



# ADX1

## Bodypack Transmitter

User guide for the Shure ADX1 digital wireless bodypack transmitter.  
Version: 12.0 (2022-K)

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# ADX1 Bodypack Transmitter

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## WARNING

- Battery packs may explode or release toxic materials. Risk of fire or burns. Do not open, crush, modify, disassemble, heat above 140°F (60°C), or incinerate.
- Follow instructions from manufacturer
- Only use Shure charger to recharge Shure rechargeable batteries
- **WARNING:** Danger of explosion if battery incorrectly replaced. Replace only with same or equivalent type.
- Never put batteries in mouth. If swallowed, contact your physician or local poison control center
- Do not short circuit; may cause burns or catch fire
- Do not charge or use battery packs other than Shure rechargeable batteries
- Dispose of battery packs properly. Check with local vendor for proper disposal of used battery packs.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like
- Do not immerse the battery in liquid such as water, beverages, or other fluids.
- Do not attach or insert battery with polarity reversed.
- Keep away from small children.
- Do not use abnormal batteries.
- Pack the battery securely for transport.

**Note:** Use only with the included power supply or a Shure-approved equivalent.

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## ADX1 Axient Digital Bodypack Transmitter

ADX series transmitters deliver impeccable audio quality and RF performance, and are equipped with ShowLink® remote control for real-time parameter adjustments and interference avoidance. This transmitter features wide tuning, High Density (HD) mode, encryption, and advanced rechargeability in a streamlined design. Light-weight aluminum construction, AAA or SB910 rechargeable power options (with lockable charging), and TA4 or LEMO3 connector options.

## Features

### Performance

- 184 MHz tuning range
- 20 Hz to 20 kHz range with flat frequency response
- Automatic input staging optimizes gain setting
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance
- AES 256-bit encryption-enabled for secure transmission
- >120 dB, A-weighted, System Gain @ +10
- Digital output: >125dB, A-weighted (Dante, AES3, AES67)
- 100 meter (300 feet) line-of-sight operating range
- Selectable modulation modes optimize performance for spectral efficiency
  - Standard – optimal coverage, low latency
  - High density – dramatic increase in max system channel count

- Built-in tone generator and RF markers to facilitate walk-testing
- Switchable Power Levels = 2/10/40 mW (region dependent)
- Frequency Diversity selection using two bodypacks

## Design

- TA4 or LEMO3 audio connector option
- Backlit LCD with easy to navigate menu and controls
- Durable, moisture-resistant, lightweight metal case
- Flexible  $\frac{1}{4}$  wave antenna
- Menu and power lockout

## Power

- Shure SB910 rechargeable batteries for up to 10 hours of runtime, precision metering, and zero memory effect
- AAA-compatible battery sled available
- External charging contacts for docked charging

## Included Components

|  |                  |
|--|------------------|
| <b>SB910 Shure Rechargeable Battery</b>      | 95A24832         |
| <b><math>\frac{1}{4}</math> wave antenna</b> | Varies by Region |
| <b>Belt clip</b>                             | 44A32452         |
| <b>Zipper bag</b>                            | 95A2313          |

## Optional Accessories

|   |          |
|---|----------|
| <b>SB910 Shure Rechargeable Battery</b>                   | 95A24832 |
| <b>3 x AAA Battery Sled for ADX1 Transmitter</b>          | SB913    |
| <b>AD651FOB Talk Switch fob for bodypack transmitters</b> | 90A37348 |
| <b>Belt clip</b>  | 44A32452 |
| <b>Shure Networked Docking Charger 2-Up</b>               | SBC240   |
| <b>Transmitter carrying case</b>                          | WA610    |

## ADX1 Transmitter Overview

### ① RF Antenna

For RF signal transmission.

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## ② Display

View menu screens and settings. Press any control button to activate the backlight.

## ③ Control Buttons

Use to navigate through parameter menus and to change settings.

## ④ Battery Compartment

Requires Shure SB910 rechargeable battery.

## ⑤ Battery Door

Latching door to secure battery.

## ⑥ SMA Connector

Connection point for RF antenna.

## ⑦ Infrared (IR) Port

Align with the receiver IR port during an IR Sync for automated transmitter tuning and setup.

## ⑧ Power Switch

Powers the unit on or off.

## ⑨ Power LED

- Green = unit is powered on
- Red = low battery, Mute Mode enabled, input overload, or battery error (see Troubleshooting)

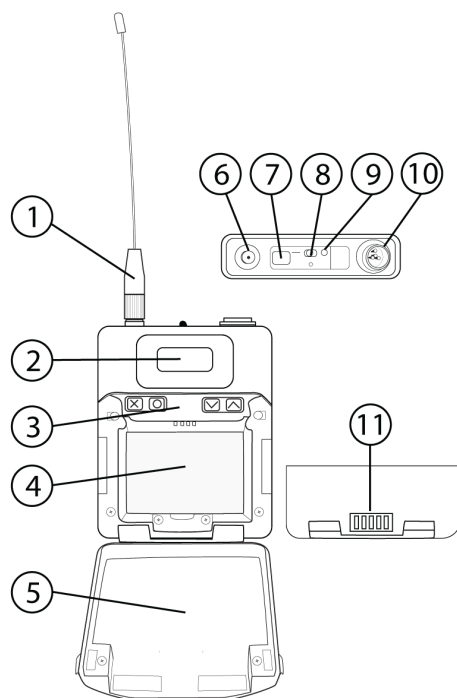
## ⑩ Input Jack

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

*Note: A LEMO connector model variation of this transmitter is available.*

## ⑪ Battery Charging Contacts

Charging contacts for use with docking battery chargers.



## Installing Bodypack Antennas

Hand-tighten antennas until secure. Do not use tools.

## Transmitter Controls

Use the controls to navigate through parameter menus and change values.



| Control | Description   |
|---------|---|
| X       | Acts as a 'back' button to return to previous menus or parameters without confirming a value change |
| O       | Enters menu screens and confirms parameter changes  |
| ∨∧      | Use to scroll through menu screens and to change parameter values                                   |

Tip: Use the following shortcuts for quick setup:

- Hold the ∨ button while powering on to lock or unlock the transmitter.
- Hold the X button while powering on to enter the safe start menu.

# Locking the Interface

Lock transmitter interface controls to prevent accidental or unauthorized changes to parameters. The lock icon appears on the home screen when the interface lock is enabled.

1. From the Utilities menu, navigate to Locks and select one of the following lock options:
  - None: The controls are unlocked
  - Power: The power switch is locked
  - Menu: The menu parameters are locked
  - All: The power switch and menu parameters are locked
2. Press O to save.

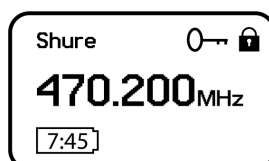
To quickly unlock a transmitter: Press O twice, select None, and press O.

## Home Screen Display

The home screen shows transmitter information and status.

There are four pieces of information that you can choose to see on the home screen. Use the arrow buttons to select one of the following choices:

- Name
- Frequency Setting
- Group (G) and Channel (C)
- Device ID



The following icons indicate transmitter settings:

| Icon | Setting   |
|------|---|
|      | Battery runtime in hours and minutes or bar display   |
|      | Key: Displayed when encryption is enabled   |
|      | Lock: Displayed when controls are locked. Icon will flash if access is attempted to a locked control (power or menu). |
|      | ShowLink signal strength displays 0 to 5 bars   |
| STD  | STD: Standard Transmission Mode   |
| HD   | HD: High Density Transmission Mode  |
|      | RF Mute Engaged: Displayed when RF output is muted  |



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# Shure Rechargeable Batteries

Shure lithium-ion batteries offer a rechargeable option for powering the transmitters. Batteries quickly charge to 50% capacity in one hour and reach full charge within three hours.

Single chargers and multiple bay chargers are available to recharge the Shure batteries.

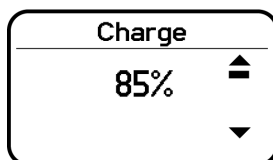
**Caution:** Only charge Shure rechargeable batteries with a Shure battery charger.

## Checking Battery Info

When using a Shure rechargeable battery, the receiver and transmitter home screens display the number of hours and minutes remaining.

Detailed information for the battery is displayed Battery menu of the transmitter: **Utilities > Battery**

- **Battery:** The chemistry type of for the installed battery (Shure, Alkaline, Lithium, NiMH)
- **Bars:** Indicates the number of bars displayed
- **Time:** Battery runtime
- **Charge:** Percentage of charge capacity
- **Health:** Percentage of current battery health
- **Cycle Count:** Total of the number of charging cycles for the installed battery
- **Temperature:** Battery temperature reported in Celsius and Fahrenheit



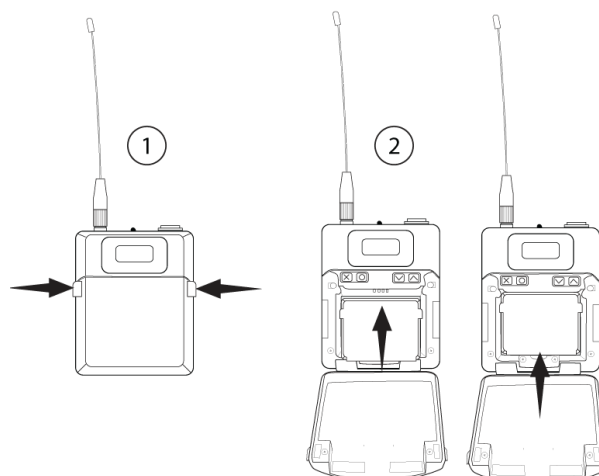
## Important Tips for Care and Storage of Shure Rechargeable Batteries

Proper care and storage of Shure batteries results in reliable performance and ensures a long lifetime.

- Always store batteries and transmitters at room temperature
- Ideally, batteries should be charged to approximately 40% of capacity for long-term storage
- Regularly clean the battery contacts with an electrical contact cleaner designed for gold contacts and safe on plastics
- During storage, check batteries every 6 months and recharge to 40% of capacity as needed

For additional rechargeable battery information, visit [www.shure.com](http://www.shure.com).

## Battery Installation



### ① Accessing the Battery Compartment

Press the door latches and open the battery door.

### ② Inserting the Battery

Insert the battery, contracts first into the battery compartment. Press down on the tab to fully seat the battery, and then close the battery door.

**Tip:** To remove the battery, pull up on the tab on the bottom of the battery.

## ADX1 SB910 Battery Runtime

Note: Higher RF power levels decrease battery runtime. Battery runtime varies with battery age and environmental conditions.

| 2 mW               | 10 mW             | 40 mW            |
|--------------------|-------------------|------------------|
| 11.0 to 12.0 hours | 9.0 to 11.0 hours | 6.5 to 8.5 hours |

**Note:** A Battery Hot warning indicates that transmitter battery needs to cool off. Otherwise, the transmitter will shut down. Let the device cool down and then consider swapping the transmitter battery to continue operation.

Identify any possible external heat sources to the transmitter and operate the transmitter away from those external heat sources.

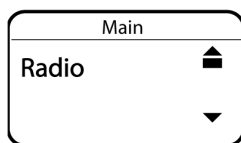
All batteries should be stored and operated away from external heat sources in reasonable temperature conditions for best performance.

## Menu Parameters

The Main menu organizes the available transmitter parameters into three sub-menus:

- Radio
- Audio
- Utilities

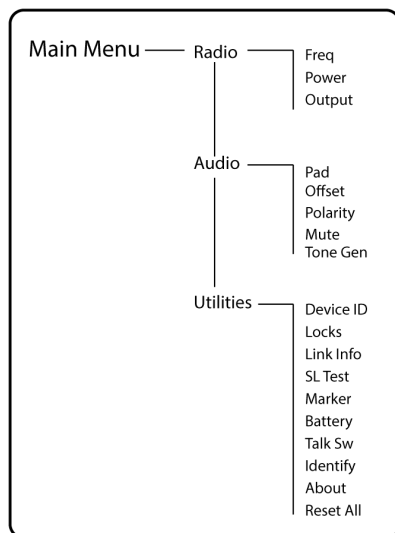
Tip: Use the arrow buttons to scroll between the sub-menus.



## Tips for Editing Menu Parameters

- To access the menu options from the home screen, press O . Use the arrow buttons to access additional menus and parameters.
- A menu parameter will blink when editing is enabled
- To increase, decrease or change a parameter, use the arrow buttons
- To save a menu change, press O
- To exit a menu without saving a change, press X

## Menu Map



## Menu Parameter Descriptions

### Radio Menu

#### Freq

Press the O button to enable editing of a group (G:) channel (C:) or frequency (MHz). Use the arrow buttons to adjust the values. To edit the frequency, press the O button once to edit the first 3 digits, or twice to edit the second 3 digits.

#### Power

Higher RF power settings can extend the range of the transmitter.

*Note: Higher RF power settings decrease battery runtime.*

## Output

Sets the RF output to On or Mute.

- On: RF signal is active
- Mute: RF signal is inactive

# Audio Menu

## Pad

Adjust the pad to avoid overloading the audio input. Select -12 dB or Off.

## Offset

Adjust Offset level to balance mic levels when using two transmitters or when assigning multiple transmitters to receiver slots. Adjustment range: -12 dB to +21 dB.

## Polarity

Selectable polarity assignment for the audio input connector:

- Pos: Positive pressure on microphone diaphragm produces positive voltage on pin 2 (with respect to pin 3 of XLR output) and the tip of the TRS output.
- Neg: Positive pressure on microphone diaphragm produces negative voltage on pin 2 (with respect to pin 3 of XLR output) and the tip of the TRS output.

## Mute

When enabled, the power switch is configured as a mute switch for the audio:

- Power switch on: Audio signal on
- Power switch off: Audio signal muted

Exit mute mode to return the power switch to its normal functionality.

## Tone Gen

Transmitter will generate a continuous test tone:

- Freq: The tone can be set to 400 Hz or 1000 Hz.
- Level: Adjusts the output level of the test tone.

# Utilities Menu

## Device ID

Assign a device ID of up to 9 letters or numbers.

## Locks

Locks the transmitter controls and power switch.

- None: The controls are unlocked
- Power: The power switch is locked
- Menu: The menu parameters are locked
- All: The power switch and menu parameters are locked

## Link Info

Displays the following information about the link between a transmitter and receiver:

- Not Linked: The transmitter is not linked to a receiver
- Linked: The transmitter is linked to a receiver. Select Unlink? to free the transmitter from the receiver link.
- Unlinked: The transmitter is not linked to a receiver

## SL Test

ShowLink test tool to measure the boundaries of ShowLink coverage.

## Marker

When enabled, press the enter button to drop a marker in Wireless Workbench.

## Battery

Displays battery information:

- Battery Life: Runtime reported in bar display and time (hours:minutes)
- Charge: Percentage of charge capacity
- Health: Percentage of current battery health
- Cycle Count: Total of the number of charging cycles for the installed battery
- Temperature: Battery temperature reported in Celsius and Fahrenheit

## Talk Sw

Press ENTER to add control from a talk switch. Press the button on the talk switch twice to complete the link.

## Identify

When enabled, Identify flashes the transmitter icon in Wireless Workbench Inventory or Monitor tabs.

## About

Displays the following transmitter information:

- Model: Displays the model number
- Band: Displays the tuning band of the transmitter
- FW Version: Installed firmware
- HW Version: Hardware version
- Serial Num: Serial number

## Reset All

Restores all transmitter parameters to factory settings.

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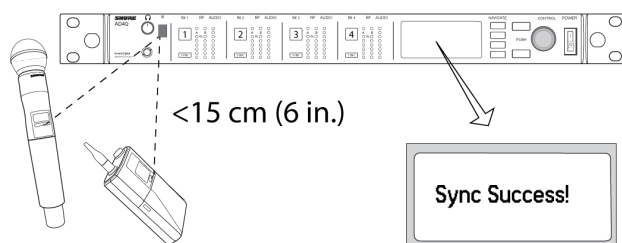
# IR Sync

Use IR Sync to form an audio channel between the transmitter and receiver.

Note: The receiver band must match the band of the transmitter.

1. Select a receiver channel.
2. Tune the channel to an available frequency using group scan or manually turn to an open frequency.
3. Power on the transmitter.

4. Press the SYNC button on the receiver.
5. Align the IR windows between the transmitter and the receiver so that the IR LED illuminates red. When complete, Sync Success! appears. The transmitter and receiver are now tuned to the same frequency.



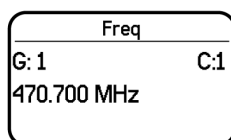
Note:

Any change to the encryption status on the receiver (enabling/disabling encryption) requires a sync to send the settings to the transmitter. New encryption keys for the transmitter and receiver channel are generated on every IR sync, so to request a new key for a transmitter, perform an IR sync with the desired receiver channel.

## Setting the Frequency Manually

The transmitter can be manually tuned to a specific group, channel, or frequency.

1. Navigate to the Radio menu and select Freq.
2. Scroll to select G: and C: to edit the group and channel, or select the frequency parameter (MHz). When editing the frequency, press O once to edit the first 3 digits, or twice to edit the last 3 digits.
3. Use the  $\wedge$   $\vee$  buttons to adjust the group, channel, or frequency.
4. Press O to save, and then press X when finished.

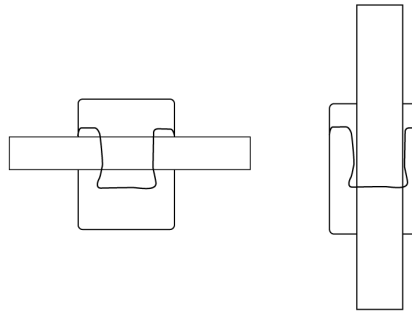


## Wearing the Bodypack Transmitter

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

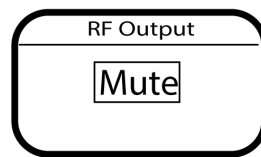
For best results, the belt should be pressed against the base of the clip.

Tip: The clip can be removed and rotated 180 degrees to increase mounting options.



## RF Mute

RF mute prevents transmission of the audio by suppressing the RF signal. The home screen displays RF MUTED in this mode.

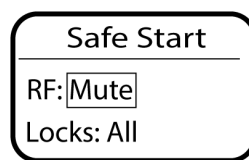


1. From the Radio menu, navigate to Output.
2. Choose one of the following options:
  - On: RF signal is active
  - Mute: RF signal is disabled
3. Press O to save.

When a transmitter is in RF mute mode, the RF will remain muted when the power is cycled and when the battery is replaced. To restore the RF signal, return to the Output menu and select On.

## Safe Start

Power on in Safe Start mode to prevent interference with other devices. Hold the X button while powering on your device until the Safe Start menu appears.



Safe Start menu options:

- RF: Mute or On

- Locks: None, Pwr, Menu, All

Use the navigation buttons to make changes.

To exit the Safe Start menu, cycle the power or momentarily remove the battery.

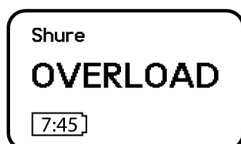
Previous settings for locks and RF will be retained when the transmitter is powered on in Safe Start.

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## Input Overload

The OVERLOAD message appears when the audio input experiences a high-level signal. The power LED turns red as an additional indicator of an overload. Reduce the input signal or enable the input pad to remove the overload condition.

Tip: To enable the input pad, navigate to **Audio > Pad** and select **-12 dB**.

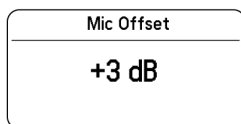


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## Matching Audio Levels with Mic Offset

When linking two or more transmitters to a receiver, there may be a difference in volume levels between microphones or instruments. If this occurs, use the Offset function to match the audio levels and eliminate audible volume differences between transmitters. If using a single transmitter, set Offset to 0 dB.

1. Turn on the first transmitter and perform a sound check to test the audio level. Turn off the transmitter when finished.
2. Turn on the second transmitter and perform a sound check to test the audio level. Repeat for any additional transmitters.
3. If there is an audible difference in the sound level between the transmitters, navigate to the Offset menu (**Audio > Offset**) in the transmitter to increase or decrease the Offset in realtime to match the audio levels.



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## Tone Generator

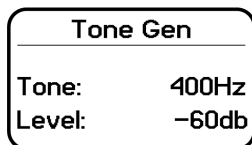
The transmitter contains an internal tone generator that produces a continuous audio signal. The tone is helpful when conducting a sound check or for troubleshooting the audio signal chain. The level of the tone is adjustable from -60 dB to 0 dB and the frequency can be set to 400 Hz or 1000 Hz.



Always start with the level set to -60 dB to avoid overloading speakers or headphones.

1. From the Audio menu select Tone Gen.
2. Set the frequency to 400 Hz or 1000 Hz.
3. Select Level and use the arrow buttons adjust the value between -60 dB and 0 dB.

Turn off the tone by selecting Off from the menu or by cycling the transmitter power.



## ShowLink Test

The ShowLink Test is a tool to find the boundaries of the ShowLink coverage area. When the ShowLink test is activated, a five-bar display indicating the link quality is shown on the screen. As the transmitter moves away from the access point, the number of bars will decrease. ShowLink control is maintained as long as 1 bar is displayed.

If the transmitter is beyond the coverage range, ShowLink control will not be possible. However, the audio signal will not be affected or interrupted as long as the transmitter is within range of the RF signal.

To improve coverage, adjust the location of your access points or place additional access points to extend coverage.

To activate the ShowLink Test:

1. From the Utilities menu, navigate to SL Test.
2. Press the O button to start the test and walk the transmitter around the coverage area. Monitor the number of bars displayed and the state of the ShowLink icon. Coverage boundaries are indicated by 0 bars displayed or the ShowLink icon is empty.
3. Press the X button to exit the ShowLink test.

Tip: During a ShowLink test, press O (enter) to drop a marker in Wireless Workbench.

## Updating Firmware

Firmware is embedded software in each component that controls functionality. Periodically, new versions of firmware are developed to incorporate additional features and enhancements. To take advantage of design improvements, you can upload and install new versions of the firmware by using the Shure Update Utility, available on the [Shure Update Utility page](#).

## Firmware Versions

When performing an update, first download firmware to the receiver, and then update transmitters to the same firmware version to ensure consistent operation.

The firmware numbering for Shure devices uses the following format: MAJOR.MINOR.PATCH (e.g., 1.2.14). At a minimum, all devices on the network (including transmitters), must have the same MAJOR and MINOR firmware version numbers (e.g., 1.2.x).

## Updating the Transmitter

1. Download the firmware to the receiver.
2. Access the following menu from the receiver: Device Configuration > Tx Firmware Update.
3. Align the IR ports between the transmitter and the receiver. IR ports must be aligned for the entire download, which can take 50 seconds or longer.

**Tip:** The red alignment LED will turn on when the alignment is correct.

4. Press ENTER on the receiver to begin the download to the transmitter. The receiver will display the progress of the update as a percentage.

## Troubleshooting

| Issue   | See Solution...  |
|---|--|
| No sound  | Power, Cables, Radio Frequency, or Encryption Mismatch |
| Faint sound or distortion   | Gain, Cables   |
| Lack of range, unwanted noise bursts, or dropouts                                   | Radio Frequency (RF)                                   |
| Cannot turn transmitter off or change frequency settings, or can't program receiver | Interface Locks  |
| Encryption Mismatch message   | Encryption Mismatch                                    |
| Firmware Mismatch message   | Firmware Mismatch                                      |
| Transmitter Battery Hot message   | Tx Battery Hot   |
| Antenna Fault Red LED   | RF   |
| Handheld transmitter shuts down during use  | Clean Battery Contacts                                 |

### Power

Make sure that the receiver and transmitter are receiving sufficient voltage. Check the battery indicators and replace the transmitter batteries if necessary.

### Gain

Adjust the system gain on the front of the receiver. Ensure the output level on the back of the receiver corresponds to the mic/line input setting of the mixing console, amplifier, or DSP.

### Cables

Check that all cables and connectors are working correctly.

### Interface Locks

The transmitter and the receiver can be locked to prevent accidental or unauthorized changes. A locked feature or button will produce the Locked screen on the LCD panel or the lock icon will flash on a transmitter.

## Encryption Mismatch

Re-sync all receivers and transmitters after enabling or disabling encryption.

## Firmware Mismatch

Paired transmitters and receivers must have the same firmware version installed to ensure consistent operation. See Firmware topic for firmware update procedure.

## Tx Battery Hot

If the transmitter battery does not cool off, the transmitter will shut down. Let the device cool down and then consider swapping the transmitter battery to continue operation.

Identify any possible external heat sources to the transmitter and operate the transmitter away from those external heat sources.

All batteries should be stored and operated away from external heat sources in reasonable temperature conditions for best performance.

## Radio Frequency (RF)

### RF LEDs

If neither blue RF Diversity LED is illuminated, then the receiver is not detecting the presence of a transmitter.

The orange RF Signal Strength LEDs indicate the amount of RF power being received. This signal could be from the transmitter, **or it could be from an interfering source, such as a television broadcast**. If more than two of the orange RF LEDs are still illuminated while the transmitter is off, then that channel may be experiencing interference, and you should try a different channel.

The red RF LED indicates RF overload. Overloads have the potential to cause interference in multiple system installations. If you are experiencing an overload, turn off the receiver to see if it is causing interference with other components.

The numerical channel select button also turns red to indicate interference.

- Dim red = Channel is not selected, experiencing interference
- Bright red = Channel is selected, experiencing interference

## Compatibility

- Perform a Scan and Sync to ensure the transmitter and receiver are set to the same group and channel.
- Look at the band label on the transmitter and make sure the receiver is set to the same band.

## Reducing Interference

- Perform a group or channel scan to find the best open frequency. Perform a sync to transfer the setting to the transmitter.
- For multiple systems, check that all systems are set to channels in the same group (systems in different bands do not need to be set to the same group).
- Maintain a line of sight between transmitter and receiver antennas.
- Move or point receiver antennas away from metal objects or other sources of RF interference (such as LED walls, computers, digital effects, network switches, network cables and Personal Stereo Monitor (PSM) wireless systems).
- Eliminate RF overload (see below).

## Increasing Range

If the transmitter is more than 6 to 60 m (20 to 200 ft) from the receiver antenna, you may be able to increase range by doing one of the following:

- Reduce interference (see above).
- Increase transmitter RF power level.
- Use Normal mode instead of High Density mode.
- Use an active directional antenna, antenna distribution system, or other antenna accessory to increase RF range.

## Eliminating RF Overload

If you see the red RF LED on a receiver, try the following:

- Reduce the transmitter RF power level
- Move the transmitter further away from the receiver—at least 6 m (20 ft)
- If you are using active antennas, reduce antenna or amplifier gain.
- Use omnidirectional antennas

## Antenna Faults

The Antenna Fault red LED indicates a short circuit condition or excessive load at an antenna port.

- Check antennas and cables for damage
- Ensure that antenna ports are not overloaded
- Check antenna bias voltage setting. Turn off voltage if using passive antennas.

## Clean Battery Contacts

Clean the battery contacts with an electrical contact cleaner designed for gold contacts and safe on plastics.

## Contact Customer Support

Didn't find what you need? [Contact our customer support](#) to get help.

## Specifications

### Mic Offset Range

-12 to 21 dB (in 1 dB steps)

### Battery Type

Shure SB910 Rechargeable Li-Ion

### Battery Runtime

@ 10 mW

|             |                |
|-------------|----------------|
| Shure SB910 | up to 10 hours |
|-------------|----------------|

## Dimensions

91 mm x 68 mm x 19 mm (3.6 in. x 2.7 in. x 0.8 in.) H x W x D

## Weight

142 g (5.0 oz.), Without Battery

## Housing

Aluminum

## Operating Temperature Range

-18°C (0°F) to 45°C (113°F)

Note: Battery characteristics may limit this range.

## Storage Temperature Range

-29°C (-20°F) to 74°C (165°F)

Note: Battery characteristics may limit this range.

## Audio Input

### Connector

4-Pin male mini connector (TA4M) or Lemo Connector

### Configuration

Unbalanced

## Impedance

|   |                |
|---|----------------|
| <b>4-Pin male mini connector (TA4M)</b> | 910 k $\Omega$ |
| <b>Lemo Connector</b>                   | 8.2 k $\Omega$ |

## Maximum Input Level

1 kHz at 1% THD

|                |                    |
|----------------|--------------------|
| <b>Pad Off</b> | 8.5 dBV ( 7.5 Vpp) |
| <b>Pad On</b>  | 20.5 dBV ( 30 Vpp) |

## Preamplifier Equivalent Input Noise (EIN)

System Gain Setting  $\geq +20$

-120 dBV, A-weighted, typical

## RF Output

### Antenna Type

UHF 1/4 wave

### Connector Type

SMA

## Impedance

50  $\Omega$ 

## Occupied Bandwidth

&lt;200 kHz

## Channel-to-Channel Spacing

|                          |         |
|--------------------------|---------|
| <b>Standard Mode</b>     | 350 kHz |
| <b>High Density Mode</b> | 125 kHz |

varies by region

## Modulation Type

Shure Axient Digital Proprietary

## Power

2 mW, 10 mW, 40 mW

See Frequency Range and Output Power table, varies by region

## Specific Absorption Rate (SAR)

&lt; 0.20 W/kg

## ShowLink

## Network Type

IEEE 802.15.4

## Antenna Type

Zigbee Dual Conformal

## Frequency Range

2.40 to 2.4835 GHz ( 24 Channels)

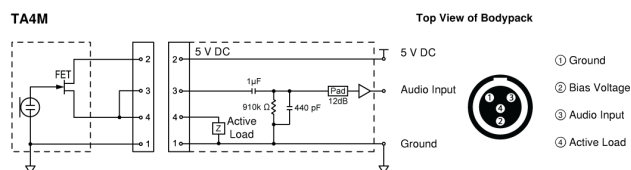
## RF Output Power

10 dBm (ERP)

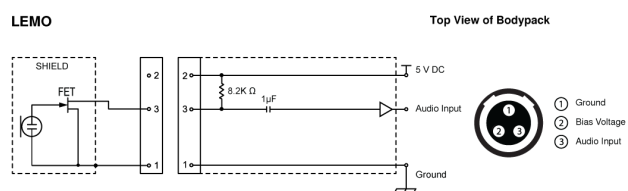
varies by region

# Input Connector Diagrams

## TA4M



## LEMO



# Frequency Range and Transmitter Output Level

| Band | Frequency Range ( MHz) | Tx RF Power ( mW) <sup>***</sup> |
|------|------------------------|----------------------------------|
| G53  | 470 to 510             | 2/10/40                          |
| G54  | 479 to 565             | 2/10/20                          |
| G55† | 470 to 636             | 2/10/40                          |
| G56◇ | 470 to 636             | 2/10/40                          |
| G57△ | 470 to 616*            | 2/10/40                          |
| G62  | 510 to 530             | 2/10/40                          |
| H54  | 520 to 636             | 2/10/40                          |
| K53† | 606 to 698             | 2/10/40                          |
| K54△ | 606 to 663**           | 2/10/40                          |
| K55  | 606 to 694             | 2/10/40                          |
| K56  | 606 to 714             | 2/10/40                          |
| K57  | 606 to 790             | 2/10/40                          |
| K58  | 622 to 698             | 2/10/40                          |
| L54  | 630 to 787             | 2/10/40                          |
| L60  | 630.125 to 697.875     | 2/10/40                          |

| Band | Frequency Range ( MHz)             | Tx RF Power ( mW)** |
|------|------------------------------------|---------------------|
| P55  | 694 to 703, 748 to 758, 803 to 806 | 2/10/40             |
| R52  | 794 to 806                         | 10                  |
| JB   | 806 to 810                         | 2/10                |
| X55  | 941 to 960                         | 2/10/40             |
| X56  | 960 to 1000                        | 2/10/40             |

\*With a gap between 608 to 614 MHz.

\*\*With a gap between 608 to 614 MHz and a gap between 616 to 653 MHz.

\*\*\*Power delivered to the antenna port.

†Operation mode varies according to region. In Brazil, High Density mode is used. The maximum power level for Peru is 10mW.

△ Output power limited to 10 mW above 608 MHz.

◇ Korea defines power as conducted (ERP) which is 1dB less than declared in table.

เครื่องโทรคมนาคมและอุปกรณ์นี้มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดทางเทคนิคของ กสทช.

## K55 606-694 MHz

| Country Code                          | Frequency Range     |
|---------------------------------------|---------------------|
| Code de Pays                          | Gamme de frequences |
| Codice di paese                       | Gamme di frequenza  |
| Código de país                        | Gama de frecuencias |
| Länder-Kürzel                         | Frequenzbereich     |
| A, B, BG, CH, CY, CZ, D, DK, EST, F   | *                   |
| FIN, GB, GR, H, HR, I, IRL, IS, L, LT | *                   |
| M, N, NL, P, PL, RO, S, SK, SLO, TR   | *                   |
| all other countries                   | *                   |

\* This equipment may be capable of operating on some frequencies not authorized in your region. See [Licensing Information](#).



## G56 470-636 MHz

| Country Code                          | Frequency Range     |
|---------------------------------------|---------------------|
| Code de Pays                          | Gamme de frequences |
| Codice di paese                       | Gamme di frequenza  |
| Código de país                        | Gama de frecuencias |
| Länder-Kürzel                         | Frequenzbereich     |
| A, B, BG, CH, CY, CZ, D, DK, EST, F   | *                   |
| FIN, GB, GR, H, HR, I, IRL, IS, L, LT | *                   |
| M, N, NL, P, PL, RO, S, SK, SLO, TR   | *                   |
| all other countries                   | *                   |

\* This equipment may be capable of operating on some frequencies not authorized in your region. See [Licensing Information](#).

## K57 606-790 MHz

| Country Code                          | Frequency Range     |
|---------------------------------------|---------------------|
| Code de Pays                          | Gamme de frequences |
| Codice di paese                       | Gamme di frequenza  |
| Código de país                        | Gama de frecuencias |
| Länder-Kürzel                         | Frequenzbereich     |
| A, B, BG, CH, CY, CZ, D, DK, EST, F   | *                   |
| FIN, GB, GR, H, HR, I, IRL, IS, L, LT | *                   |
| M, N, NL, P, PL, RO, S, SK, SLO, TR   | *                   |
| all other countries                   | *                   |

\* This equipment may be capable of operating on some frequencies not authorized in your region. See [Licensing Information](#).

No user-operated control of power, frequency, or other parameters are available beyond those specified in this operating manual.

Please follow your regional recycling scheme for batteries, packaging, and electronic waste.

## LICENSING INFORMATION

Licensing: A ministerial license to operate this equipment may be required in certain areas. Consult your national authority for possible requirements. Changes or modifications not expressly approved by Shure Incorporated could void your authority to operate the equipment. Licensing of Shure wireless microphone equipment is the user's responsibility, and licensability de-

depends on the user's classification and application, and on the selected frequency. Shure strongly urges the user to contact the appropriate telecommunications authority concerning proper licensing, and before choosing and ordering frequencies.

#### 低功率射頻器材技術規範

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

## Australia Warning for Wireless

**WARNING:** This device operates under an ACMA class licence and must comply with all the conditions of that licence including operating frequencies.

## Canada Warning for Wireless

This device operates on a no-protection, no-interference 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 document Client Procedures Circular CPC-2-1-28, Voluntary Licensing of Licence-Exempt Low-Power Radio Apparatus in the TV Bands.

Ce dispositif fonctionne selon un régime de non-brouillage et de non-protection. Si l'utilisateur devait chercher à obtenir une certaine protection contre d'autres services radio fonctionnant dans les mêmes bandes de télévision, une licence radio serait requise. Pour en savoir plus, veuillez consulter la Circulaire des procédures concernant les clients CPC-2.1.28, Délivrance de licences sur une base volontaire pour les appareils radio de faible puissance exempts de licence et exploités dans les bandes de télévision d'Innovation, Sciences et Développement économique Canada.

## Certifications

Certified under FCC Part 15 and FCC Part 74.

Certified by ISED in Canada under RSS-210.

**FCC ID:** DD4ADX1G57, DD4ADX1K54, DD4ADX1X55. **IC:** 616A-ADX1K57, 616A-ADX1X54.

Meets essential requirements of the following European Directives:

- WEEE Directive 2012/19/EU, as amended by 2008/34/EC
- RoHS Directive EU 2015/863

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

This product meets the Essential Requirements of all relevant European directives and is eligible for CE marking.

**CE Notice:** Hereby, Shure Incorporated declares that this product with CE Marking has been determined to be in compliance with European Union requirements. The full text of the EU declaration of conformity is available at the following site: <https://www.shure.com/en-EU/support/declarations-of-conformity>.

Authorized European representative:

Shure Europe GmbH

Department: Global Compliance

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- (一) 本产品符合“微功率短距离无线电发射设备目录和技术要求”的具体条款和使用场景；
- (二) 不得擅自改变使用场景或使用条件、扩大发射频率范围、加大发射功率（包括额外加装射频功率放大器），不得擅自更改发射天线；
- (三) 不得对其他合法的无线电台（站）产生有害干扰，也不得提出免受有害干扰保护；
- (四) 应当承受辐射射频能量的工业、科学及医疗（ISM）应用设备的干扰或其他合法的无线电台（站）干扰；
- (五) 如对其他合法的无线电台（站）产生有害干扰时，应立即停止使用，并采取措施消除干扰后方可继续使用；
- (六) 在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站（含测控、测距、接收、导航站）等军民用无线电台（站）、机场等的电磁环境保护区域内使用微功率设备，应当遵守电磁环境保护及相关行业主管部门的规定。

## Information to the user

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

**Note:** 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.

This device operates on frequencies shared with other devices. Consult the Federal Communications Commission White Space Database Administration website to determine available channels in your area prior to operation.

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.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.