BOMGE IEM-580

BOMGE IEM-580 UHF Wireless In-Ear Stage Monitor System

Model: IEM-580
Brand: BOMGE

Introduction and Overview

The BOMGE IEM-580 is a professional UHF wireless in-ear monitor system designed for various audio monitoring applications, including live stage performances, studio recording, lectures, and speeches. This system provides reliable and clear audio transmission, allowing performers and speakers to monitor their sound with freedom of movement.

Key features include a fixed UHF frequency for ease of use, an operating range of 140-160 feet in open space, and built-in limiter circuitry to prevent distortion. The system also incorporates dynamic expansion circuitry to enhance the signal-to-noise ratio, ensuring high-quality audio monitoring.

Figure 1: The BOMGE IEM-580 UHF Wireless In-Ear Monitor System, showing the main transmitter unit and two bodypack receivers.

What's in the Box

Upon unpacking, please verify that all components listed below are present and in good condition:

- 1 x UHF Wireless Transmitter
- 2 x Bodypack Receiver
- 2 x In-ear Earbuds
- 1 x Power Adapter
- 1 x Antenna
- 2 x 6.5mm to 6.35mm Cable

- 1 x User Manual

Figure 2: Visual representation of the product contents, including the main units and accessories.

Setup Instructions

Transmitter Connection

1. Connect the supplied antenna to the ANT port on the rear of the UHF wireless transmitter.
2. Connect the power adapter to the DC IN (12-18V) port on the rear of the transmitter and plug it into a power outlet.
3. Connect your audio source (e.g., mixer, audio interface) to the AF IN (L) and AF IN (R) input jacks on the rear of the transmitter using appropriate 6.35mm cables.
4. If desired, connect headphones to the 6.35mm PHONES jack on the front panel for direct monitoring.

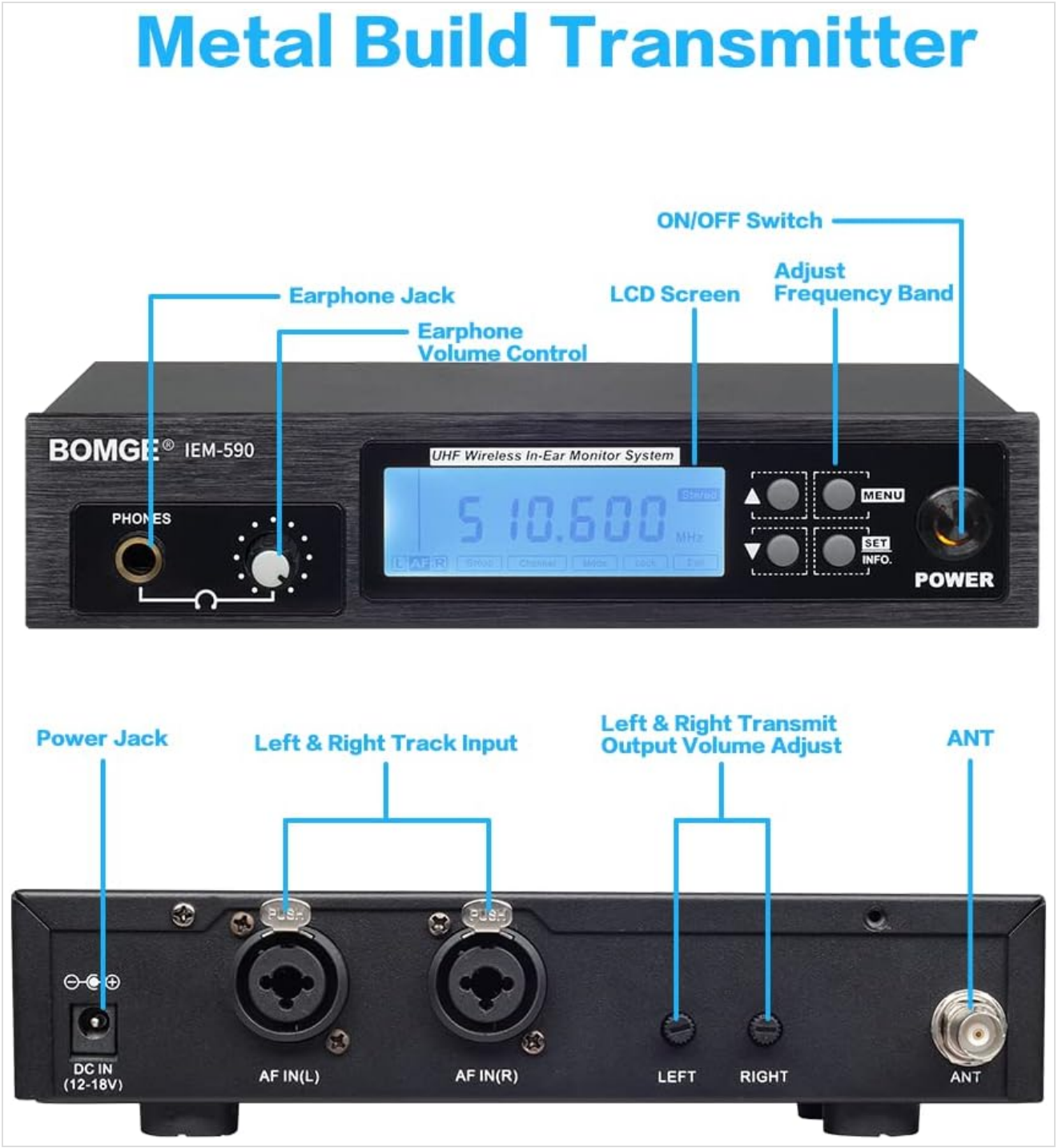


Figure 3: Detailed view of the transmitter unit, highlighting input/output ports and controls. Note: The image displays model IEM-590.

Bodypack Receiver Setup

1. Open the battery compartment on the bodypack receiver. Insert two AA batteries (not included), ensuring correct polarity.
2. Connect the in-ear earbuds to the 3.5mm headphone jack on the bodypack receiver.

Operating Instructions

Powering On and Frequency Setting

1. Press the POWER button on the transmitter to turn it on. The LCD screen will illuminate.

2. Turn on each bodypack receiver by pressing its power button.
3. To set the frequency band:
    - In the default interface, press the 'INFO' button on the transmitter to view the group and channel number.
    - Press 'SET' on the bodypack receiver.
    - Press the '↑' or '↓' keys to adjust the group number on the bodypack to match the transmitter.
    - After selecting the group, press 'SET' to switch to channel selection.
    - Press the '↑' or '↓' keys to adjust the channel number on the bodypack to match the transmitter.
    - Press the 'SET' key to confirm. The bodypack receiver will then be paired, and the RF light will turn green.

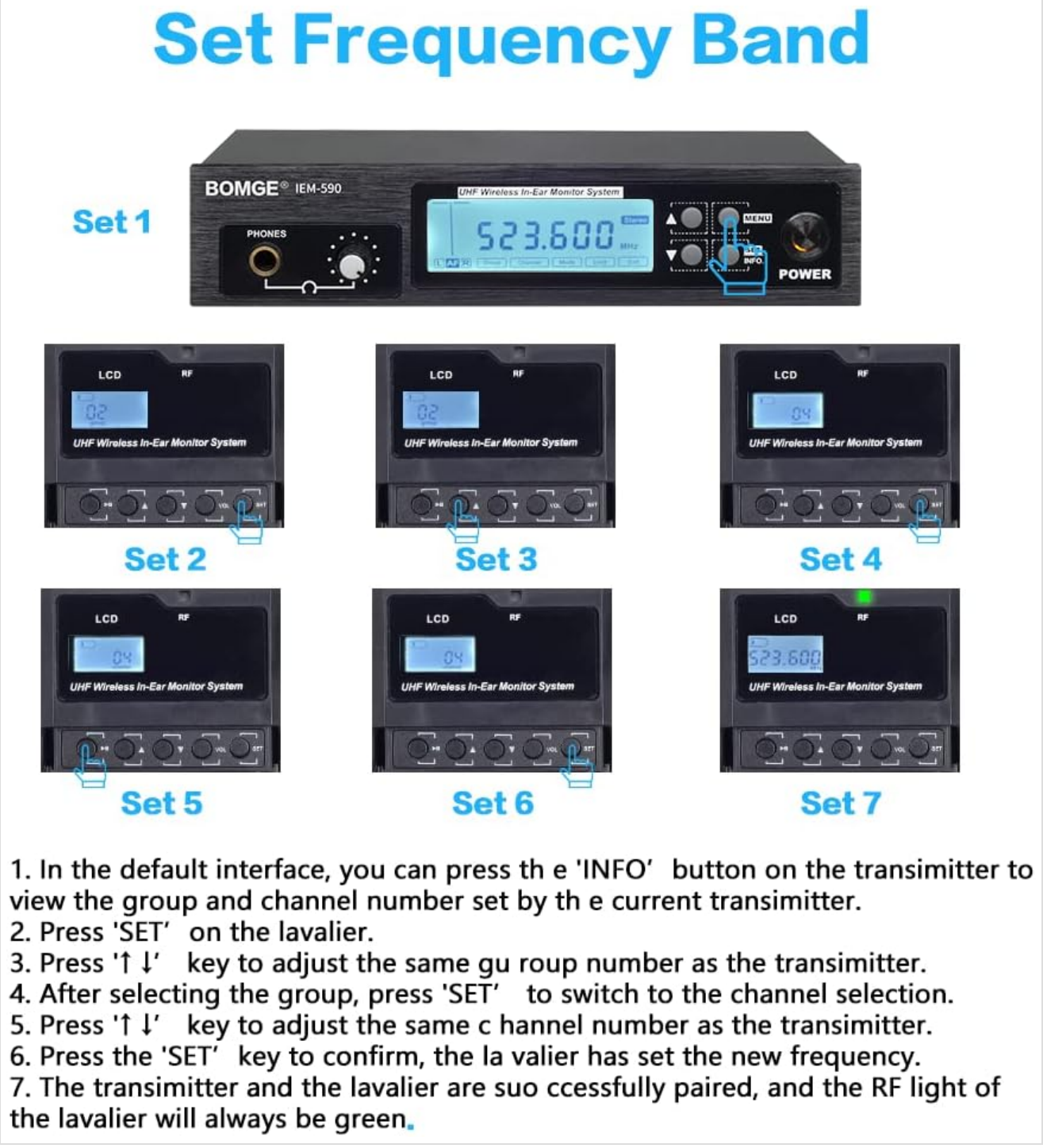


Figure 4: Guide for synchronizing the frequency between the transmitter and bodypack receivers. Note: The image displays model IEM-590.

Adjusting Volume and Monitoring

- Use the volume knob on the bodypack receiver to adjust the monitoring level to a comfortable listening volume.

- The RF signal indicator on the bodypack will illuminate when a stable signal is received from the transmitter.
- The system operates on UHF frequencies, providing real-time monitoring and signal stability.

Figure 5: Bodypack receiver controls, including volume adjustment and signal indicators.

Figure 6: Explanation of UHF technology benefits for real-time monitoring and signal stability.

The system is designed to filter out up to 95% of noise interference, providing a clear audio experience.

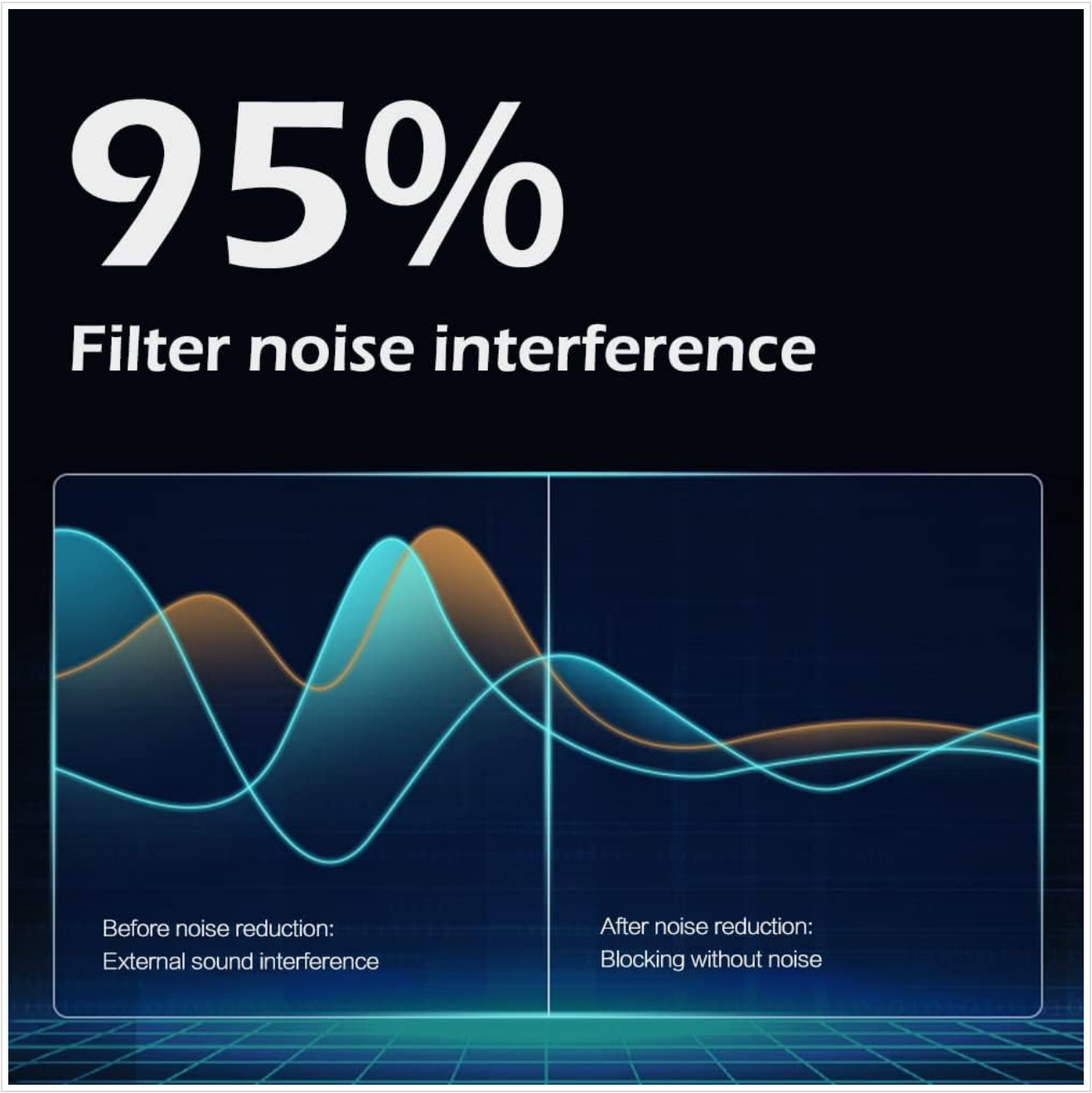


Figure 7: Visual representation of the system's noise reduction capabilities.

Maintenance

Battery Replacement

The bodypack receivers require two AA batteries for operation. When the low power indicator illuminates, replace the batteries promptly to ensure uninterrupted performance. Always use fresh, high-quality AA batteries.

Cleaning

Wipe the surfaces of the transmitter and bodypack receivers with a soft, dry cloth. Do not use liquid cleaners or abrasive materials, as these can damage the finish or internal components. Keep the units free from dust and moisture.

Troubleshooting

Problem	Possible Cause	Solution
No sound or intermittent audio	Low or dead batteries in bodypack. Transmitter not powered on. Incorrect frequency pairing. Out of range or signal obstruction. Audio cables not properly connected.	Replace bodypack batteries. Ensure transmitter is powered on. Re-pair transmitter and receiver frequencies as per "Operating Instructions". Move closer to the transmitter; remove obstacles like thick walls, glass, or metal. Check all audio cable connections.
Static or excessive noise	Interference from other wireless devices. Weak signal. Incorrect gain staging.	Try a different frequency channel if available, or move away from other wireless equipment. Ensure line of sight between transmitter and receiver; reduce distance. Adjust input levels on the transmitter and output levels on your audio source to avoid clipping.
Short operating range	Physical obstructions. Environmental interference.	Ensure clear line of sight between transmitter and receiver. Avoid placing units behind large metal objects, thick walls, or glass. Minimize other wireless activity in the area.

Specifications

Feature	Detail
Model Name	IEM
Connectivity Technology	Wireless
Wireless Communication Technology	RF
Headphones Jack	6.35 mm Jack (Transmitter)
Bodypack Power Source	2 x AA Batteries (not included)
Operating Range	140-160 ft. (line of sight)
Material	Metal (Transmitter)
Item Weight (System)	3.31 pounds (approx. 1500 grams)
Product Dimensions	8.27 x 3.74 x 1.77 inches
Manufacturer	BOMGE

Feature	Detail
UPC	768497875043

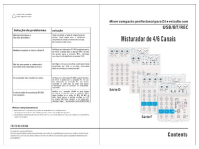
Note: Specifications are subject to change without notice.

Warranty and Support

For information regarding warranty coverage, technical support, or service, please contact BOMGE customer service directly. Details can typically be found on the official BOMGE website or through the retailer where the product was purchased.

You can also visit the official BOMGE store for more information and support resources:BOMGE Official Store

Related Documents

	BOMGE Dual Wireless Microphone System User Manual User manual for the BOMGE Dual Wireless Microphone System, detailing setup, operation, features, and specifications for headset, stand, and lavalier microphone configurations.
BOMGE 	BOMGE BG250U UHF Wireless Microphone System User Instructions User instructions and FCC compliance information for the BOMGE BG250U UHF Wireless Microphone system, detailing handheld transmitter operation, battery replacement, and interference guidelines.
	Manual do Usuário: Mixer de Estúdio e Gravação BOMGE 4/6 Canais Guia completo do mixer BOMGE de 4/6 canais para DJ e estúdio. Aprenda sobre conexão, operação, solução de problemas e especificações para gravação, streaming e performances ao vivo.
	BOMGE BMG22 USB Audio Interface Quick Start Guide A concise guide to setting up and operating the BOMGE BMG22, an audiophile 2x2 USB audio interface with 24-bit/192 kHz resolution, featuring MIDAS preamps, phantom power, direct monitoring, and loopback functionality for recording, mixing, and podcasting.