CAD GXLIEM Wireless In-Ear Monitor System User Guide

GXLIEM
Wireless In-Ear Monitor System
Manual and Quick Start-up Guide

The GXLIEM Wireless IEM System is available in 3 configurations. A Single Mix transmitter, Dual Mix transmitter, and Quad Mix transmitter base station that transmits discrete mixes to your performers. With near-infinite bodypack receiver monitoring, this solution is the most flexible in the industry – useful when setting up multiple

mixes with a high bodypack receiver count. The systems' Frequency Agile design aids in the assurance of a clean, clear, channel plan. In addition, the bodypack receiver has a high contrast display, featuring a battery life indicator. The bodypack receiver is supplied with MEB1 high-performance earbuds. The robust, rack-mountable, all-metal transmitter is supplied with rack ears and a half-wave antenna. Systems are supplied with equal quantity bodypack receivers to transmitters.

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Contents

Introduction

Enjoy the easy and exciting performance that the GXLIEM™
Wireless In-Ear Monitor system provides for your next performance.
CAD Audio has been creating valued products since 1931 and prides itself on developing and supporting the live performer. Our concept was straightforward. Develop a high-value wireless IEM System that can cope with today's challenging RF environment and deliver superior
audio quality.

The GXLIEM Wireless In-Ear Monitor System features:

- Available as a Single Mix (GXLIEM), Dual Mix (GXLIEM2) or Quad Mix (GXLIEM4) Transmitter Base Station System
- 16 Channel Frequency Agile performance
- High Dynamic Range for outstanding fidelity
- High Contrast LCD Display
- Battery Life Indicator on Bodypack Receiver
- Operates in 900 MHz bands, free from TV and FCC regulatory issues
- Advanced dipole antenna technology on the bodypack receiver for an increased operating distance
- All-Metal Transmitter Chassis for shielded operation, 1/2U or 1U.
- AA Battery Life of >10Hrs of operation
- 2-YearWarranty

System Components

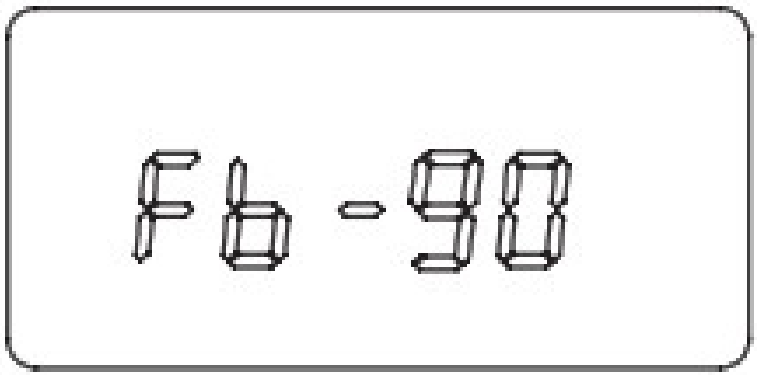
All systems include:

- Transmitter
- 1/4″ (6.35mm) audio cable (1pc/2pcs /4pcs)

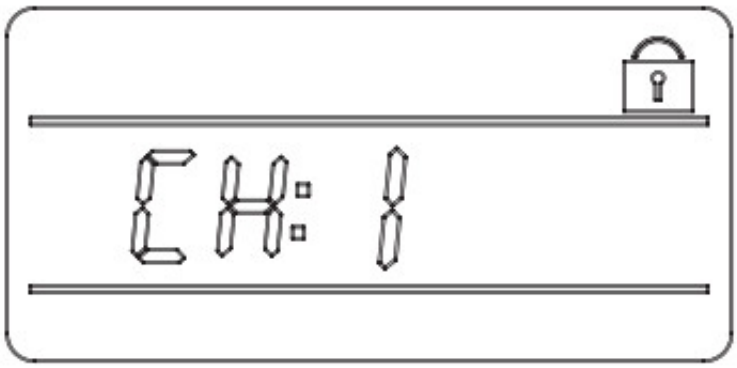
- BNC antenna (1pc / 2pcs)
- Power supply
- Bodypack Receiver (1pc / 2pcs /4pcs)
- Earbuds (1pc /2pcs/4pcs)
- Rack ears
- Antenna relocation cable
- User guide

Operating Instructions/System Setup

1. Apply power and press the power switch. The following screen appears at power-up.
   Fb = Frequency Band
   90 = 902 – 928MHz

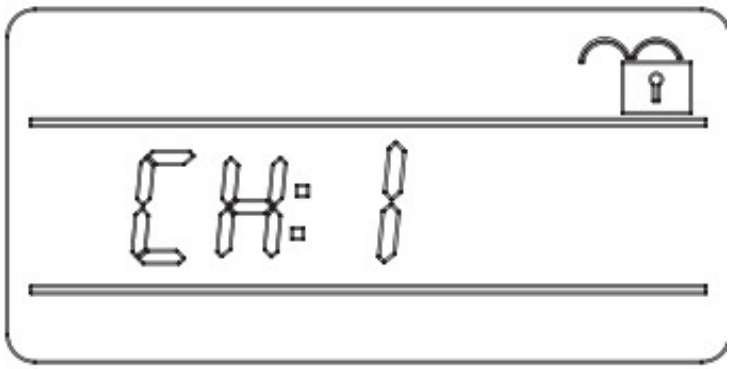


2. Default display shows the current transmitting channel.



Setting the transmitter frequency

3. Channel adjustment. A long press of the UP and DOWN button unlocks channel adjustment.
   When the channel numbers are flashing, press the UP or DOWN button to select a channel.

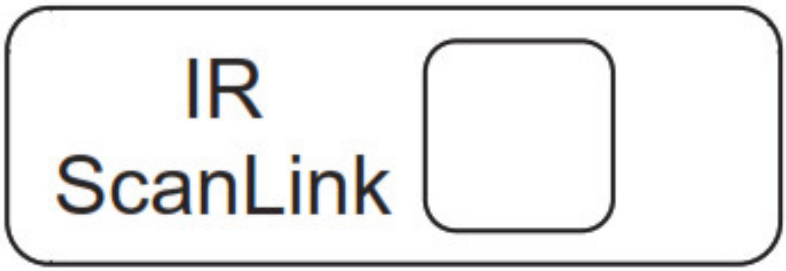


Setting the bodypack receiver frequency

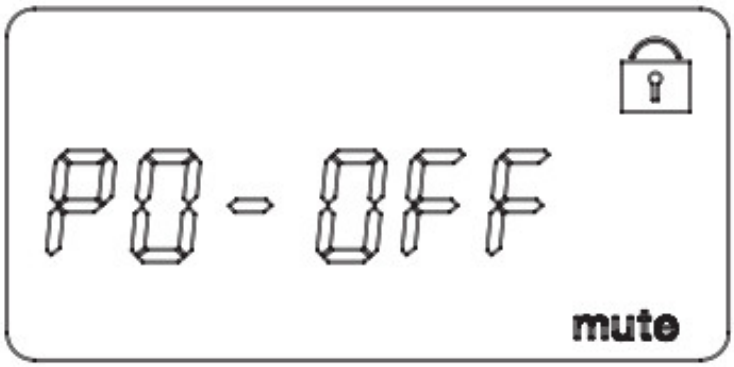
4. ScanLink™ is enabled by pressing the DOWN and UP buttons simultaneously for one second. Hold the

receiver ScanLink interface

towards the flashing LED to set receiver frequency.



Should you need to temporarily turn off the transmitter

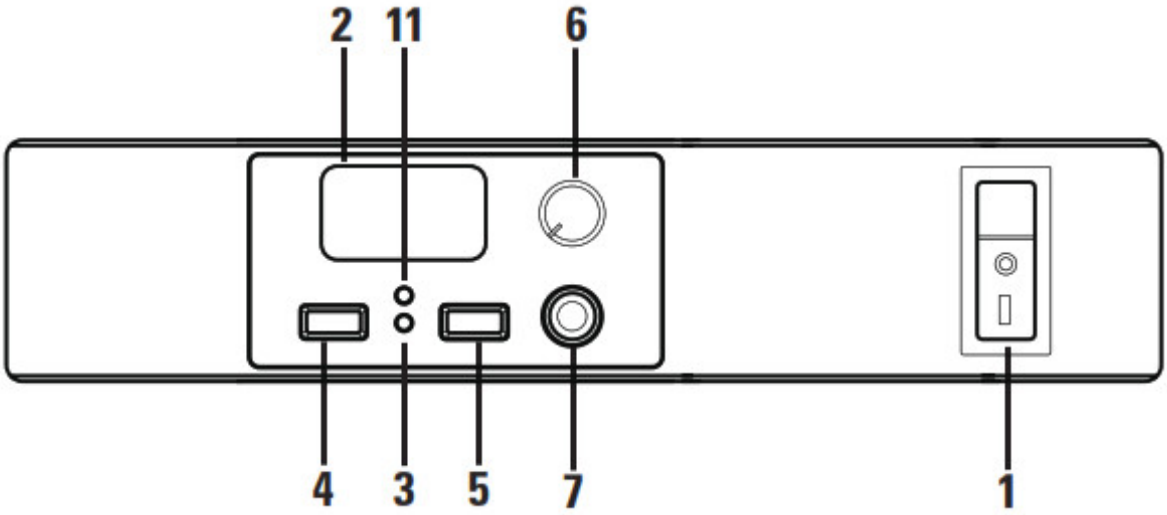


Transmitter power enables/disable.
Transmitter power can be temporarily disabled by holding the DOWN and UP buttons for more than 3 seconds until the screen to the right appears. To enable, hold both the DOWN and UP buttons at the same time until the default interface appears.

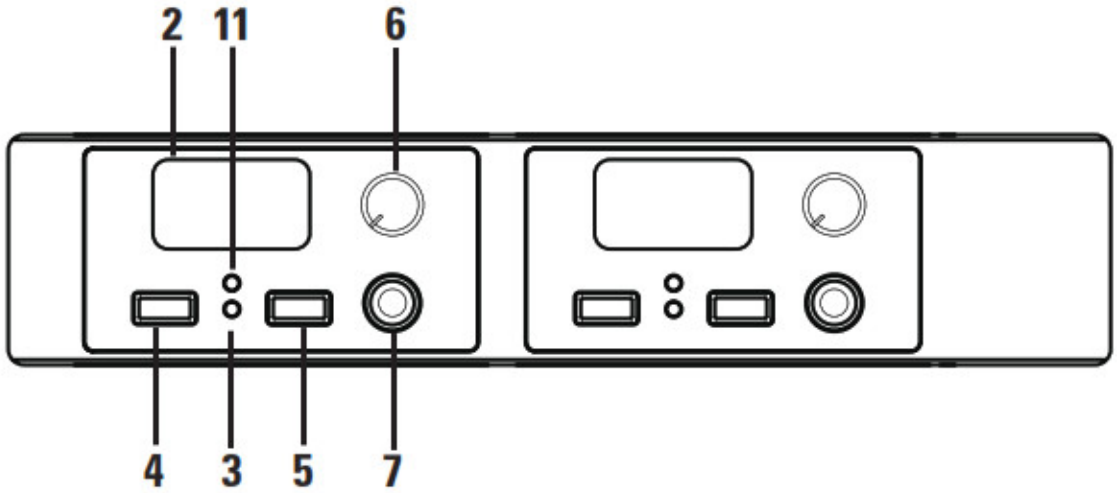
Transmitter GXLIEM/GXLIEM2/GXLIEM4

1. Power switch
2. LCD display
3. IR Node
4. Channel down button
5. Channel up button
6. Volume control. Adjust the headphone monitor volume.
7. Headphone Jack. 1/4″ (6.35mm) headphone monitor jack
8. Power jack
9. 1/4″ (6.35mm) audio input jack. Connect to audio sources, such as mixer monitor send.
10. BNC antenna connection
11. Audio signal level indicator

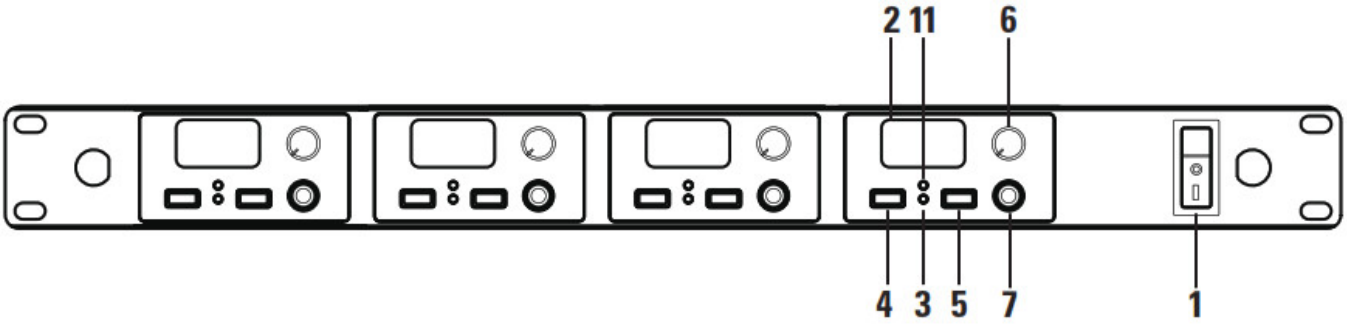
Single-channel front view



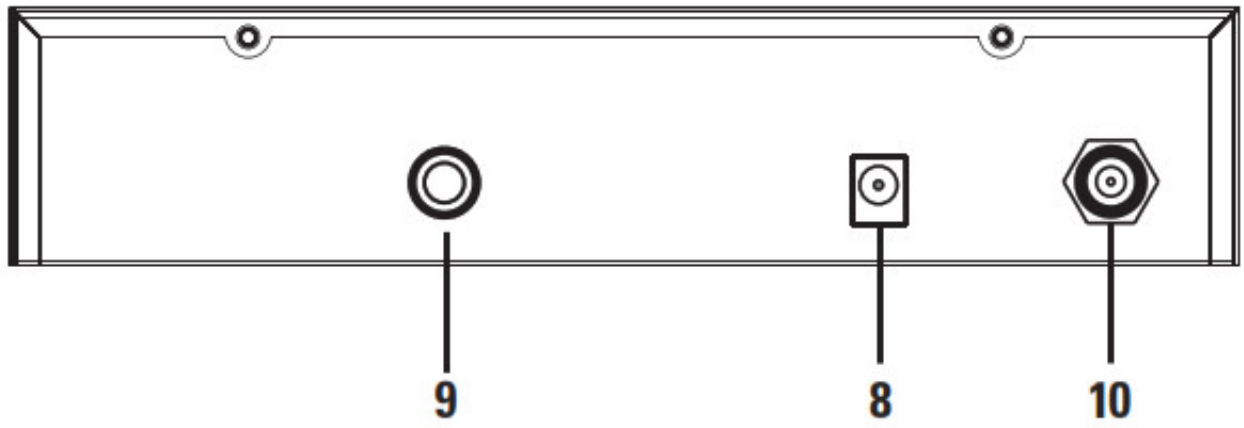
Dual channel front view



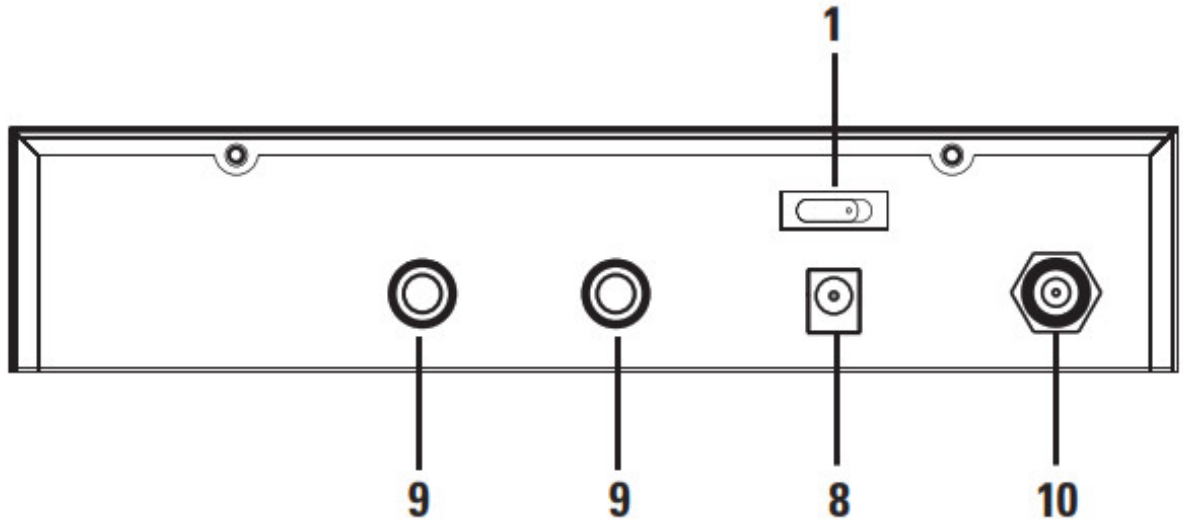
Quad-channel front view



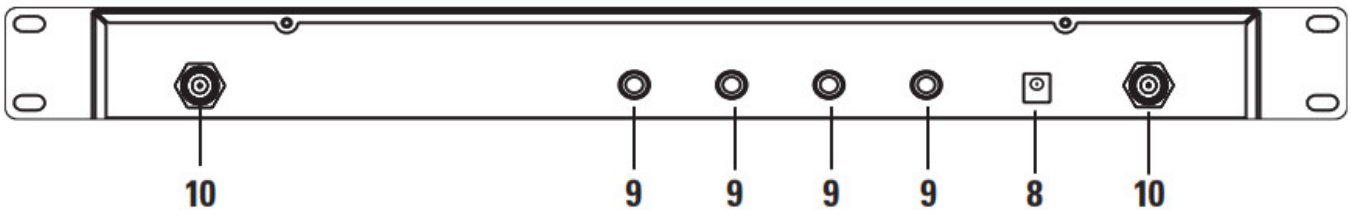
Single-channel rear view



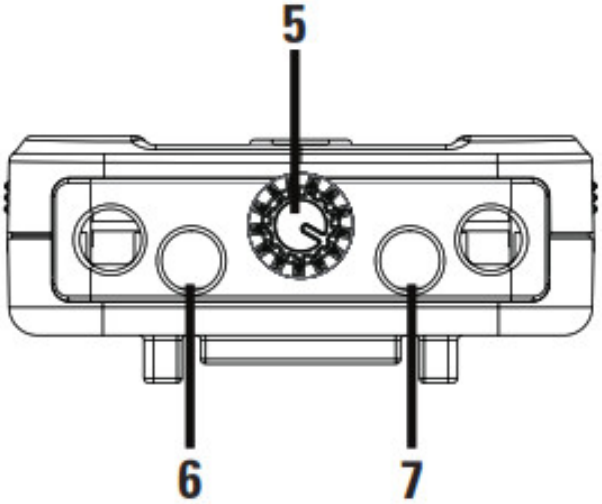
Dual-channel rear view

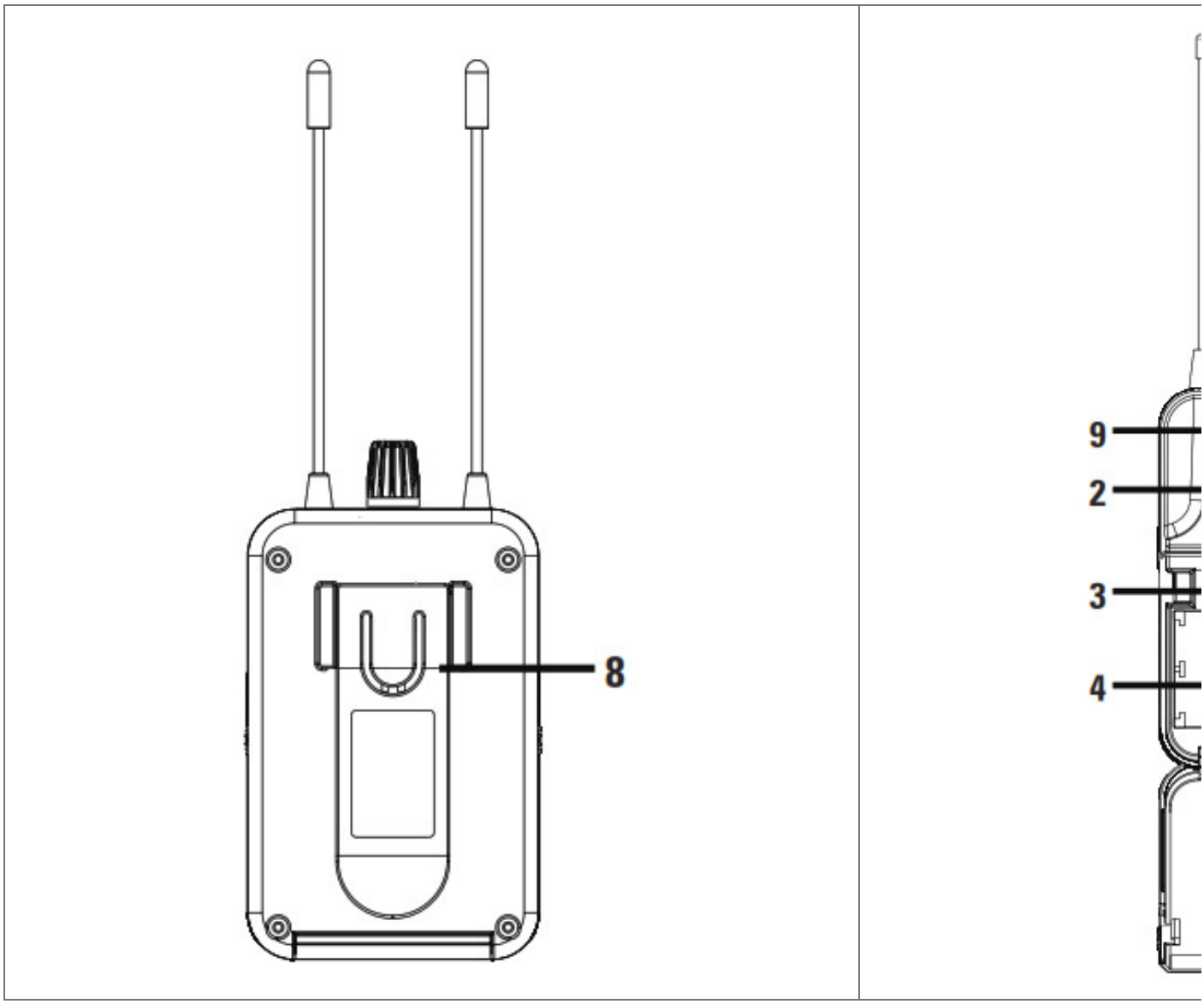


Quad-channel rear view



Bodypack GXLIEMBP Receiver





1. Antennas
2. LCD display
3. IR Node
4. Battery compartment
5. Power switch and volume control
6. Earphone jack
7. Line out jack
8. Belt clip
9. RF Signal indicator
10. Low battery indicator (flashes when low)

T Band 902-928MHz

CH	MHz	CH	MHz
0	903.25	A	911.325
1	903.825	B	916.85
2	904.875	C	925
3	905.325	D	925.65
4	905.975	E	926.85
5	906.575	F	927.65
6	907.225		
7	908.425		
8	909.075		
9	910.875		

Specifications GXLIEM Wireless In-Ear Monitor System

Frequency Response ……. 20Hz – 20KHz
Frequency Band ……. T Band 902 – 928MHz
Dynamic Range …….. >110dB
Channels ……..16 Channel Frequency Agile
Transmitting Power…… 30mW
Displays ……. LCD
Receiver Output ……. Line out and earphone out
Receiver Power requirements …… 2x AA alkaline or rechargeable battery
Receiver Battery Life ……>10hrs
Receiver Dimensions (LxWxH) ……..3.77″x2.44″x8.26″ (96mm x 62mm x 210mm)
Transmitter Dimensions (LxWxH)
4″x12″x12″ (212mm x 177mm x 44mm) Single and Dual
4″x22″x12″ (483mm x 177mm x 44mm) Quad
Transmitter Weight ……..5lbs (2.26Kg) : 7lbs (3.17Kg) : 12lbs (5.44Kg)

WARNING! USE AS LOW A VOLUME AS POSSIBLE.
PERMANENT HEARING DAMAGE CAN RESULT FROM USING THIS SYSTEM AT EXCESSIVE VOLUMES.
For the safe operation of this in-ear monitor system, do not listen to excessive sound pressure levels. Most national safety and health administrations have established guidelines for the maximum time being exposed to sound pressure levels before hearing damage occurs.
85 dB(A) SPL at 8 hours
88 dB(A) SPL at 4 hours

91 dB(A) SPL at 2 hours
94 dB(A) SPL at 1 hour
97 dB(A) SPL at 30 minutes
100 dB(A) SPL at 15 minutes
120 dB(A) SPL — avoid or hearing damage may occur
In live settings, it is difficult to make exact measurements of Sound Pressure Levels (SPL) present at the eardrum, which is affected not only by the in-ear monitor volume but by ambient sound on the stage and other factors.

To protect your ears from hearing damage:

- Use the in-ear monitor system at the lowest volume possible; turn up the volume only enough to hear.
- Be aware that ringing in your ears may indicate that the volume is set too high.
- Have your ears been examined regularly by an audiologist?
- If wax builds up in your ears, stop using the in-ear monitor system until you have seen an audiologist.
- To avoid infections, use an antiseptic to wipe the earphones before and after using the system.
- Stop using the earphones if you experience ear discomfort or infection.

Individuals with cardiac pacemakers and other similar medical devices should consult with their physician before using any RF devices. Though the output level of this wireless system is below 50 milliwatts, the proximity of the transmitter to the implant device could pose a threat.

As with any wireless product, environmental conditions can reduce or in some cases prohibit a successful connection between the transmitter and the receiver.

This device complies with Part 15 of the FCC Rules. Most users of CAD Audio wireless products in the United States do not need a license for operation. However, the rules for unlicensed operation state that this device must not operate in excess of 50 milliwatts and it must not cause harmful interference to other wireless devices and must accept interference received from other devices. Wireless products meeting CAD factory standards adhere to these rules. The FCC reserves the right to change these rules at any time. For more information contact the FCC at 1-888 -CALL-FCC (TTY: 1-888 -TELL-FCC) or visit the FCC's wireless microphone website at:

www.fcc.gov/cgb/wirelessmicrophones

Two-Year Limited Warranty
CAD Audio hereby warrants that this product will be free of defects in material and workmanship for a period of two years from the date of purchase. In the unlikely event that a defect occurs CAD Audio will, at its option, either repair or replace with a new unit of equal or greater value. Retain proof of purchase to validate the purchase date and return it with any warranty claim.

This warranty excludes exterior finish or appearance, damage from abuse, misuse of the product, use contrary to CAD Audio's instructions or unauthorized repair. All implied warranties, merchantability, or fitness for a particular purpose is hereby disclaimed and CAD Audio hereby disclaims liability for incidental, special or consequential damages resulting from the use or unavailability of this product. This warranty gives you specific legal rights and you may have other rights that vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.
Note: No other warranty, written or oral is authorized by CAD Audio.

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Documents / Resources

	CAD GXLIEM Wireless In-Ear Monitor System [pdf] User Guide GXLIEM Wireless In-Ear Monitor System

References

- CAD AUDIO - The Brand Used by Professionals
- Wireless Microphones | Federal Communications Commission