

Bolymic BL-8800SB-8HS32

Bolymic 8800 8-Channel Wireless Headset Microphone System User Manual

Model: BL-8800SB-8HS32

[Overview](#) [Setup](#) [Introduction](#) [Safety Information](#) [Package Contents](#) [System](#)
[Operating](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Bolymic 8800 8-Channel Wireless Headset Microphone System. This system is designed for professional audio applications in various environments such as theaters, churches, schools, and stage performances, offering reliable wireless audio transmission with multiple selectable channels.

2. SAFETY INFORMATION

- **Power Source:** Use only the provided AC-DC adapter. Ensure the voltage matches your local power supply.
- **Water and Moisture:** Do not expose the system to rain or moisture. Avoid placing liquid-filled objects on the unit.
- **Heat Sources:** Keep the unit away from heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
- **Ventilation:** Ensure proper ventilation. Do not block any ventilation openings.
- **Cleaning:** Clean only with a dry cloth.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Batteries:** Dispose of used batteries responsibly. Do not mix old and new batteries or different types of batteries.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- One (1) Eight-channel UHF Receiver

- Eight (8) Beige Headset Microphones
- Eight (8) Belt-pack Transmitters (AA batteries not included)
- Eight (8) Receiver Antennas
- One (1) Cabinet Installation L-type Frame (for rack mounting)
- One (1) 1/4" Audio Cable
- One (1) AC-DC Power Adapter
- One (1) User Manual

4. SYSTEM OVERVIEW

4.1. Receiver Unit

The receiver unit is the central component of the wireless system, designed to receive audio signals from up to eight belt-pack transmitters simultaneously. It features individual volume controls for each channel, AF & RF signal indicators, and multiple output options.



Figure 1: Receiver Rear Panel Connections

This image displays the rear panel of the Bolyptic 8800 receiver. It shows eight balanced XLR individual outputs (labeled A, B, C, D, and so on), a 6.35mm (1/4") mixed output, antenna connections (Antenna A, B, C, D), and the power input. Each XLR output corresponds to a specific channel for independent audio routing.

- **Backlit LCD Display:** Shows RF level, AF level, Channel Frequency, and mute status.
- **Individual Volume Controls:** Adjust output level for each of the 8 channels.
- **Outputs:** Eight (8) XLR individual outputs and one (1) 1/4" Mixed output.
- **Rack Mountable:** Designed to fit a standard 19" equipment rack.

4.2. Belt-pack Transmitter and Headset Microphone

Each belt-pack transmitter is compact and powered by AA batteries, designed to be worn by the user. It connects to a headset microphone and transmits the audio signal wirelessly to the receiver. The headset microphone provides clear vocal pickup for hands-free operation.



Figure 2: Belt-pack Transmitter Components

This image illustrates the Bolymic belt-pack transmitter. Key components visible include the battery cover, a display screen, the headset input jack, an ON/OFF power switch, and the antenna. The inset shows a close-up of the headset input connection.

- **Power:** Requires AA batteries (not included).
- **Headset Input:** Secure connection for the headset microphone.
- **Display:** Shows channel information and battery status.
- **Selectable Frequencies:** 100 selectable frequencies per channel for interference avoidance.

5. SETUP

5.1. Receiver Installation

1. **Placement:** Position the receiver in a central location, away from large metal objects or other wireless devices that may cause interference. For rack mounting, use the provided L-type frame to secure it in a standard 19" rack.
2. **Antennas:** Screw the eight receiver antennas onto their respective connectors on the rear panel of the receiver (refer to Figure 1). Ensure they are securely tightened and positioned vertically for optimal signal reception.
3. **Power Connection:** Connect the AC-DC power adapter to the receiver's power input and then plug it into a suitable power outlet. **Do not power on the unit yet.**
4. **Audio Output:**
 - For individual channel output, connect XLR cables from the receiver's individual XLR outputs (A, B, C, D, etc.) to your mixer or audio interface.
 - For a mixed output of all channels, connect the 1/4" audio cable from the receiver's 1/4" Mixed output to your mixer or audio interface.

5.2. Belt-pack Transmitter and Headset Setup

1. **Battery Installation:** Open the battery cover on each belt-pack transmitter (refer to Figure 2). Insert two (2) fresh AA batteries, observing the correct polarity (+/-). Close the battery cover securely.
2. **Headset Connection:** Connect each headset microphone to its corresponding belt-pack transmitter's headset input jack. Ensure the connection is firm.
3. **Wearing the System:** Secure the belt-pack transmitter to the user's belt or clothing. Position the headset microphone comfortably on the user's head, with the microphone element positioned near the mouth for optimal

sound capture.

5.3. Frequency Synchronization

The system features automatic transmitter setup for easy synchronization.

1. Power on the receiver unit.
2. Select the desired channel on the receiver using the channel selection buttons. The LCD display will show the selected frequency.
3. Power on the belt-pack transmitter.
4. Place the belt-pack transmitter close to the receiver's IR sync window (usually located on the front panel, though not explicitly shown in images).
5. Initiate the synchronization process on the receiver (refer to the receiver's front panel controls for the specific sync button or menu option). The receiver will send the frequency information to the transmitter.
6. Once synchronized, the transmitter's display should show the same frequency as the receiver, and the RF indicator on the receiver for that channel should illuminate, indicating a successful wireless link.
7. Repeat this process for all eight channels/transmitters.

6. OPERATING INSTRUCTIONS

6.1. Powering On/Off

- **Receiver:** Use the power button on the front panel to turn the receiver ON or OFF.
- **Transmitter:** Use the ON/OFF switch on the belt-pack transmitter (refer to Figure 2).

6.2. Volume Control

Adjust the individual volume knobs on the receiver's front panel to control the output level of each microphone channel. Start with a low volume and gradually increase it to avoid feedback or distortion.

6.3. Channel Selection and Interference Avoidance

The system offers 100 selectable frequencies per channel. If you experience interference (static, dropouts, or unwanted signals), you can manually select a different frequency for the affected channel:

1. On the receiver, navigate to the affected channel.
2. Use the channel selection buttons to cycle through available frequencies until a clear one is found (monitor the RF signal indicator for stability).
3. Once a new frequency is selected on the receiver, re-synchronize the corresponding belt-pack transmitter as described in Section 5.3.

6.4. Operating Range

The typical operating range is up to 80 meters (approximately 260 feet) under optimal conditions. Obstacles such as walls, metal structures, and other wireless devices can reduce this range. Maintain a clear line of sight between the transmitters and the receiver antennas whenever possible.

7. MAINTENANCE

7.1. Cleaning

- Wipe the receiver and transmitters with a soft, dry cloth.
- Do not use liquid cleaners, aerosols, or solvents, as these may damage the finish or internal components.
- For headset microphones, gently clean the foam windscreen if removable.

7.2. Battery Replacement

Replace AA batteries in the belt-pack transmitters when the low battery indicator appears on the transmitter's display or when audio quality degrades. Always use fresh, high-quality alkaline batteries for optimal performance and battery life (approximately 12 hours).

7.3. Storage

When not in use for extended periods, remove batteries from the belt-pack transmitters to prevent leakage. Store the system in a cool, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from a microphone.	Transmitter or receiver not powered on. Low or dead batteries in transmitter. Microphone not connected to transmitter. Incorrect frequency synchronization. Receiver volume turned down. Mixer/audio interface input issues.	Ensure both units are powered on. Replace batteries in the belt-pack transmitter. Check headset connection to belt-pack. Re-synchronize transmitter and receiver (Section 5.3). Increase individual channel volume on receiver. Verify connections and settings on your mixer/audio interface.
Static, interference, or dropouts.	Interference from other wireless devices. Operating outside of range. Obstructions between transmitter and receiver. Antennas not properly positioned.	Select a different frequency for the affected channel (Section 6.3). Reduce distance between transmitter and receiver. Ensure clear line of sight. Check antenna connections and position them vertically.
Low audio level or distorted sound.	Low battery in transmitter. Microphone placement. Receiver volume too high (distortion) or too low.	Replace batteries. Adjust headset microphone closer to the mouth. Adjust receiver's individual channel volume.

9. SPECIFICATIONS

- **Model:** BL-8800SB-8HS32
- **Channels:** 8 (Eight)
- **Selectable Frequencies:** 100 per channel
- **Frequency Range:** UHF 530-580MHz
- **Frequency Response:** 50Hz~18KHz
- **Operating Range:** Up to 80 meters (approx. 260 feet)

- **Outputs:** 8x XLR Individual Outputs, 1x 1/4" Mixed Output
- **Transmitter Power:** 2x AA batteries (12 hours battery life)
- **Features:** Backlit LCD display, Tone Lock Squelch, Automatic transmitter setup, Rack mountable
- **Item Weight:** 26.4 pounds (total package)
- **Package Dimensions:** 21.65 x 17.72 x 11.81 inches

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your proof of purchase for any warranty claims.

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