

GLXD User Guide

Shure Incorporated Confidential

DRAFT
7.6.12

DRAFT
7.6.12

IMPORTANT SAFETY INSTRUCTIONS

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Allow sufficient distances for adequate ventilation and install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as open flames, radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not place any open flame sources on the product.
9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12. USE only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.



14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose the apparatus to dripping and splashing. DO NOT put objects filled with liquids, such as vases, on the apparatus.
16. The MAINS plug or an appliance coupler shall remain readily operable.
17. The airborne noise of the Apparatus does not exceed 70dB (A).
18. Apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
19. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
20. Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.
21. Operate this product within its specified operating temperature range.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

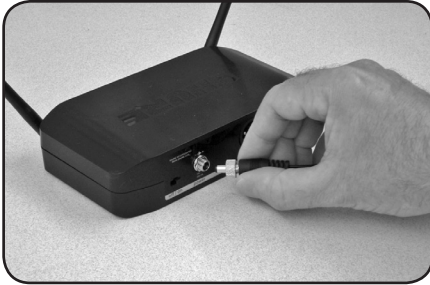
DRAFT
7.6.12

GLXD Wireless Audio System

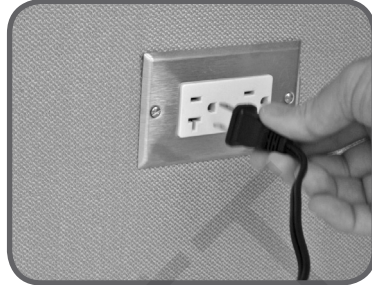
The GLXD is a versatile wireless audio system offering quality sound and easy setup.

Back channel control between the transmitter and receiver enables real-time parameter changes. Compact size maximizes freedom of movement.

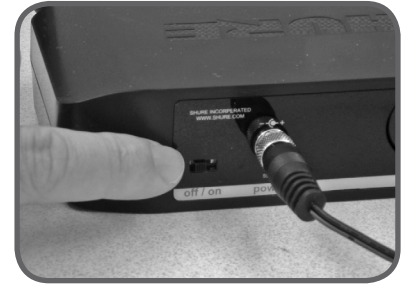
Receiver Quick Start



① Connect power supply to the receiver.



② Plug the power supply into an AC power source.



③ Turn on the receiver.



④ Install charged batteries into the transmitter.

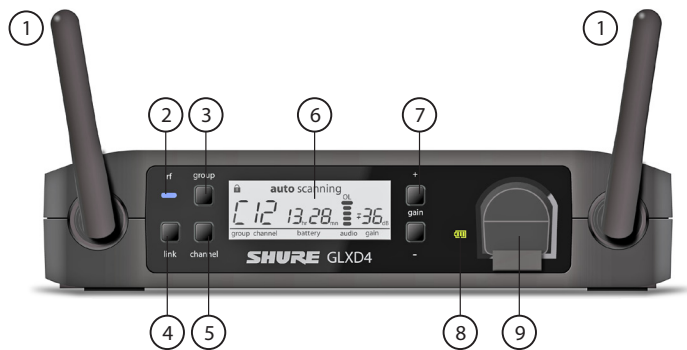


⑤ Turn on transmitter to create a link with the receiver.

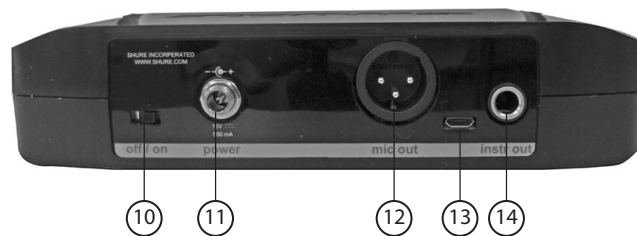


⑥ The system is now ready to use. Test the audio and adjust the gain if necessary.

GLXD4 Receiver



Front Panel

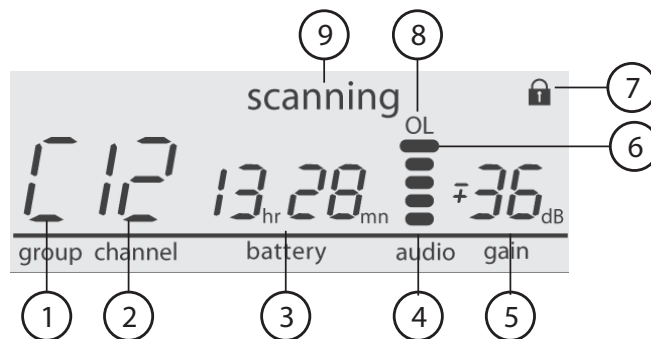


Rear Panel

- ① **Antenna**
Carries the wireless signal, 2 per receiver.
- ② **RF LED**
 - Blue = RF link OK
 - Flashing = Linking in progress
 - Off = No RF link or transmitter off
- ③ **Group Button**
 - Momentary press to start Group Scan
 - Press and hold 2 seconds for manual group edit
- ④ **Link Button**
 - Press for 2 seconds to activate linking
 - Press momentarily for remote ID
- ⑤ **Channel**
 - Momentary press to start Channel Scan
 - Press and hold 2 seconds for manual Channel edit
- ⑥ **LCD Screen**
Displays receiver and transmitter status
- ⑦ **Gain Buttons**
Press to increase or decrease receiver gain in 1 dB increments
- ⑧ **Battery Indicator**
Illuminates when battery is in charging bay:
 - Red = battery charging
 - Green Flashing =
 - Green = battery charged
- ⑩ **Battery Charging Bay**
Charges transmitter battery while receiver is powered.
- ⑪ **Power Switch**
Powers the unit on and off.
- ⑫ **Power Supply Jack**
Connect the supplied 15 V DC external power supply.
- ⑬ **Mic Out XLR Microphone Output Jack**
Supplies microphone-level audio output.
- ⑭ **USB Port**
- ⑮ **Instr Out Balanced 1/4" (6.35mm) TRS Audio Output**
Powers the unit on and off.

Receiver Screen

- ① **Group**
Displays the selected group.
- ② **Channel**
Displays the selected channel.
- ③ **Transmitter Battery Runtime**
Displays remaining battery life in hours and minutes.
- ④ **Audio Meter**
Indicates audio signal level
- ⑤ **Gain**
Displays transmitter gain setting in 1 dB increments.
- ⑥ **Top Indicator**
Indicates audio signal peak.
- ⑦ **Lock**
Displayed when a linked transmitter controls are locked, flashes when the controls of a locked receiver are pressed.
- ⑧ **OL Indicator**
Indicates audio overload.
- ⑨ **Scanning**
Indicates a scan is in process.



Transmitters

① Antenna

Carries wireless signal.

② Power LED

- Green = transmitter on
- Green Flashing = transmitter power switch locked
- Red = remaining transmitter runtime less than 1 hour
- Flashing Red = replace transmitter batteries
- Flashing Green/Red = link identification
- Off = transmitter off

③ Power Switch

Turns the transmitter on/off.

④ Battery Compartment

Holds 1 Shure rechargeable battery.

⑤ USB Charging Door

Connection point for USB battery charging options.

⑥ Link Button

- Press for 2 seconds to activate linking
- Press momentarily for remote ID

⑦ TA4M Input Jack

Connects to a 4-Pin Mini Connector (TA4F) microphone or instrument cable.

⑧ Microphone Cartridge

Models available: SM58, Beta58, SM86, Beta 87.



Locking and Unlocking the controls

The controls of the transmitter and receiver can be locked to prevent accidental or unauthorized changes to settings.

Locking the Transmitter Power Switch

To lock the transmitter power switch from the receiver, simultaneously press and hold the group and channel buttons until the lock icon appears on the LCD. Repeat to unlock.

Lock Icon

The lock icon appears on the LCD when the controls of a linked transmitter have been locked.

Locking the Receiver Controls

To lock the receiver controls, simultaneously press and hold the group and channel buttons for 2 seconds. Repeat to unlock.



If the receiver controls have been locked, the icon flashes to indicate that the lock is enabled on the receiver.

Wireless Tips to Improve System Performance

If you encounter wireless interference or dropouts, try the following suggestions:

- Replace the transmitter batteries
- Choose a different frequency channel
- Reposition the antennas so there is nothing obstructing a line of sight to the transmitter (including the audience)
- Avoid placing transmitter and receiver where metal or other dense materials may be present
- Move the receiver to the top of the equipment rack
- Remove nearby sources of wireless interference, such as cell phones, two-way radios, computers, media players, and digital signal processors
- Keep transmitters more than two meters (6 feet) apart
- Keep the transmitter and receiver more than 5 meters (16 feet) apart
- Keep them away from large metal objects
- During sound check, mark trouble spots and ask presenters or performers to avoid those areas

Batteries

Installing Batteries in the Transmitter

To install transmitter batteries:



1. Release the latch on the battery door.



2. Slide out the battery and replace with a charged battery.



3. Close and latch the battery door.

Charging Batteries

Note: If using the USB charger, the transmitter will not pass RF signal unless the USB cable is disconnected when charging has completed.



Receiver Charging Bay

1. Remove the battery from the transmitter.
2. Insert the battery into the receiver battery charging bay
3. Monitor the battery status LED until charging is complete:
 - Red = battery charging
 - Green Blinking =
 - Green = battery charged



USB Computer Charging Cable

1. Plug the USB computer charging cable into the USB port on the transmitter.
2. Plug the cable into a USB port on the computer.

Scanning to Automatically Find an Available Frequency

Use the scan function to automatically find an available frequency for a wireless audio channel.

Group Scan

Group Scan displays the best available group and channels.

1. Press the Group button once.
2. Allow the Group and Channel scan to complete.



Channel Scan

Channel Scan finds the best available channel when the receiver is set to Autoscan mode.

1. Press the Channel button once.
2. Allow the Channel Scan to complete.



Manual Frequency Selection

Use manual mode to set up groups and channels for wireless audio.

Selecting a Group

1. Press and hold the Group button for 2 seconds until the group display flashes.
2. Press the group button to scroll through the available groups:
 - Select Auto to enter Autoscan mode
 - Select groups A to H to enter Max Channel mode

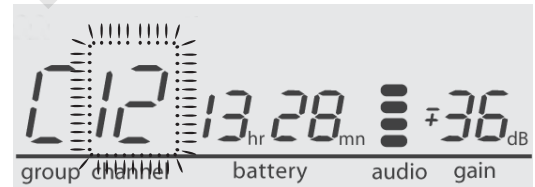
Note: The receiver will automatically save the selected group 2 seconds after the button is pushed.

3. Allow the receiver to scan to find the best channel with in the selected group.



Selecting a Channel

1. Press and hold the Channel button for 2 seconds until the Channel display flashes.
2. Press the Channel button to scroll through the available channels.
3. The receiver will automatically save the selected channel 2 seconds after the button is pushed.



Setting Up a Multi-Receiver System

Additional channels of wireless audio can be created by using multiple receivers:

1. Turn off all transmitters.
2. Press group scan on each receiver to find a frequency.
3. Turn on transmitters and test audio.

Correct Microphone Placement

- Hold the microphone within 12 inches from the sound source. For a warmer sound with increased bass presence, move the microphone closer.
- Do not cover grille with hand.

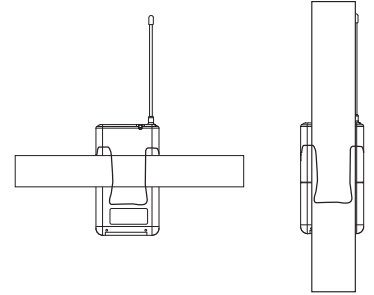
Wearing the Headworn Microphone

- Position the headworn microphone 13 mm (1/2 in.) from the corner of your mouth.
- Position lavalier and headworn microphones so that clothing, jewelry, or other items do not bump or rub against the microphone.

Wearing the Bodypack Transmitter

Clip the transmitter to a belt or slide a guitar strap through the transmitter clip as shown.

For best results, the belt should be pressed against the base of the clip.



Linking a Transmitter and Receiver

The transmitter and receiver automatically form a link the first time they are powered on.

Optionally, use the following steps to manually link a transmitter and receiver:

1. Press and hold the link button on the receiver until the rf LED begins to flash.
2. Press and hold the link button on the transmitter.
3. Linking is complete when the blue RF LED remains on.



Gain Adjustment

Use the receiver gain controls to increase or decrease the audio signal level:

- Momentarily press the gain button to increase or decrease the gain in 1 dB increments
- Press and hold the gain button for faster gain changes

Tip: Observe the receiver audio meter level while adjusting the gain to prevent signal overload.



Troubleshooting

Issue	Indicator Status	Solution
No sound or faint sound	Receiver RF LED on	<ul style="list-style-type: none"> • Verify all sound system connections or adjust gain as needed (see Adjusting Gain) • Verify that the receiver is connected to mixer/amplifier
	Receiver RF LED off	<ul style="list-style-type: none"> • Turn on transmitter • Make sure the batteries are installed correctly • Link transmitter and receiver (see Linking topic) • Insert fresh batteries
	Receiver LCD screen off	<ul style="list-style-type: none"> • Make sure AC adapter is securely plugged into electrical outlet. • Make sure receiver is powered on.
	Transmitter indicator LED flashing red	Replace transmitter batteries (see Changing Batteries).
Audio artifacts or dropouts	Ready LED flickering or off	<ul style="list-style-type: none"> • Change receiver and transmitter to a different group and/or channel. • Identify nearby sources of RF interference, and shutdown or remove source. • Replace transmitter batteries. • Ensure that receiver and transmitter are positioned within system parameters • System must be set up within recommended range and receiver kept away from metallic surfaces. • Transmitter must be used in line of sight from receiver for optimal sound
Distortion	OL indicator appears on receiver LCD	Reduce transmitter gain (see Adjusting Gain).
Sound level variations when switching to different sources	N/A	Adjust transmitter gain as necessary (see Adjusting Gain).
Receiver/transmitter won't turn off	Transmitter LED flashing rapidly	See Locking and Unlocking Controls.

*System must be set up within recommended range and receiver kept away from metallic surfaces.

Certifications

GLXD1, GLXD2, GLXD4

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 Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Meets requirements of the following standards: EN 300 328, EN 301 489, EN60065.

Meets essential requirements of the following European Directives:

- R&TTE Directive 99/5/EC
- WEEE Directive 2002/96/EC, as amended by 2008/34/EC
- RoHS Directive 2002/95/EC, as amended by 2008/35/EC

Note: Please follow your regional recycling scheme for batteries and electronic waste

Certified by IC in Canada under RSS-210 and RSS-GEN.

IC: 616A-GLXD1, 616A-GLXD2, 616A-GLXD4

Certified under FCC Part 15C.

FCC ID: DD4GLXD1, DD4GLXD2, DD4GLXD4

This device complies with Industry Canada licence-exempt RSS standard(s). Operation of this device is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The CE Declaration of Conformity can be obtained from Shure Incorporated or any of its European representatives. For contact information please visit www.shure.com

The CE Declaration of Conformity can be obtained from: www.shure.com/europe/compliance

Authorized European representative:

Shure Europe GmbH

Headquarters Europe, Middle East & Africa

Department: EMEA Approval

Jakob-Dieffenbacher-Str. 12

75031 Eppingen, Germany

Phone: 49-7262-92 49 0

Fax: 49-7262-92 49 11 4

Email: EMEAsupport@shure.de

Information to the user

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 the receiver.
- Connect the equipment to 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.