

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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GXLIEM4

UHF Wireless Transmitter

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 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 half wave antenna. Systems are supplied with equal quantity bodypack receivers to transmitters.

Introduction

Enjoy the easy and exciting performance that the GXLIEM™ UHF Wireless Transmitter provides for your next performance. CAD Audio has been creating valued product 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 UHF Wireless Transmitter 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 500 MHz band, free from TV and FCC regulatory issues
- Advanced dipole antenna technology on the bodypack receiver for increased operating distance
- All-Metal Transmitter Chassis for shielded operation, 1/2U or 1U.
- AA Battery Life of >10Hrs of operation
- 2-Year Warranty

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

Specifications GXLIEM Wireless In-Ear Monitor System

Frequency Response	20Hz - 20KHz
Frequency Band	T Band 564.75-585.75MHz
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 safe operation of this in-ear monitor system, do not listen at excessive sound pressure levels. Most national safety and health administrations have established guidelines for 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

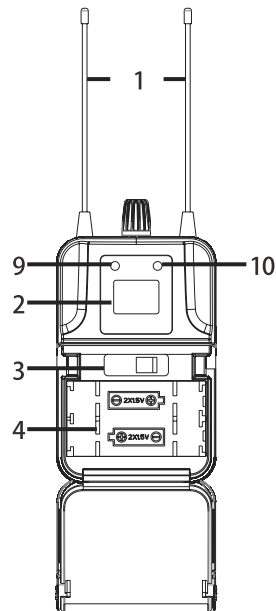
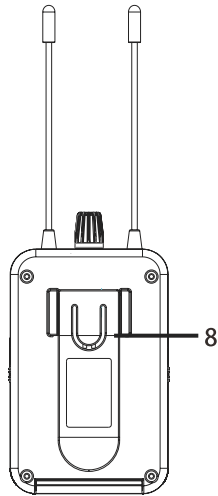
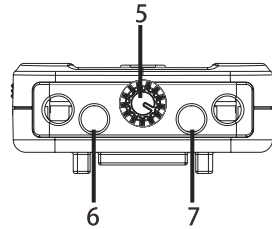
In live settings it is difficult to make exact measurements of Sound Pressure Levels (SPL) present at the eardrum, which is affected not only by the in-ear monitor volume, but by ambient sound on the stage and other factors.

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 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.

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 564.75-585.75MHz

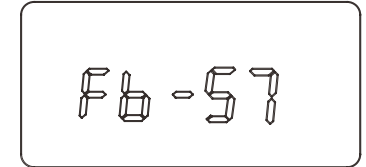
CH	MHz
0	564.750
1	565.500 *
2	566.300
3	567.500 *
4	568.500
5	569.750 *
6	571.250
7	573.150 *
8	574.200 *
9	575.250 *
A	577.750 *
B	579.450 *
C	581.750 *
D	583.250 *
E	584.500 *
F	585.750 *

* Simultaneous channels

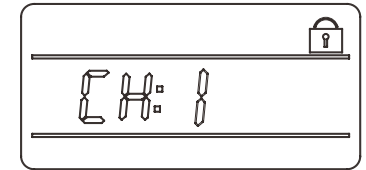
Operating Instructions/System Setup

1. Apply power and press the power switch. The following screen appears at power up.

Fb = Frequency Band
57 = 564.75-585.75MHz



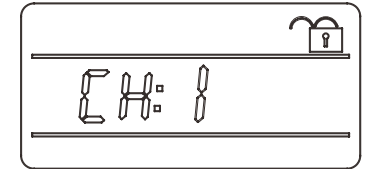
2. Default display shows current transmitting channel.



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

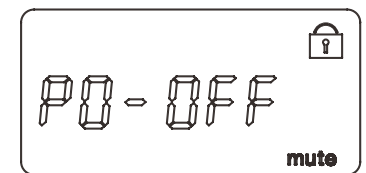
4. ScanLink™ is enabled by pressing the DOWN and UP buttons simultaneously for one second. Hold the receiver ScanLink interface towards the flashing LED to set receiver frequency.



Should you need to temporarily turn off the transmitter

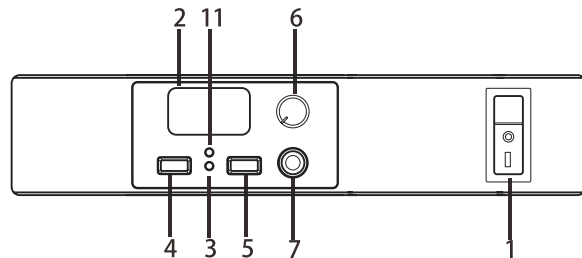
Transmitter power enable/disable.

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 default interface appears.

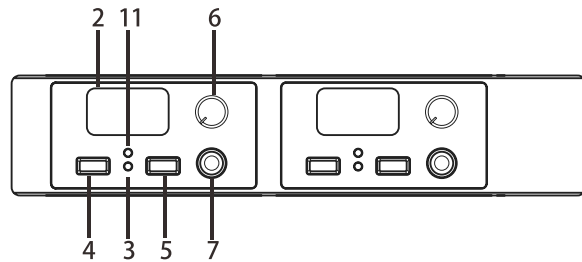


1. Power switch
2. LCD display
3. IR Node
4. Channel down button
5. Channel up button
6. Volume control. Adjust the headphone monitor volume.

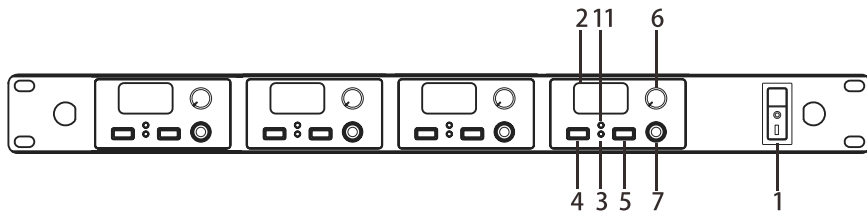
Single channel front view



Dual channel front view

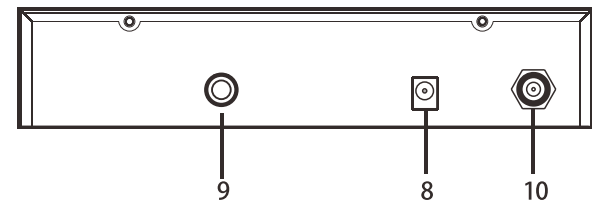


Quad channel front view

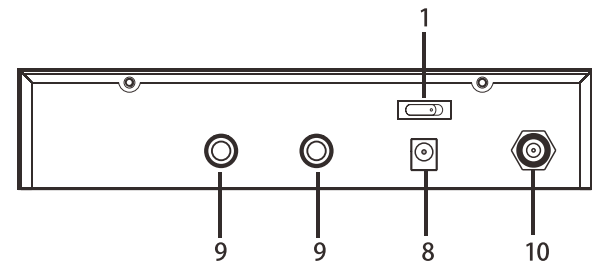


7. Headphone Jack. 1/4" (6.35mm) headphone monitor jack
8. Power jack
9. 1/4" (6.35mm) audio input jack. Connect to audio source, such as mixer monitor send.
10. BNC antenna connection
11. Audio signal level indicator

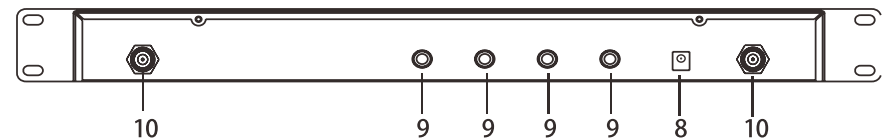
Single channel rear view



Dual channel rear view



Quad channel rear view



IC Caution:

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

- French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux CNR exempts de licence d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes :

(1) Cet appareil ne doit pas causer d'interférences.

(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

L'appareil a été évalué pour répondre aux exigences générales en matière d'exposition aux RF. Le dispositif peut être utilisé en condition d'exposition portable sans restriction.

This radio transmitter [IC:10885A-GXLIEM4] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Cet émetteur radio [IC:10885A-GXLIEM4] a été approuvé par Innovation, Sciences et Développement

économique Canada pour fonctionner avec les types d'antennes énumérés ci-dessous, avec le gain maximum autorisé indiqué. Les types d'antennes non inclus dans cette liste qui ont un gain supérieur au gain maximum indiqué pour tout type répertoriés sont strictement interdits pour une utilisation avec cet appareil.

Operation Frequency: 506-594 MHz

Antenna type: External antenna

Antenna gain: 2.0 dBi

This device operates on a no-interference, no-protection basis. Should the user seek to obtain protection from other radio services operating in the same TV bands, a radio licence is required. For further details, consult Innovation, Science and Economic Development Canada's Client Procedures Circular CPC-2-1-28, Voluntary Licensing of Licence-Exempt Wireless Microphones in the TV Bands.

Cet appareil fonctionne sur une base de non-interférence, de non-protection. Si l'utilisateur cherche à obtenir une protection contre d'autres services de radio fonctionnant dans les mêmes bandes de télévision, une licence radio est requise. Pour de plus amples renseignements, veuillez consulter la Circulaire des procédures concernant les clients CPC-2-1-28, Licence volontaire pour les microphones sans fil exempts de licence dans les bandes de télévision.

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.