RW2090

WIRELESS MONITORING SYSTEM

OPERATION INSTRUCTIONS

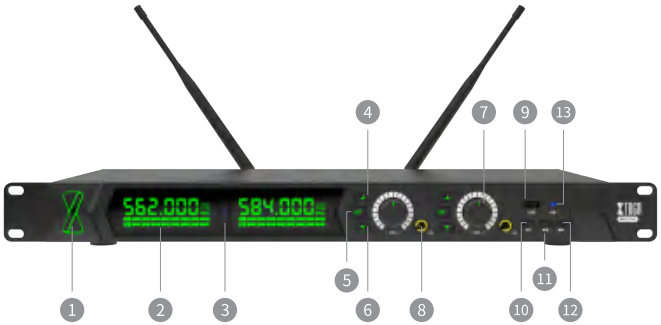
Before using this product, please read the manual carefully and keep it properly for future reference.

PRODUCT INTRODUCTION

This product is a wireless headphone monitoring system used in stage performances and audio broadcasting, to replace traditional complex audio monitoring equipment and achieve better monitoring results.

This product is preset with two sets of signal channels, totaling 200 frequencies. Adopting high-frequency transmission technology, it has good anti-interference and stability, improves signal-to-noise ratio and dynamic range, making the output sound source closer to the original sound.

SIGNAL TRANSMITTER FRONT PANEL



1. Power switch: Turn on the device when the backlight is on.
2. Screen: Real time display of device operation status.
3. IR window: Automatically matches the frequency of the receiver.
4. "▲" key: Switch frequency up.

- Output power (32 Ω): 2x35mW@1KHz
- Earphone load impedance: ⩾ 16 Ω
- Audio output: Φ 3.5mm stereo headphone socket
- Volume adjustment: Adjust the top knob
- Power supply: 3V/150mA
- Antenna: fixed 1/2 Λ

SAFETY AND USAGE ENVIRONMENT

1. Machinery and equipment should be kept dry, and should not be placed in high temperature, wet lakes, dusty areas, or in contact with liquid substances to avoid malfunctions.

2. To avoid fire and electric shock hazards, do not open the chassis.

3. Only use the power adapter provided by this machine, and confirm whether the connected power voltage is consistent with the adapter requirements. Using power adapters provided by other suppliers may damage this machine.

4. If you are not leaving the working machine for a short period of time, please turn off the machine and unplug the power adapter. Never leave the machine running.

Attention: Due to the continuous improvement of the product, the parameters may change without prior notice. The pictures may differ from the actual product, and the actual product should prevail.

- Frequency width: 250KHz
- RF stability: ± 0.005%
- Preset frequency band: 200 sets of channels are preset, with 2 zones set separately
- Operation method: infrared code matching
- Maximum offset: ± 48KHz
- Comprehensive frequency response: 50Hz~15KHz ± 3dB
- Harmonic radiation: ＜ 4nW
- Audio input: XLR Φ 6.35mm composite socket
- Audio output: Φ 6.35mm socket
- Earphone output: Φ 6.35mm stereo socket with adjustable volume
- Earphone load impedance: ⩾ 16 Ω
- Power supply: 12V/250mA
- Antenna: TNC socket (50 Ω)

RECEIVER PARAMETERS

- Oscillation mode: PLL phase locked frequency synthesis
- RF stability: ± 0.005%
- Operation method: infrared code matching
- Sensitivity: Offset=25KHz, when inputting 7dBuV, S/N ＞ 78dB
- Maximum offset: ± 48KHz
- Comprehensive S/N ratio: ＞ 94dB (1KHz-A)
- Comprehensive T.H.D: ＜ 3% @ 1KHz
- Comprehensive frequency response: 80Hz-15KHz ± 3dB

5. "SET" key: After pressing, the infrared indicator light flashes and the device emits a frequency signal (the infrared window of the receiver needs to be facing the device).

6. "▼" key: Switch frequency down.

7. Volume knob: controls the right side Φ 6.35 Interface volume level.

8. Φ 6.35 Interface: Monitor audio source output.

9. USB interface: Plays the audio source stored on the USB drive.

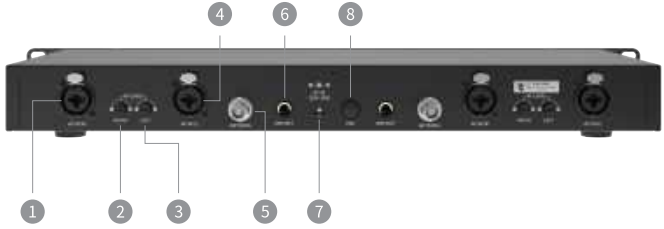
10. Play/Pause key: Short press to play and pause. When Bluetooth and USB input the audio source at the same time, the device prioritizes playing USB music, and unplugging the USB will play the Bluetooth audio source.

11. "◀◀" Key: Switch to the previous song.

12. "▶▶" Key: Switch to the next song.

13. Bluetooth and USB indicator light: After connecting Bluetooth, the blue light always lights up, while the USB connection flashes the blue light.

SIGNAL TRANSMITTER REAR PANEL



1. Left channel input: shared between balanced and unbalanced channels.

2. Right channel input: Balanced and unbalanced shared.

3. Left volume potentiometer: Adjust the volume level.

4. Right volume potentiometer: Adjust the volume level.

5. Antenna interface.

6. Φ 6.35 Output port: It can be connected to devices such as a mixer and speaker.

7. Power socket: Input voltage 12V.

8. PAD self-locking switch (fixed value attenuation key): Control the volume of 2 sets of Canon sound sources, press to attenuate the overall input volume by 15dB, and press to deactivate the volume attenuation.

RECEIVER CONTROL PANEL

1. Power switch and volume potentiometer: Turn on or off the power and adjust the output volume.

2. LCD screen: Display the working status of the device.

3. ON indicator light: Low voltage, low battery, red light on.

4. RF indicator light: When connected to the transmitter, the green light will turn on, and when not connected, the light will not turn on.

5. IR infrared signal window: Use this window to perform infrared frequency comparison with the receiver's IR window.

6. Mute button: Press the shield to output sound, and then press the side to turn on the sound again.

USE SETTINGS

1. Turn on the power switch of the receiver.

2. Press the "SET" button on the receiver to enter FM mode.

3. Use the "▲" or "▼" keys to select the appropriate frequency, and then press the "SET" key to confirm the frequency.

4. Turn on the power supply of the receiver and the battery compartment cover, align the IR window of the receiver closely with the IR window of the transmitter, and the frequency of the device will automatically match.

SIGNAL TRANSMITTER PARAMETERS

- Chassis material: metal panel and chassis
- Oscillation mode: PLL phase locked frequency synthesis
- Frequency band width: UHF 550.1~599.850MHz

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

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 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.

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

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.

Ant.	Atnenna Brand	Antenna Model Name	Antenna Type	Connector	Gain (dBi)	EIRP(dBm)	NOTE
1	N/A	N/A	External Antenna	N/A	-2.09	1.03	Antenna
2	N/A	N/A	External Antenna	N/A	-2.09	1.29	Antenna