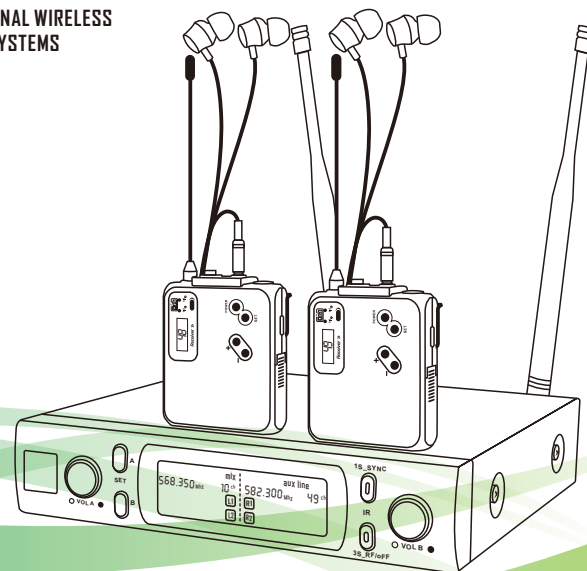# Single   Channel In-Ear Monitoring System
Dual Channel In-Ear Monitoring System

PROLESSIONAL WIRELESS
MONITOR SYSTEMS

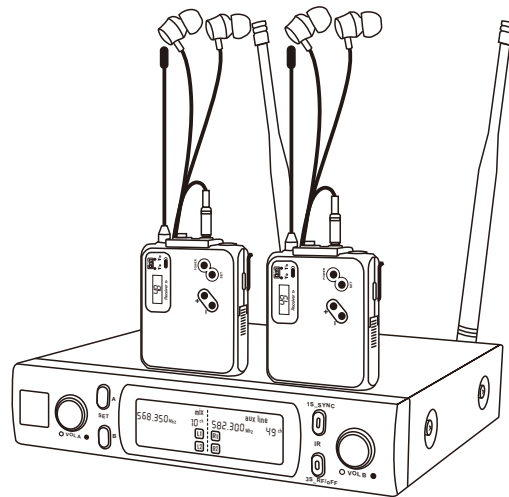## Congratulations on purchasing your wireless in-ear monitoring system

Three years in the making, the Wireless Monitor System is a unique direct mount box designed to handle the new generation of wireless monitor equipment.

A cost-effective dual-channel wireless monitoring system; simple display interface, easy operation, simple use, and long transmission distance, it is the first choice for small and medium-sized stage instrument groups. The transmitter is an all-metal body with a very cost-effective ABS material panel. It is used with an external DC 12V~18V, supports XLR and Φ6.3mm high dynamic range audio input interfaces, and can withstand mixers, mixers, mobile phones, and computers. , MP3 and other audio output and equipped with lotus, 3.5mm TRS and other multi-interface input; the panel is designed with a simple and easy-to-understand LCD display, showing the current frequency, channel, volume, input mode and dynamic level of audio and radio frequency. The receiver adopts a combination of double-digit digital lights and LEDs to display relevant product information such as the current channel, volume value, radio frequency reception, and low battery warning. Φ3.5 headphone socket output 80mW@16Ω. Preset multiple groups of frequency groups that do not interfere with each other, and use SYNC infrared frequency pairing to pass through the receiver.

We invite you to read this manual before using the Radial Wireless Monitoring System,
allowing you to maximize its potential.

Wireless Monitoring System Features

● UHF dual-channel wireless audio transmission, providing high-fidelity listening effect;
● Instrument combinations, small and medium-sized stage monitors, long-distance wireless audio transmission;
● DSP digital audio companding, using 48KHz audio sampling rate, to reduce the noise in the wireless transmission system to the best;
● Dual-channel transmission is used to realize independent dual transmission and multi-reception;
● Transmitter and receiver output volume can be adjusted independently;
● The transmitter has RF OFF function, suitable for more applications;
● 32 switchable frequencyper channel to achieve operation without environmental interference;
● Infrared automatic frequency link and lock the corresponding frequency point;
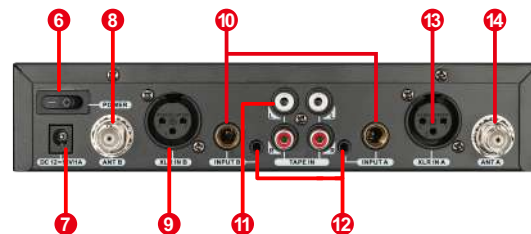● Use LCD display to display corresponding product information;

1. UP key: Long press to adjust the frequency channel upwards;
2. DOWN key: long press down to adjust the frequency channel;
3. LCD display: display the current frequency, channel, volume, input mode, RF channel and AF dynamics Level;
4. Infrared frequency matching button: Short press to enter the current channel iR frequency matching, and the corresponding button light is flashing when the frequency is matching;
5. Channel frequency matching button: Short press to enter the current channel iR frequency matching, and the corresponding button light is flashing when the frequency is matching Flicker; long press to enter RF/OFF mode. At this time, the button light is on to indicate that RF/OFF has been turned on, and then Long press to release the RF/OFF button light to turn off;
6. Channel volume knob: the input volume of the channel can be adjusted;

7, transmitter power switch: toggle can control the equipment on and off;
8. DC power input socket: input DC12V~ 18V/1A adapter;
9. Lotus input interface: connect to Lotus signal source;
10. 3.5mm flower input interface: connect 3.5mm signal source, such as mobile phone, computer, etc.;
11.6.3Mm balanced input interface: connect unbalanced signal source;
12. Channel audio balanced input: connect balanced signal sources, such as the big dynamic output of the mixer Balanced signal level;
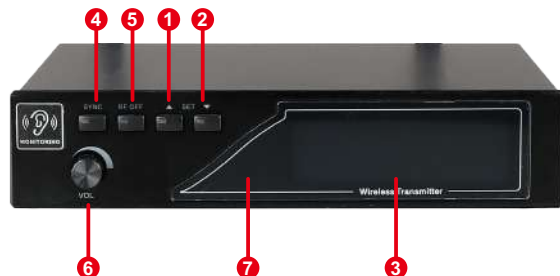13. Antenna input: connect the BNC antenna of the corresponding frequency;

1. A channel volume knob: it can adjust the input volume of A channel;
2. A/B channeladjustment button: long press the corresponding channel button to adjust the current transmission channel;
3. LCD display: display the current frequency, channel, volume, input mode, RF and AF dynamic level;
4. A/B channel frequency pairing button: short press to enter the current channel iR frequency pairing, the corresponding button light is flashing during frequency pairing; long press to enter RF/OFF mode, at this time the key light is always on to indicate that RF/OFF is on, Long press to release the RF/OFF button and the light goes off;
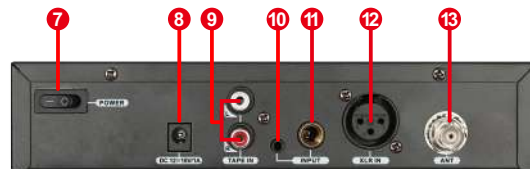5. B channel volume knob: can adjust the input volume of B channel;

6. Transmitter power switch: Toggle to control the device on and off;
7. DC power input socket: input DC12V~18V/1A adapter;
8. B antenna input: connect the BNC antenna of the corresponding frequency;
9. B-channel audio balanced input: connect to a balanced signal source, such as a large dynamic balanced signal level output by a mixer;
10. 6.3mm balanced input interface: connect unbalanced signal source;
11. RCA input interface: connect to RCA signal source;
12. 3.5mm input interface: connect to 3.5mm signal source, such as mobile phone, computer, etc.;
13. A channel audio balance input: connect to a balanced signal source, such as a large dynamic balance signal level output by a mixer;
14. A antenna input: connect the BNC antenna of the corresponding frequency;
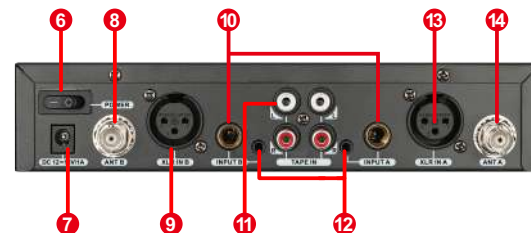
单通道面板功能说明：

1. UP key: Long press to adjust the frequency channel upwards;
2. DOWN key: long press down to adjust the frequency channel;
3. LCD display: display the current frequency, channel, volume, input mode, RF channel and AF dynamics Level;
4. Infrared frequency matching button: Short press to enter the current channel iR frequency matching, and the corresponding button light is flashing when the frequency is matching;
5. Channel frequency matching button: Short press to enter the current channel iR frequency matching, and the corresponding button light is flashing when the frequency is matching Flicker; long press to enter RF/OFF mode. At this time, the button light is on to indicate that RF/OFF has been turned on, and then Long press to release the RF/OFF button light to turn off;
6. Channel volume knob: the input volume of the channel can be adjusted;
7. Infrared frequency window, and the iR receiver channel synchronization signal;
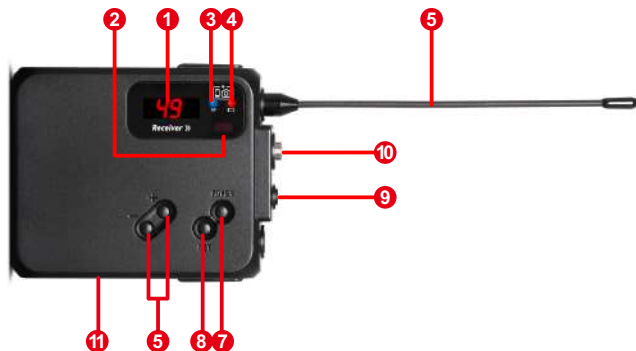
6. Transmitter power switch: Toggle to control the device on and off;
7. DC power input socket: input DC12V~18V/1A adapter;
8. B antenna input: connect the BNC antenna of the corresponding frequency;
9. B-channel audio balanced input: connect to a balanced signal source, such as a large dynamic balanced signal level output by a mixer;
10. 6.3mm balanced input interface: connect unbalanced signal source;
11. RCA input interface: connect to RCA signal source;
12. 3.5mm input interface: connect to 3.5mm signal source, such as mobile phone, computer, etc.;
13. A channel audio balance input: connect to a balanced signal source, such as a large dynamic balance signal level output by a mixer;
14. A antenna input: connect the BNC antenna of the corresponding frequency;

1. A channel volume knob: it can adjust the input volume of A channel;
2. A/B channeladjustment button: long press the corresponding channel button to adjust the current transmission channel;
3. LCD display: display the current frequency, channel, volume, input mode, RF and AF dynamic level;
4. A/B channel frequency pairing button: short press to enter the current channel iR frequency pairing, the corresponding button light is flashing during frequency pairing; long press to enter RF/OFF mode, at this time the key light is always on to indicate that RF/OFF is on, Long press to release the RF/OFF button and the light goes off;
5. B channel volume knob: can adjust the input volume of B channel;
6. Infrared frequency window, and the iR receiver channel synchronization signal;

6. Transmitter power switch: Toggle to control the device on and off;
7. DC power input socket: input DC12V~18V/1A adapter;
8. B antenna input: connect the BNC antenna of the corresponding frequency;
9. B-channel audio balanced input: connect to a balanced signal source, such as a large dynamic balanced signal level output by a mixer;
10. 6.3mm balanced input interface: connect unbalanced signal source;
11. RCA input interface: connect to RCA signal source;
12. 3.5mm input interface: connect to 3.5mm signal source, such as mobile phone, computer, etc.;
13. A channel audio balance input: connect to a balanced signal source, such as a large dynamic balance signal level output by a mixer;
14. A antenna input: connect the BNC antenna of the corresponding frequency;

System Specifications

RF carrier frequency range: 653MHz~657MHz;

Frequency stability: 0.005%;

Effective working distance (ideal environment): ≥120 meters;

Audio compression and expansion: DSP digital audio compression and expansion;

audio sampling rate: 48KHz

Audio frequency response: 50Hz～1800Hz ±3dB;

Dynamic range: 92dB;

Signal-to-noise ratio (A-weighted): 105 dB;

THD: ≤0.8%,@1KHz;

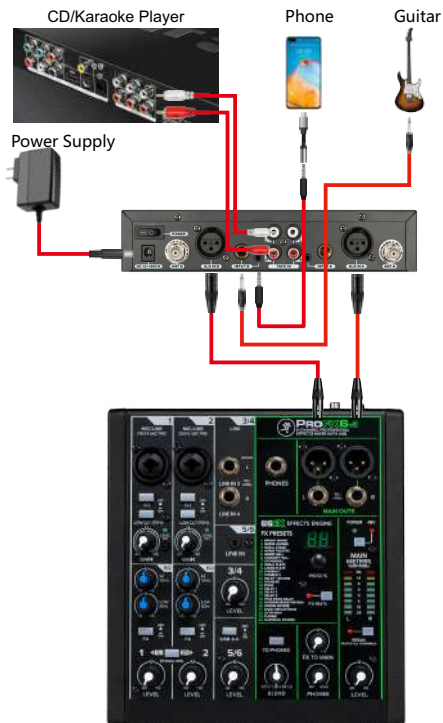Working temperature range: -10℃~ +50℃;

Receiver Specifications

Receiving bandwidth: 653MHz~657MHz

Receiving mode: dual channel, superheterodyne

Image rejection: 45dBm

RF sensitivity: S/N ≥ 45dB when inputting 10dBu

Squelch adjustment: built-in setting parameters

Frequency synchronization method: manual button setting or infrared frequency pairing

Display mode: dual digit digital light plus LED combination display

Headphone output power: 80mW@16Ω

Output level adjustment range: 5 levels adjustable, attenuation adjustment, every 3dB step

Power supply mode: AA 1.5V x 2 can also support external power supply.

Normal working current: 3V 110mA

Battery life: ≥10 hours

Dimensions: length 63*width 77.5*height 19.5(mm)

Net weight (without battery): 66.8g

Transmitter Specifications

Carrier bandwidth: 653MHz~657MH

Oscillation mode: PLL frequency synthesis

Transmission power: 20dBm/100mW

Carrierdeviation: 0.005%

Harmonic radiation: -32dBm

Modulation method: FSK

Nominal/maximum frequency deviation: ± 65KHz

Audio input interface: balanced XLR, Φ6.35mm, Φ3.5mm TRS, lotus seat

Input Impedance: 2.2KΩ

Net weight: 860g

Dimensions: length 210*width 175*height 43(mm)

1. LEDlight: display the current channel or volume value;
2. Infrared frequency binding window: Synchronize with the transmitter iR channel your signal;
3. RF indicator light: When receiving RF signal, the light is always on;
4. Low battery power warning light: the receiving battery power is too low, and the light is always on;
5. Receiving antenna: Receive the radio wave signal emitted from the transmitter;
6. Volume adjustment button: long press +, - button to adjust the current volume;
7. Power switch: long press to turn on or off the device;
8. Channel adjustment button: long press to adjust the current channel;
9. Headphone interface: connect 3.5mm TRS 32 ohm headphones;
10. LINE output: Synchronously output the LINE audio signal of the earphone;
11. Battery compartment

Wireless monitoring system transmitter audio input interface connection diagram:

CD/Karaoke Player   Phone   Guitar

Power Supply

Wireless monitoring system transmitter audio input interface connection diagram:

Line audio output connection

Line Audio Cable Connection Diagram

3

2   1

cathode

anode

FCC Warning

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 inte rference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 interferenceto 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.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.