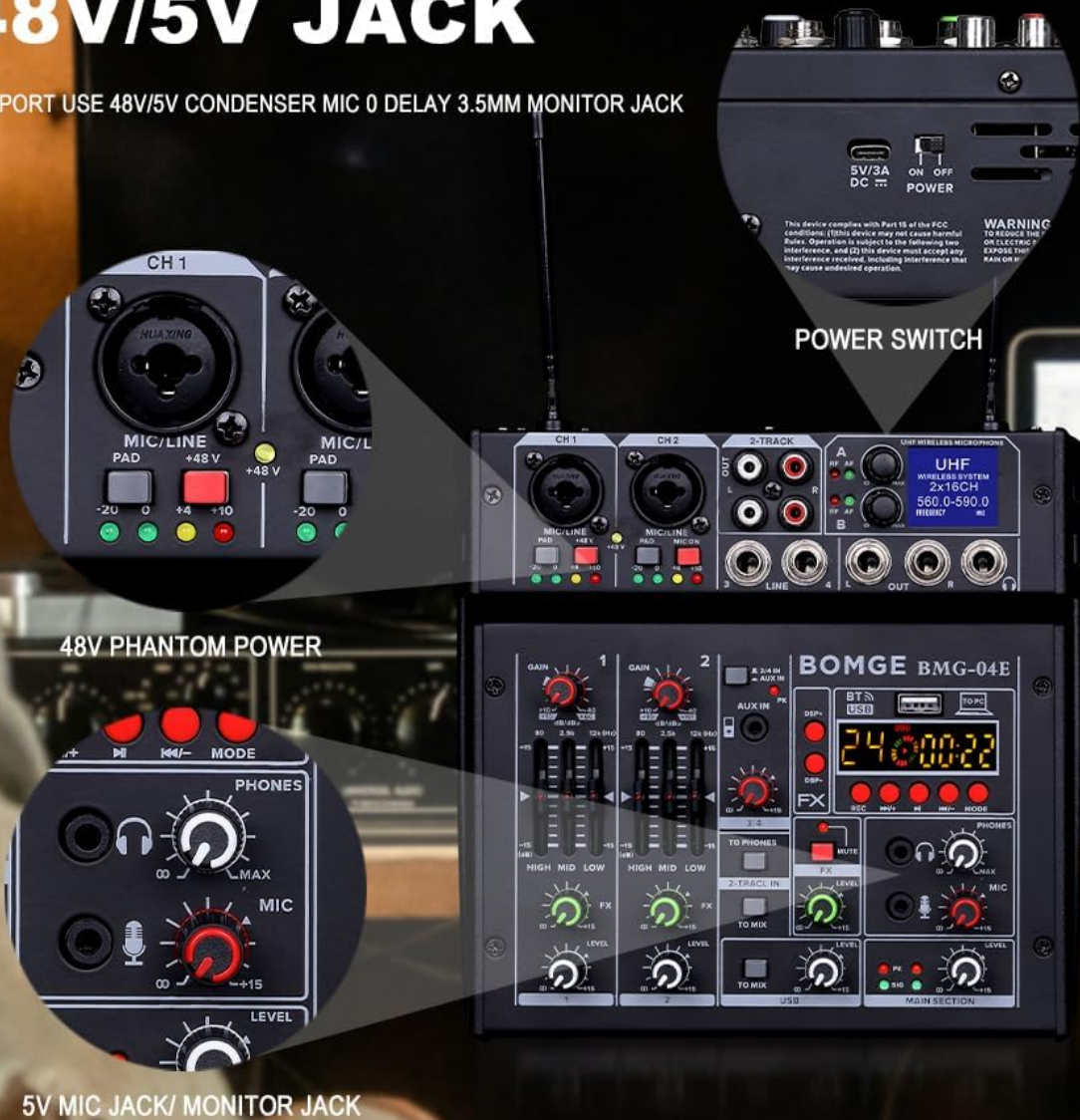


Figure 4.1: Power input and switch location.

4.2 Audio Input Connections

- **Microphones:** Connect XLR or 1/4" (6.35mm) microphones to the MIC/LINE inputs (CH1, CH2). For condenser microphones requiring phantom power, activate the +48V Phantom button. The 3.5mm 5V Mic Jack is also available.
- **Line-Level Devices:** Connect instruments or other audio sources to the 1/4" (6.35mm) LINE inputs.
- **AUX Input:** Use the 3.5mm AUX IN for connecting external audio players.
- **USB Input:** Insert a USB flash drive for MP3 playback or connect to a computer via USB for audio interface functions.



6 INPUTS

MIXER IS EQUIPPED 2 COMBO JACK XLR+6.35MM FOR MIC/LINE/GUITAR INPUTS, 2-TK STEREO RCA IN, AUX, AND 3.5MM MIC INPUT. IS PERFECT FOR DJ PARTY/MUSIC RECORDING/CREATIVE REMIX

Figure 4.2: Mixer inputs, including 2 combo jack XLR+6.35mm for mic/line/guitar, 2-TK stereo RCA IN, AUX, and 3.5mm MIC input.

4.3 Output Connections

- **Main Output:** Connect to speakers or an amplifier via the 6.35mm MAIN OUT jacks.
- **Headphones:** Use the 3.5mm or 6.35mm PHONES jacks for monitoring.
- **Recording Output:** Use the REC OUT RCA jacks to connect to a recording device.

4.4 Connection Diagrams

METHOD ONE

SCHEMATIC DIAGRAM OF THE CONNECTION

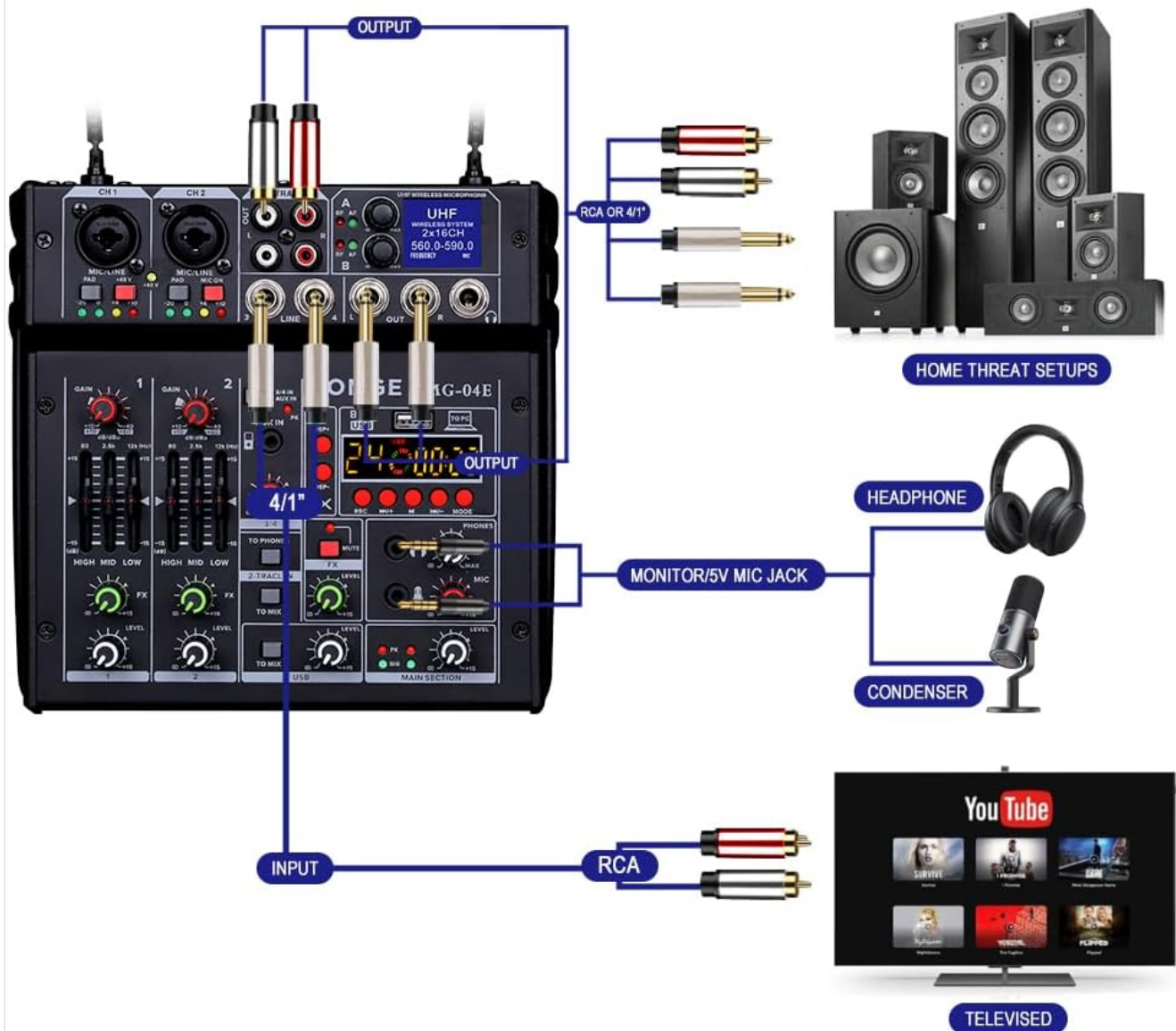


Figure 4.3: Connection Method One - Direct connections for home theater setups, headphones, condenser microphones, and TV.

METHOD TWO

SCHEMATIC DIAGRAM OF THE CONNECTION

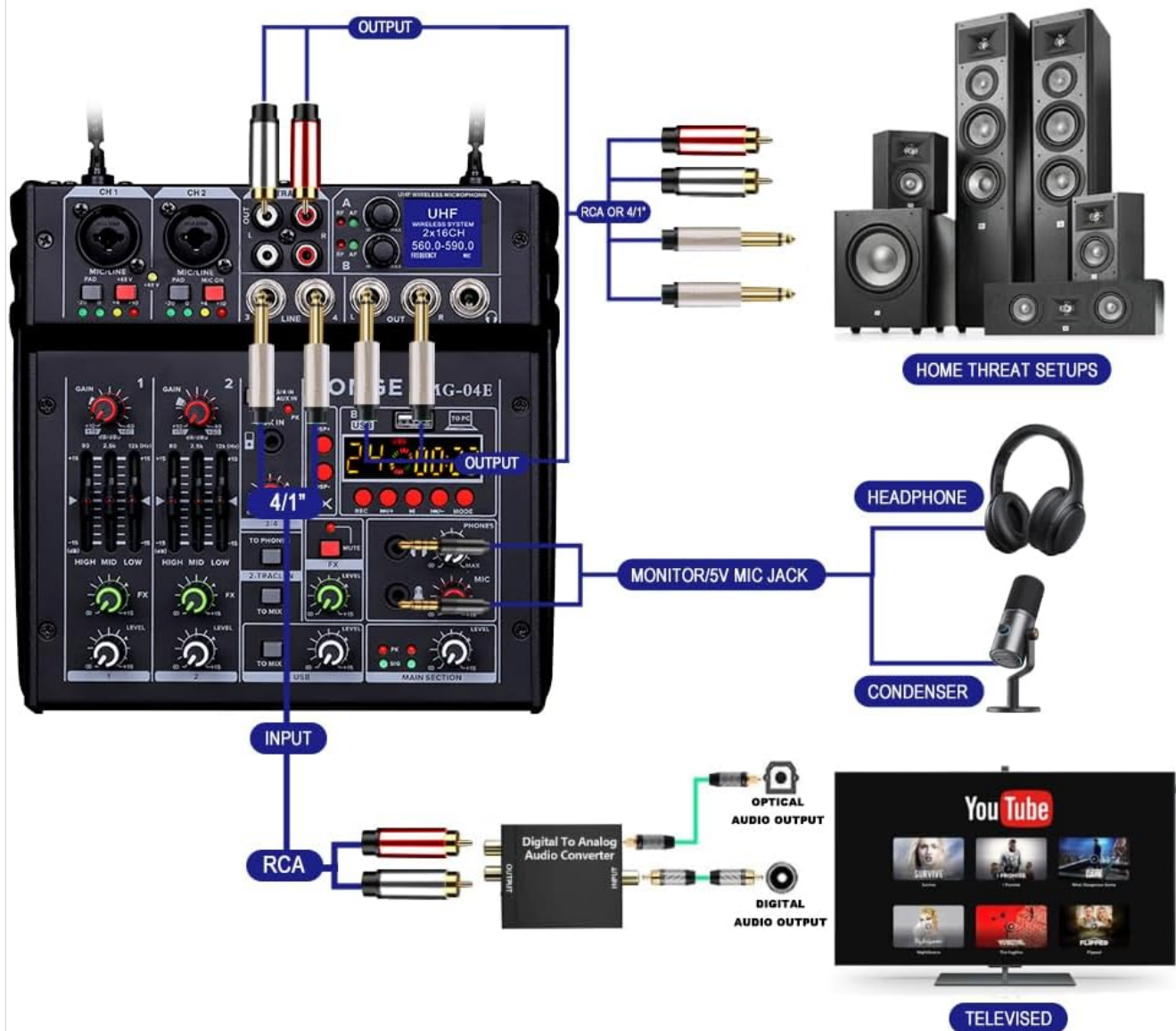


Figure 4.4: Connection Method Two - Connections including a Digital to Analog Audio Converter for TV audio input.

4.5 Video Demonstration: Setup and Functionality

Video 4.1: This video demonstrates the setup process for the BOMGE 04E audio mixer, including connecting to a computer and a smartphone, and testing the wireless microphones. It also shows the various modes (Bluetooth, USB, PC) and basic audio testing.

5. OPERATING INSTRUCTIONS

This section details the operation of the BOMGE 04E mixer's various functions.

5.1 Channel Controls

- **GAIN:** Adjusts the input sensitivity for each channel.
- **EQ (High, Mid, Low):** Use the 3-band equalizer sliders to shape the tone of each channel.
- **FX:** Controls the amount of effect applied to each channel.
- **LEVEL:** Adjusts the output volume of each channel.

5.2 Wireless Microphones

The BOMGE 04E comes with dual UHF wireless microphones. Ensure the microphones are powered on and paired with the mixer. The mixer's display shows the UHF wireless system status and frequency (e.g., 2x16CH, 560.0-590.0 MHz).



Figure 5.1: UHF Wireless Microphones with 100 meters transmission distance.



Figure 5.2: 16 Frequency Points Adjustable. You can easily avoid interference by selecting different frequency points.

5.3 Bluetooth and USB/MP3 Playback

The mixer supports Bluetooth 5.0 and USB 2.0 for audio playback.

- **Bluetooth:** Select Bluetooth mode on the mixer's display. Pair your smartphone or other Bluetooth device with the mixer.
- **USB/MP3:** Insert a USB flash drive containing MP3 files. Use the transport controls (play/pause, skip) on the mixer to manage playback.

SMALL MIXER BUT FULLY FUNCTIONAL

BUILT-IN BLUETOOTH 5.0 MODULE
AND USB 2.0 INTERFACE



Figure 5.3: Small Mixer but Fully Functional, with built-in Bluetooth 5.0 module and USB 2.0 interface.

5.4 DSP Effects

The BOMGE 04E includes a 24-bit digital effect processor. Use the FX controls to apply various effects to your audio. Available effects include soprano, devil bass, children's voice, 7 levels of delay, and 14 levels of Echo+delay.

6. MAINTENANCE

To ensure the longevity and optimal performance of your BOMGE 04E mixer, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the mixer. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the mixer in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Handle the mixer and microphones with care to prevent physical damage. Avoid dropping or subjecting them to strong impacts.
- **Ventilation:** Ensure proper ventilation around the mixer to prevent overheating. Do not block ventilation openings.

7. TROUBLESHOOTING

If you encounter issues with your BOMGE 04E mixer, refer to the following common troubleshooting steps:

- **No Sound Output:**
 - Check all cable connections (input, output, power).
 - Ensure the mixer is powered on and all volume levels (channel, main, headphone) are turned up.
 - Verify that the correct input source (USB, Bluetooth, Line, Mic) is selected.
 - For microphones, ensure they are powered on and properly paired (for wireless mics) or phantom power is activated (for condenser mics).
- **Poor Microphone Quality/Interference:**
 - Check microphone battery levels.
 - Adjust microphone gain levels to avoid clipping (indicated by red peak LEDs).
 - For wireless mics, try changing the frequency channel to avoid interference (refer to Figure 5.2).
 - Ensure microphones are within the effective operating range.
- **Bluetooth Connection Issues:**
 - Ensure Bluetooth mode is selected on the mixer.
 - Make sure the Bluetooth device is in pairing mode and within range.
 - Forget the device on your phone/tablet and re-pair.
- **USB Playback/Recording Not Working:**
 - Ensure the USB drive is formatted correctly (FAT32 is commonly supported).
 - Check that the audio files are in a supported format (e.g., MP3).
 - For PC connection, ensure the mixer is recognized as an audio device in your computer's sound settings.

8. TECHNICAL SPECIFICATIONS

Specification	Value
Product Dimensions	18.8 x 18.29 x 3.81 cm
Item Model Number	04E
Power Source	Corded Electric
Voltage	5 Volts
Item Weight	1.55 kg
Number of Channels	4
Connectivity Technology	Bluetooth, USB
Manufacturer	BOMGE

Specification	Value
Country of Origin	China

9. SAFETY INFORMATION

- Please read and adhere to the following safety precautions to prevent damage to the device or injury to yourself:
- Do not expose the unit to rain or moisture.
 - Do not place the unit near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
 - 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.

10. WARRANTY AND SUPPORT

Your BOMGE 04E Audio Mixer is covered by a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact BOMGE customer support. For technical support, troubleshooting assistance, or service inquiries, please visit the official BOMGE website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question