



### HAND HELD TRANSMITTER

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### PRODUCT DESCRIPTION

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Figure 1. QLXD2 Hand Held Transmitter

#### General Product Description

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QLXD Wireless is a digital wireless microphone system. The system comprises a bodypack transmitter (QLXD1), a handheld microphone transmitter (QLXD2) and a single channel receiver (QLXD4). The system operates in the UHF TV band (470 to 937.5 MHz). QLXD Wireless is intended for use in mid-tier presentation, installed, and performance markets.

#### FEATURES

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Notable QLXD1 design features include:

- Fast transmitter power on: <1 sec
- Segmented LCD interface
- Infrared sync with firmware update capabilities
- Thread locking TA4 audio connector
- High dynamic range “Gain Ranging” audio input
- Highly transparent, “compander-free”, low latency, digital audio
- 256-bit AES Encryption
- Operates on 2 AA size batteries or the SB900 rechargeable Li-ion battery pack.
- Long Battery life: >10 h with SB900 at 10mW
- Wide tuning range (64 MHz at 500MHz)
- Selectable output power: 1mW, 10mW
- Removable antenna
- Charge contacts allow charging SB900 without removal
- Metal construction

The transmitter is built in eight board groups (A-J) which are set in software to behave as a specific band for sale. The transmitter may be reprogrammed to a different band without retuning on a test fixture.

Group A: 470-534 MHz → G50, G51, or G52

Group B: 534-598 MHz → H50,H51,H52,H53

Group C: 572-636 MHz → J50,J51

Group D: 606-670 MHz → K51,K52

Group E: 632-714 MHz → L50,L51,L52,L53

Group F: 710-782 MHz → P51,P52

Group G: 794-806 MHz →, Q51

Group H: 823-865 MHz → S50

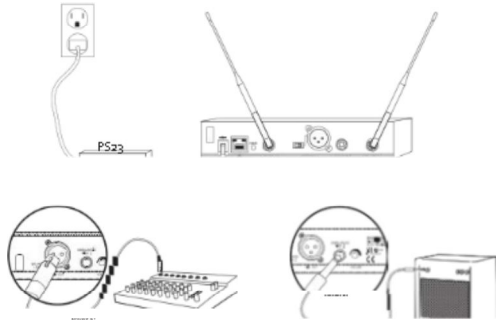
Group J: 925-937.5 MHz → X50

# TRANSMITTER CONTROLS AND CONNECTORS

## Quick Start

### Step 1: Power and Antenna Connection

- ① Connect an antenna to each of the antenna connectors.
- ② Connect the power supply to the receiver and plug into an AC power source.
- ④ Press and hold the power button to turn on the receiver.



- ③ Connect the receiver audio output to a mixer or amplifier.

### Step 2: Scanning for the Best Available Frequency

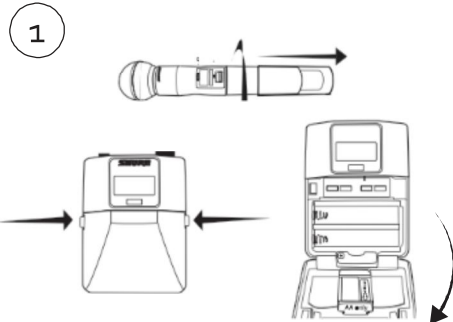
1. Press the menu button on the receiver to access the scan function.



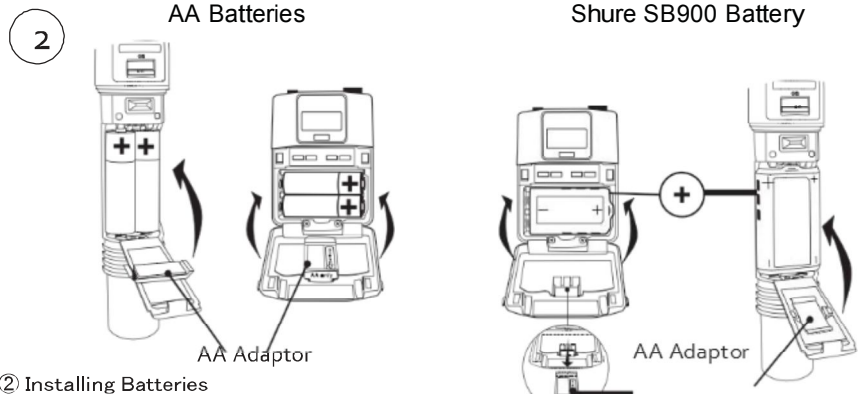
2. Press the enter button to start a frequency scan. The scan icon will flash while in scan mode. When the scan is complete, the selected group and channel appears on the display.



### Step 3: Install Batteries into Transmitter



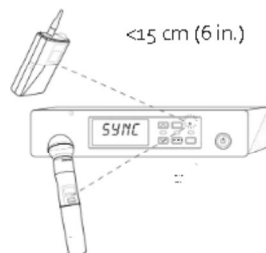
- ① Accessing the Battery Compartment  
Press the side tabs on the bodypack or unscrew the cover on the handheld as shown to access the battery compartment.



- ② Installing Batteries
  - AA Batteries: Place batteries (note polarity markings) and AA Adaptor as shown
  - Shure SB900 Battery: Place battery as shown (note polarity markings), remove AA Adaptor from bodypack transmitter, stow AA Adaptor in door for handheld transmitter

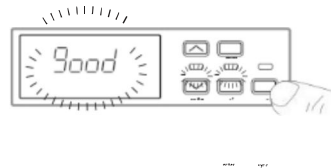
### Step 4: IR Sync to Create an Audio Channel

1. Press the sync button on the receiver. The red ir LED will blink indicating that sync mode is active.
2. Align the IR sync windows of the transmitter and receiver at a distance of <15 cm (6 in.). When the transmitter



and receiver are aligned, the red ir LED remains on and the sync will automatically occur.

3. sync good appears on the display when IR sync is complete. The blue rf LED will illuminate indicating that the transmitter is within range of the receiver.



Note: If the IR sync fails, repeat the IR sync procedure, carefully maintaining alignment between the IR windows of the transmitter and receiver.

### Step 5: Sound Check and Gain Adjustment

1. Test the transmitter at performance levels while monitoring the audio meter and the audio LED.

Tip: The audio meter should display at least 3 bars and the audio LED should be green. Reduce the gain if there is audible distortion of the audio.

2. Increase or decrease the gain if necessary by pressing the  $\wedge$   $\vee$  buttons on the receiver front panel.

