CAD Audio GXLIEM4

CAD Audio GXLIEM4 Frequency Agile Wireless In Ear Monitor System

QUAD MIX SYSTEM USER MANUAL

1. Setup Guide

This section provides instructions for the initial setup of your CAD Audio GXLIEM4 system.

1.1 Unpacking and Initial Inspection

Carefully unpack all components and verify that all items are present and undamaged. The system includes:

- GXLIEM4 Quad Mix Transmitter Base Station
- 4 GXLIEM Bodypack Receivers
- 4 MEB1 High-Performance Earbuds
- Rack Mount Ears and Hardware
- Antenna Relocation Kit
- Power Adapter

Figure 1.1: Overview of the CAD Audio GXLIEM4 Quad Mix System components, including the transmitter, four bodypack receivers, four sets of MEB1 earbuds, antennas, and power supply.

1.2 Transmitter Installation

1. **Rack Mounting:** Attach the included rack mount ears to the sides of the GXLIEM4 transmitter using the provided screws. Secure the transmitter into a standard 19-inch equipment rack.
2. **Antenna Connection:** Connect the two included antennas to the BNC connectors labeled 'ANT A+B' and 'ANT C+D' on the rear panel of the transmitter. For optimal reception, ensure antennas are positioned vertically and unobstructed. An antenna relocation kit is provided for remote antenna placement if needed.
3. **Audio Input:** Connect your audio mixer's auxiliary outputs to the corresponding input jacks (Input A, Input B, Input C, Input D) on the rear of the GXLIEM4 transmitter. Each input corresponds to a discrete mix for a bodypack receiver.
4. **Power Connection:** Connect the power adapter to the 'DC INPUT 13-18V/300mA' jack on the rear panel and plug it into a suitable power outlet.

Figure 1.2: The rear panel of the GXLIEM4 transmitter, illustrating the BNC antenna connectors, four audio input jacks (A,

B, C, D), and the DC power input.

1.3 Bodypack Receiver Setup

1. **Battery Installation:** Open the battery compartment on the back of each bodypack receiver. Insert two AA batteries, observing the correct polarity (+/-). Close the compartment securely. The bodypack receivers are designed for standard AA alkaline batteries.
2. **Earbud Connection:** Plug the MEB1 earbuds into the 3.5mm headphone jack on the top of the bodypack receiver. Ensure a secure connection.

Figure 1.3: A CAD Audio bodypack receiver with its battery compartment open, showing the proper orientation for inserting two AA batteries.

1.4 System Overview Diagram

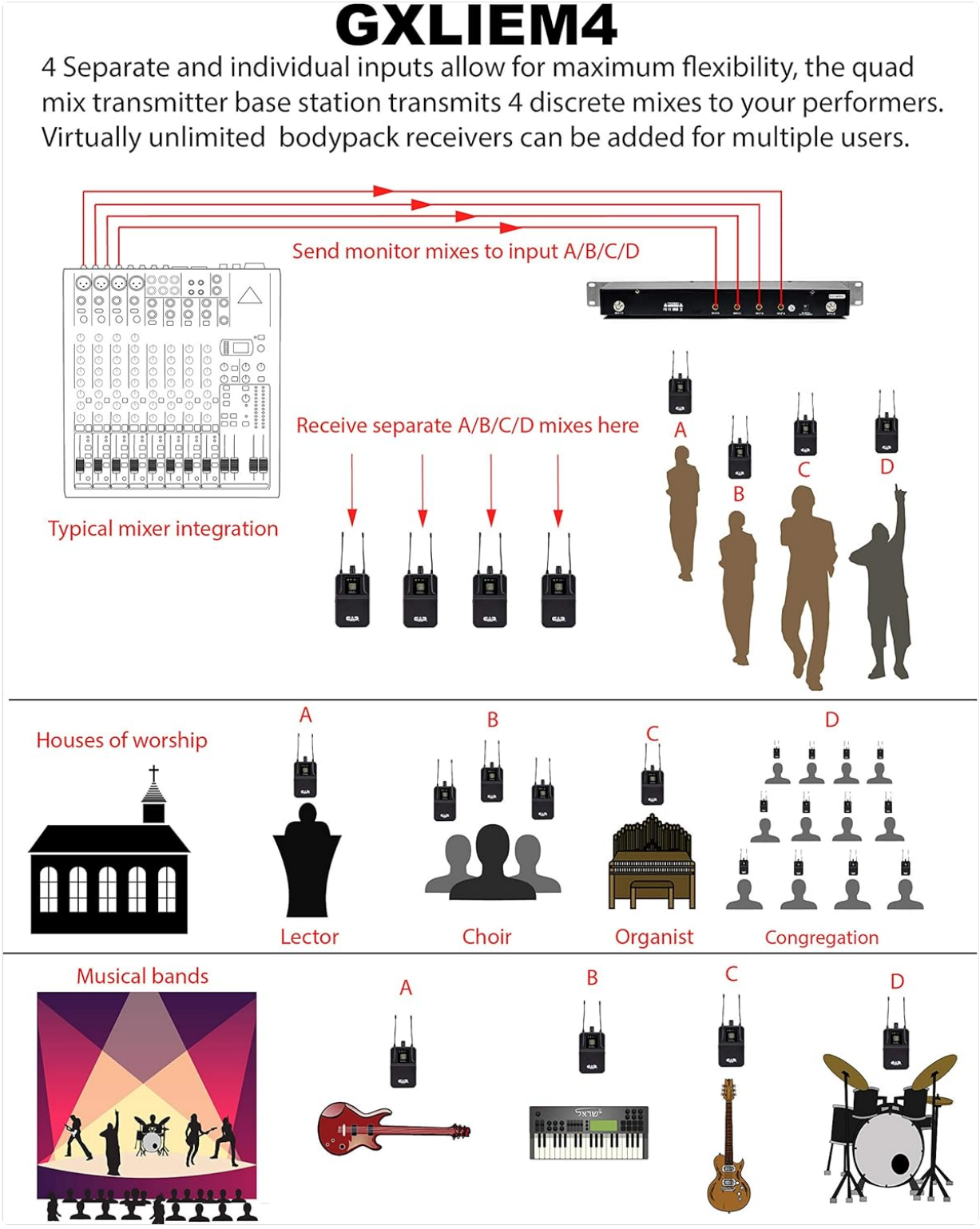


Figure 1.4: A system diagram illustrating how the GXLIEM4 transmitter integrates with a typical audio mixer to provide four discrete monitor mixes to multiple bodypack receivers for performers in various settings like houses of worship or musical bands.

2. Operating Instructions

This section details the operational procedures for your GXLIEM4 system.

2.1 Powering On/Off

- **Transmitter:** Flip the power switch on the front right panel of the GXLIEM4 transmitter to the 'ON' position. The display for each channel will illuminate.
- **Bodypack Receiver:** Rotate the volume knob on the top of the bodypack receiver clockwise until the

display illuminates. Continue rotating to adjust the volume.

Figure 2.1: A close-up view of a single channel on the GXLIEM4 transmitter's front panel, showing the power switch, channel display, and control buttons.

2.2 Frequency Selection and Synchronization

The GXLIEM4 system operates in the 900 MHz band, offering frequency agile performance to avoid interference.

1. **Selecting a Frequency:** On the desired transmitter channel, use the 'DOWN' and 'UP' buttons to navigate through available frequencies. Observe the 'AF' (Audio Frequency) and 'RF' (Radio Frequency) indicators. A clear channel will show stable RF.
2. **IR Synchronization:** Once a frequency is selected on the transmitter, align the IR sensor on the bodypack receiver (located near the battery compartment) with the 'IR' window on the corresponding transmitter channel. Press and hold the 'IR' button on the transmitter until the bodypack receiver's display updates with the new frequency. This synchronizes the bodypack to the transmitter channel.

2.3 Adjusting Mixes and Volume

- **Transmitter Mix Level:** The audio input level for each channel is controlled by your external audio mixer. Ensure appropriate signal levels are sent to the GXLIEM4 inputs.

- **Bodypack Receiver Volume:** Use the 'VOL' knob on the bodypack receiver to adjust the personal monitoring volume to a comfortable listening level.

2.4 Earbud Usage

Insert the MEB1 earbuds comfortably into your ears. Proper fit is crucial for optimal sound isolation and bass response. Experiment with different ear tip sizes if provided to find the best seal.

3. Maintenance

Regular maintenance ensures the longevity and optimal performance of your GXLIEM4 system.

3.1 Cleaning

- **Transmitter and Receivers:** Wipe surfaces with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Earbuds:** Clean ear tips regularly with a damp cloth. Ensure they are completely dry before reattaching.

3.2 Battery Replacement

The bodypack receivers provide over 10 hours of battery life with fresh AA alkaline batteries. Replace batteries when the low battery indicator appears on the bodypack display to prevent unexpected power loss during use.

3.3 Storage

When not in use, store the system in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries from bodypack receivers if storing for extended periods to prevent leakage.

4. Troubleshooting

This section addresses common issues you might encounter with your GXLIEM4 system.

Problem	Possible Cause	Solution
No audio from bodypack receiver	Low/dead batteries; incorrect frequency; disconnected earbuds; transmitter not powered on; no audio input to transmitter.	Replace batteries; resynchronize frequency; check earbud connection; ensure transmitter is powered; verify audio input from mixer.
Interference or dropouts	Conflicting frequencies; excessive distance from transmitter; obstructions; low battery.	Scan for a clear frequency and resync; reduce distance to transmitter; ensure line of sight; replace bodypack batteries. The 900 MHz band is generally less susceptible to TV/FCC interference.
Short battery life on bodypack	Old or low-quality batteries; high volume settings.	Use fresh, high-quality alkaline AA batteries. Reduce volume if possible.

Problem	Possible Cause	Solution
Bodypack not syncing with transmitter	IR sensors not aligned; IR button not pressed long enough; transmitter channel not active.	Ensure direct line of sight between IR sensors; press and hold IR button until sync is confirmed; verify transmitter channel is powered and active.

5. Technical Specifications

Key technical specifications for the CAD Audio GXLIEM4 system:

- **Model:** GXLIEM4
- **Frequency Range:** 902 to 928 MHz
- **Number of Mixes:** 4 discrete mixes
- **Transmitter Type:** Rack-mountable, all-metal chassis
- **Bodypack Receiver Battery Life:** >10 hours (with AA alkaline batteries)
- **Earbuds:** MEB1 High-Performance Earbuds included
- **Connectivity Technology:** Wireless (RF)
- **Audio Driver Type (Earbuds):** Balanced Armature Driver
- **Product Dimensions:** 16 x 21 x 3 inches (Transmitter)
- **Item Weight:** 7.25 pounds (Total system)

6. Warranty and Support

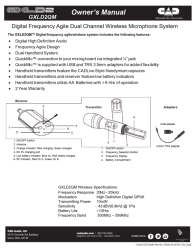
6.1 Warranty Information

CAD Audio products are designed for reliability and performance. This product is covered by a limited warranty against defects in materials and workmanship. Please refer to the official CAD Audio website or your purchase documentation for specific warranty terms and conditions, including duration and coverage details.

6.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact CAD Audio customer support. Contact information can typically be found on the official CAD Audio website or in your product packaging.

Related Documents - GXLIEM4

	[CAD AUDIO MXU2 Multipurpose 2-Channel Analog Mixer with USB Interface User Guide] This user guide provides comprehensive information on the CAD AUDIO MXU2, a versatile 2-channel analog mixer featuring a built-in USB audio interface. Learn about its features, controls, connectivity, computer setup, troubleshooting, and warranty for live performance, broadcasting, podcasting, and home recording applications.
	[CAD Audio StagePass WX1600 Wireless Microphone System Manual] Explore the features and setup of the CAD Audio StagePass WX1600 Wireless Microphone System. This guide covers UHF agility, diversity operation, Scan-Link™ technology, and transmitter specifications for reliable audio performance.
	[CAD Audio WX1000HH 100 Channel UHF Wireless Handheld Microphone System User Guide] Comprehensive user guide for the CAD Audio WX1000HH 100 Channel UHF Wireless Handheld Microphone System, detailing features, operation, specifications, and regulatory compliance for optimal live performance.
	[CAD Audio Sessions MH510 Headphones - Professional Audio Experience] Discover the CAD Audio Sessions MH510 headphones, designed for professional audio performance in studio, live, and playback environments. Featuring a wide frequency response, high SPL, and comfortable design, these headphones deliver an exceptional listening experience. Available in multiple colors and configurations.
	[CAD Audio GXLD2QM Digital Frequency Agile Dual Channel Wireless Microphone System Owner's Manual] Comprehensive owner's manual for the CAD Audio GXLD2QM Digital Frequency Agile Dual Channel Wireless Microphone System, detailing features, setup, operation, specifications, and warranty information.
	[CAD Audio WX1000HH 100 Channel UHF Wireless Handheld Microphone System User Guide] User guide for the CAD Audio WX1000HH, a 100-channel UHF wireless handheld microphone system. Features frequency agility, auto-scan, IR sync, and durable all-metal construction for live performers.