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BOMGE BMG-M12

BOMGE M12 USB Audio Interface User Manual

Model: BMG-M12

1. PRODUCT OVERVIEW

The BOMGE M12 is a compact and versatile 2-channel USB audio interface designed for recording, live streaming, karaoke, and studio applications. It features XLR/6.35mm combo inputs, 48V phantom power, and intuitive controls for easy operation. This manual provides detailed instructions to help you get the most out of your M12 audio interface.



Figure 1: Front view of the BOMGE M12 USB Audio Interface, showing all controls and input/output ports.

2. SETUP GUIDE

2.1 Package Contents

- BOMGE M12 USB Audio Interface
- USB Type-C to USB-A Cable
- User Manual

2.2 Connecting to Your Computer

The BOMGE M12 is a Plug&Play device, meaning it typically does not require special drivers for Windows, macOS, or Android operating systems. Simply connect the interface to your computer using the provided USB Type-C to USB-A cable.

1. Connect the USB Type-C end of the cable to the 5V power input port on the rear of the M12 interface.

2. Connect the USB-A end of the cable to an available USB port on your computer.
3. The device will be automatically recognized by your operating system. You may need to select "BOMGE M12" as your audio input and output device in your computer's sound settings or your recording software.



Figure 2: Rear view of the BOMGE M12, illustrating the Type-C 5V power input for connection to a computer or power source.

2.3 Input Connections

The M12 features versatile input options:

- **XLR/6.35mm Combo Inputs (INPUT-1, INPUT-2):** These inputs accept both XLR connectors for microphones and 6.35mm (1/4 inch) TRS/TS plugs for instruments (guitars, basses) or line-level devices.
- **3.5mm Mic Condenser Input:** An additional 3.5mm jack is available for connecting condenser microphones that do not require 48V phantom power.

2.4 Output Connections

The M12 provides multiple output options:

- **Line Output (OUT-1/L, OUT-2/R):** Two 6.35mm (1/4 inch) TRS outputs for connecting to studio monitors, amplifiers, or other audio playback systems.

- **Headphone Output (PHONES):** A 3.5mm headphone jack for real-time monitoring of your audio.

Your browser does not support the video tag.

Video 1: This video demonstrates the key features and connectivity of the BOMGE M12 USB Audio Interface, including power connection, input/output ports, and phantom power activation.

3. OPERATING INSTRUCTIONS

3.1 Controls Overview

Familiarize yourself with the controls on the front panel:



Figure 3: Detailed view of the BOMGE M12 audio interface, highlighting all controls and their labels.

- **1/L LEVEL & 2/R LEVEL Knobs:** Adjust the input gain for Input 1 and Input 2 respectively.
- **MAIN Knob:** Controls the overall output volume to the line outputs.
- **PHONES Knob:** Adjusts the volume for the headphone output.

- **HI/Z Buttons:** Activates high impedance mode for direct connection of guitars or basses.
- **ST MON Button:** Switches between Stereo and Mono monitoring modes.
- **REC (MIC / MIC+PC) Button:** Selects the recording source.
- **PHANTOM (+48V CH1-2) Button:** Activates 48V phantom power for condenser microphones connected to Input 1 and Input 2.
- **DIRECT MONITOR Button:** Enables direct monitoring of input signals with zero latency.
- **Level Indicators:** LED meters display input and output signal levels.

3.2 Using 48V Phantom Power

If you are using a condenser microphone that requires external power, activate the 48V phantom power:

1. Connect your condenser microphone to either INPUT-1 or INPUT-2 using an XLR cable.
2. Press the **PHANTOM (+48V CH1-2)** button. The corresponding +48V indicator light will illuminate.
3. Ensure the microphone is properly connected before activating phantom power to prevent damage.

3.3 Monitoring Your Audio

The M12 allows for real-time monitoring:

- Connect headphones to the **PHONES** jack.
- Adjust the **PHONES** knob to control the headphone volume.
- Press the **DIRECT MONITOR** button to hear your input signals directly without latency from your computer.



Figure 4: The BOMGE M12 audio interface with headphones connected, demonstrating real-time monitoring capability.

3.4 Mono & Stereo Switching

The **ST MON** button allows you to switch between stereo and mono output for your line outputs:

- When the button is pressed (down), the output is in **MONO**. This combines both input channels into a single mono signal.
- When the button is in the pop-up state (up), the output is in **STEREO**. Input 1 will be sent to the left channel and Input 2 to the right channel.



Figure 5: Visual explanation of the Mono and Stereo switch functionality on the M12 interface.

3.5 Recording Mode Switch

The **REC** button allows you to select the audio source for recording:

- When the button is in the 'MIC' position, only the microphone inputs are recorded.
- When the button is in the 'MIC+PC' position, both the microphone inputs and the audio playing from your computer are recorded simultaneously. This is useful for recording vocals over backing tracks.



Figure 6: The BOMGE M12 on a desk with a laptop, demonstrating the recording mode switch for microphone-only or microphone-plus-PC audio.

Your browser does not support the video tag.

Video 2: This video provides a closer look at the BOMGE M12 Audio Interface, showcasing its various controls, indicators, and how to adjust levels for optimal sound.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your BOMGE M12 audio interface:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using abrasive cleaners, solvents, or waxes, as they may damage the finish or internal components.
- **Storage:** When not in use, store the M12 in a cool, dry place away from direct sunlight, excessive heat, or moisture.
- **Handling:** Handle the device with care. Avoid dropping it or subjecting it to strong impacts.
- **Connections:** Always ensure cables are properly inserted and removed gently to prevent damage to the ports.

5. TROUBLESHOOTING

If you encounter issues with your BOMGE M12, refer to the following common problems and solutions:

- **No Sound Output:**

- Check all cable connections (USB, line outputs, headphones).
- Ensure the M12 is selected as the default audio output device in your computer's sound settings and recording software.
- Verify that the MAIN and PHONES volume knobs are turned up.
- Check the volume levels in your operating system and recording software.

- **No Input Signal:**

- Ensure your microphone or instrument is properly connected to the correct input.
- Adjust the 1/L LEVEL and 2/R LEVEL knobs to increase input gain.
- If using a condenser microphone, ensure 48V phantom power is activated (if required by the microphone).
- Check the HI/Z button for instruments.

- **Distortion or Noise:**

- Reduce the input gain (1/L LEVEL, 2/R LEVEL) if the signal is clipping (red LEDs on level indicators).
- Ensure all cables are in good condition and properly shielded.
- Avoid placing the interface near sources of electromagnetic interference.
- Check for ground loops if noise persists.

- **Device Not Recognized by Computer:**

- Try connecting the M12 to a different USB port on your computer.
- Restart your computer.
- Ensure the USB cable is not damaged.
- Verify that your operating system is up to date.

6. SPECIFICATIONS

Feature	Description
Model Number	BMG-M12
Item Weight	10.8 ounces
Package Dimensions	5.75 x 5.16 x 2.2 inches
Country of Origin	China
Number of Channels	2
Connectivity Technology	USB, 3.5mm, XLR
Audio Input	XLR, 3.5mm Microphone Jack
Output Connector Type	TRS, USB Type B
Voltage	5 Volts
Compatible Devices	Guitar, Microphone, PC, Studio Equipment, Headphone
Supported Software	Audacity, Ableton Live, FL Studio, Pro Tools
Operating System	ChromeOS, Windows, Mac OS, Android

7. WARRANTY AND SUPPORT

Warranty information for your BOMGE M12 USB Audio Interface is typically provided with your purchase. Please refer to the documentation included in your product packaging for specific warranty terms and conditions.

For technical support, troubleshooting assistance beyond this manual, or inquiries regarding product service, please contact BOMGE customer support through the official BOMGE website or your point of purchase. Ensure you have your product model number (BMG-M12) and purchase details ready when contacting support.

