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› BOMGE 12-Channel Professional Audio Mixer User Manual

BOMGE 12F-W

BOMGE 12-Channel Professional Audio Mixer User Manual

Model: 12F-W

1. INTRODUCTION

Thank you for purchasing the BOMGE 12-Channel Professional Audio Mixer. This mixer is designed for both professional and beginner users, offering a comprehensive set of features including 12 inputs, 99 DSP effects, 48V phantom power, USB audio interface, and Bluetooth connectivity. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your device.

2. IMPORTANT SAFETY INFORMATION

- Read all instructions carefully before operating the device.
- Keep this manual for future reference.
- Do not expose the device to rain or moisture.
- Do not block any ventilation openings.
- Use only attachments/accessories specified by the manufacturer.
- Unplug the device during lightning storms or when unused for long periods.
- Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Please check the package carefully to ensure all items are present and in good condition.

- BOMGE 12-Channel Professional Audio Mixer (12F-W)
- USB Power Cable
- User Manual

4. PRODUCT OVERVIEW

The BOMGE 12F-W mixer features a compact design with clearly marked controls for intuitive operation. Below is an overview of its main components and features.



Figure 4.1: Front view of the BOMGE 12F-W Audio Mixer, showing all channels, controls, and display.

4.1. Control Panel Layout

INTRODUCTION TO THE FUNCTION PANEL

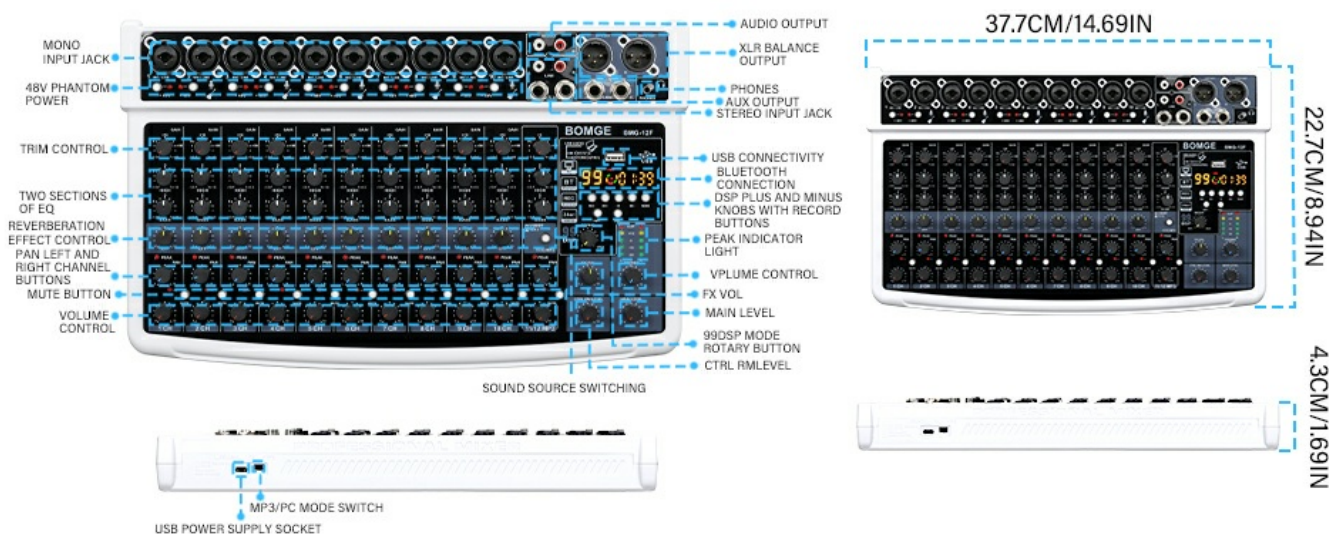


Figure 4.2: Detailed diagram illustrating the function panel and dimensions of the BOMGE 12F-W mixer.

- **Mono Input Jacks (1-10):** XLR/TRS combo jacks for microphones or line-level instruments.
- **+48V Phantom Power:** Individual switches for each channel to supply power to condenser microphones.
- **Gain Control:** Adjusts the input sensitivity for each channel.
- **EQ (High/Mid/Low):** Three-band equalizer for tone shaping on each channel.
- **Effect Send (EFF):** Controls the amount of signal sent to the internal DSP effects processor.
- **Pan Control:** Adjusts the stereo position of the channel signal.
- **Peak Indicator:** Lights up when the input signal is too high, indicating potential clipping.
- **Mute Button:** Mutes the individual channel.
- **Channel Fader/Volume Control:** Adjusts the output level of each channel.
- **Stereo Input (11/12 MP3):** Dedicated stereo input for external devices or MP3 playback.
- **USB Connectivity:** Port for connecting to a computer or USB flash drive.
- **Bluetooth Connectivity:** For wireless audio streaming from mobile devices.
- **DSP Effects Display & Controls:** Digital display showing the selected effect and controls for effect selection and parameter adjustment.
- **Main Level Control:** Adjusts the overall output volume of the mixer.
- **Headphone Output:** 3.5mm jack for monitoring the mix.
- **Main Output (XLR/RCA):** Balanced XLR and unbalanced RCA outputs for connecting to amplifiers or recording devices.

4.2. Key Features

- **12 Input Channels:** Versatile input options for microphones, instruments, and line-level devices.
- **99 DSP Effects:** Built-in digital effects processor with a wide range of effects including echo, delay, chorus, and reverb.
- **+48V Phantom Power:** Individual phantom power for condenser microphones on channels 1-10.
- **USB Audio Interface:** Connects to a computer for recording and playback.
- **Bluetooth 5.0:** Wireless audio streaming from compatible devices.
- **Compact and Portable:** Lightweight design (3.3 pounds) with 5V USB power supply, ideal for mobile use.

5. SETUP GUIDE

5.1. Powering On the Mixer

The BOMGE 12F-W mixer is powered via a 5V USB connection. This allows for flexible power options, including a standard USB power adapter, a computer USB port, or a mobile power bank.

1. Connect the provided USB power cable to the "MP3/PC MODE SWITCH" USB socket on the rear of the mixer.
2. Connect the other end of the USB cable to a compatible 5V USB power source.
3. The mixer will power on automatically.

INTRODUCTION TO THE FUNCTION PANEL

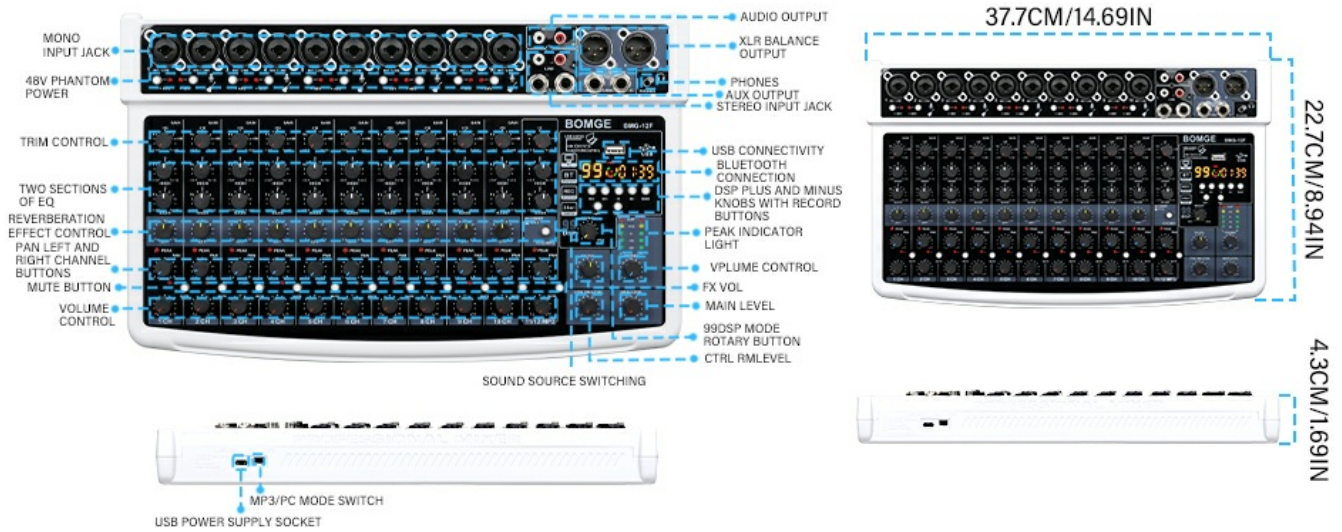


Figure 5.1: Rear view of the mixer indicating the USB power input socket.

5.2. Connecting Input Devices

The mixer supports various input devices, including microphones, musical instruments, and other audio sources.

48V PHANTOM POWER

Both condenser and wired microphones are supported



Figure 5.2: Diagram showing various compatible devices such as guitars, electronic keyboards, microphones, and headphones connected to the mixer.

1. **Microphones:** Connect XLR or 1/4" TRS cables from your microphones to the MIC/LINE input jacks (1-10). For condenser microphones, activate the +48V phantom power switch for the respective channel.
2. **Instruments:** Connect instruments like guitars or keyboards to the MIC/LINE input jacks (1-10) using 1/4" TRS cables.
3. **Line-Level Devices:** Use 6.35mm jack (L/R) stereo input or RCA (L/R) input for connecting line-level audio devices.

RANGE OF COMPATIBLE DEVICES



Figure 5.3: Close-up view of the mixer's input section, highlighting the +48V phantom power buttons for microphone inputs.

5.3. Connecting Output Devices

Connect your speakers, headphones, or recording devices to the mixer's output ports.

1. **Main Output:** Connect your main speakers or power amplifier to the XLR or RCA MAIN OUT (L/R) jacks.
2. **Headphones:** Plug your headphones into the 3.5mm PHONES jack for monitoring.

HEADPHONE MONITORING JACK

Support the use of different headphones for recording, monitoring or storage and playback



Figure 5.4: The mixer with headphones connected to the monitoring jack, illustrating its use for recording, monitoring, or playback.

6. OPERATING INSTRUCTIONS

6.1. Basic Mixing

1. Ensure all input devices are connected and powered on.
2. Set all channel GAIN controls to minimum and channel faders to zero before starting.
3. Gradually increase the GAIN control for each input channel until the PEAK indicator flashes only occasionally.
4. Adjust the channel faders to balance the levels of each input.
5. Use the EQ controls (HIGH, MID, LOW) to shape the tone of each channel as desired.
6. Adjust the PAN control to position the sound in the stereo field.
7. Slowly raise the MAIN LEVEL control to achieve the desired overall output volume.

6.2. Using DSP Effects

The mixer includes 99 built-in DSP effects to enhance your audio.

HIGH-QUALITY DIGITAL NEW FILMS

Background noise reduction can reach the best level, greatly improving the recording quality, equipped with 99DSP multiple modes to switch freely

1~3 ECHO
4~6 DELAY+ECHO
7~10 DELAY R(1-3)MID
11~16 PITCH+ECHO
17~19 DELAY+REV
20~22 RADIO VOICE
23~27 PITCH+DELAY
28~36 CHORUS(SLOW/FAST/MID)
37~39 FLANGE(SLOW/MID/FAST)
40~42 REVERSE REV(1-3)LONG
43~46 REV(1-4)
47~54 DELAY(1-8)
47~54 DELAY(1-8)
55 PLATE LARGE
56~57 CHURCH(SMALL/LARGE)
58~71 PITCH
72~75 DELAY+REV(1-4)
76~80 DISTORSTION(1-5)
81~82 PING-PONG DLY(SHORT/MID)
83~87 DELAY(1-5)+CHORUS
88~93 CHORUS(1-6)+REV
94~96 OVER DRIVER(1-3)
97~99 PING-PONG DLY(SHORT/MID)

01 → 99 DSP → 99

Figure 6.1: The DSP effects section of the mixer, showing the digital display and a list of available effects.

1. Use the DSP program selection knob to cycle through the 99 available effects. The selected effect number will be displayed on the screen.
2. Adjust the EFF (Effect Send) knob on each channel to send the desired amount of that channel's signal to the effects processor.
3. Use the FX VOL (Effect Volume) control to adjust the overall level of the applied effect.
4. Some effects may have adjustable parameters (e.g., delay time, reverb decay) which can be controlled via the DSP controls.

6.3. Bluetooth Connectivity

Connect your smartphone or other Bluetooth-enabled device to the mixer for wireless audio playback.

PHONE BLUETOOTH CONNECTION

Turn on the Bluetooth mode of the mobile phone, one-key connection, and stable signal transmission



Figure 6.2: Illustration of a successful Bluetooth connection between a smartphone and the BOMGE mixer.

1. Press the "BT" button on the mixer's control panel to activate Bluetooth mode. The display will show "BT".
2. On your mobile device, go to Bluetooth settings and search for available devices.
3. Select "BOMGE Mixer" (or similar name) from the list to pair.
4. Once connected, you can play audio from your device through the mixer. Use the mixer's controls to adjust the volume of the Bluetooth input.

6.4. USB Audio Interface / MP3 Playback

The USB port allows for connection to a computer for recording/playback or for playing MP3 files from a USB flash drive.

SUPPORTS MULTIPLE MODE INPUTS

Such as: MP3, U disk, SD card playback, enjoy music and recording channel playback at any time



Figure 6.3: The mixer connected to a laptop via USB, demonstrating its use for recording and playback, and also showing a USB flash drive connected.

1. **USB Flash Drive:** Insert a USB flash drive containing MP3 files into the USB port. The mixer will automatically detect and begin playing. Use the built-in controls (Play/Pause, Skip Tracks, Mode) to navigate.
2. **Computer Connection:** Connect the mixer to your computer via a USB cable. The mixer will be recognized as an audio interface. You can then use your preferred DAW (Digital Audio Workstation) software for recording or playback.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the surface of the mixer. Do not use liquid cleaners or aerosols.
- **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.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output	Power not connected Main level too low Channel fader too low Mute button engaged Incorrect cable connection	Ensure USB power is connected. Increase MAIN LEVEL knob. Increase individual channel fader. Check and disengage mute button. Verify all audio cables are correctly connected.
No sound from microphone	GAIN too low +48V phantom power off (for condenser mics) Microphone faulty	Increase GAIN control for the channel. Activate +48V phantom power for condenser microphones. Test microphone with another device.
Bluetooth connection issues	Bluetooth not enabled on mixer/device Device too far Interference	Ensure Bluetooth mode is active on both mixer and device. Move device closer to the mixer. Reduce other wireless interference.
Distorted audio	Input signal too high (clipping) Output level too high	Reduce GAIN control until PEAK indicator stops flashing frequently. Lower MAIN LEVEL or individual channel faders.

9. SPECIFICATIONS

Feature	Detail
Model	12F-W
Brand	BOMGE
Number of Channels	12
Inputs	10 x Mic/Line (XLR/TRS Combo), 1 x Stereo (6.35mm L/R), 1 x RCA (L/R), 1 x USB
Outputs	XLR (L/R), RCA (L/R), 3.5mm Headphone
Phantom Power	+48V (switchable per channel 1-10)
DSP Effects	99 Digital Effects
Connectivity	Bluetooth 5.0, USB Audio Interface
Power Supply	5V USB
Item Weight	3.3 pounds (1.5 kg)
Product Dimensions	7.87 x 7.28 x 1.57 inches (20 x 18.5 x 4 cm)

Feature	Detail
Country of Origin	China

10. WARRANTY AND SUPPORT

BOMGE products are designed and manufactured to the highest quality standards. For warranty information and technical support, please refer to the official BOMGE website or contact your local distributor. Please retain your proof of purchase for any warranty claims.

For further assistance, you may visit the BOMGE Store on Amazon:[BOMGE Music Studio](#)

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Details

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