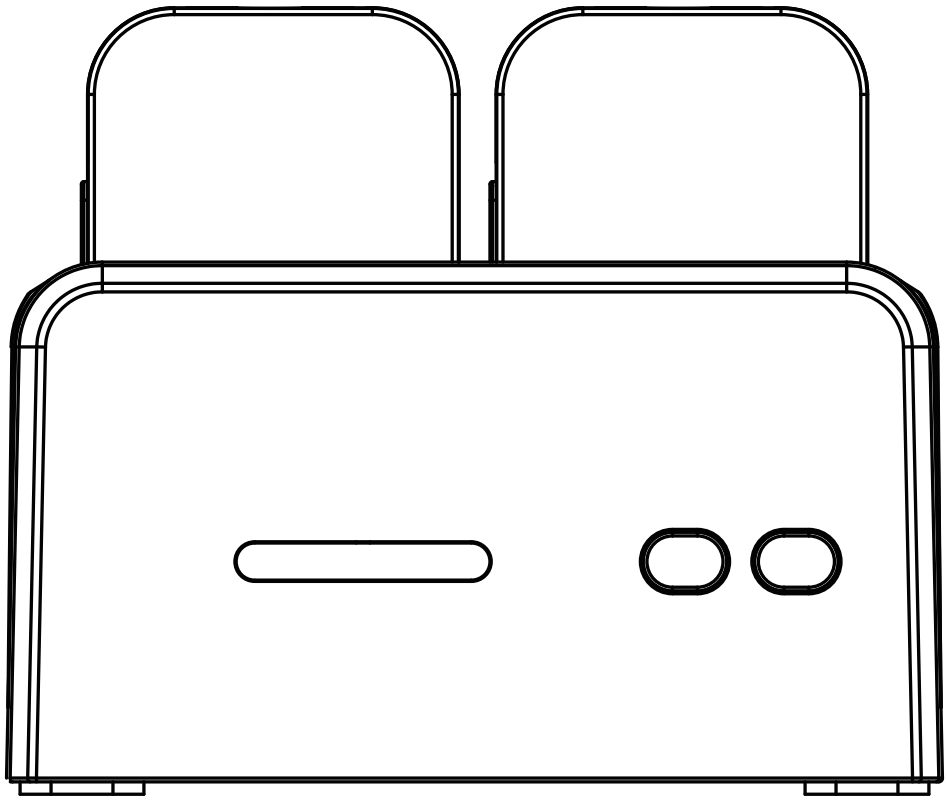
WS15 2.4GHz

Wireless Audio In-Ear Monitor
Transmission System

USER Manual



Product Overview

- Wireless Technology: Utilizes 2.4GHz wireless transmission technology, specifically designed for scenarios like stage performances, live streaming, and recording monitoring, providing a stable, low-latency wireless monitoring solution.
- Audio Quality: Features high-spec 24-bit/48kHz audio sampling with a frequency response of 20Hz~20kHz, delivering high-fidelity stereo sound quality.
- Range & Stability: Achieves an effective transmission range of up to 30 meters outdoors in line-of-sight conditions, ensuring stable transmission and strong anti-interference capabilities.
- Smart Connection: Equipped with an intelligent memory pairing function; after the initial pairing, devices automatically reconnect upon power-on, eliminating the need for repeated pairing.
- Mode Memory: The receiver supports working mode memory, automatically restoring the last used mode upon startup for a more user-friendly experience.
- Charging Case: The transmitter features a built-in charging case, capable of directly charging the receiver for enhanced convenience.
- Versatile Modes: Supports Left Channel, Right Channel, Stereo, and Mute modes to adapt to various monitoring requirements.
- Design & Battery: The receiver is lightweight and compact for burden-free wearing, while the transmitter offers long-lasting battery life, meeting the demands of extended performances and work sessions.
- Pass-through Charging: Supports charging while working without interrupting normal audio transmission, offering greater practicality.

Safety Precautions

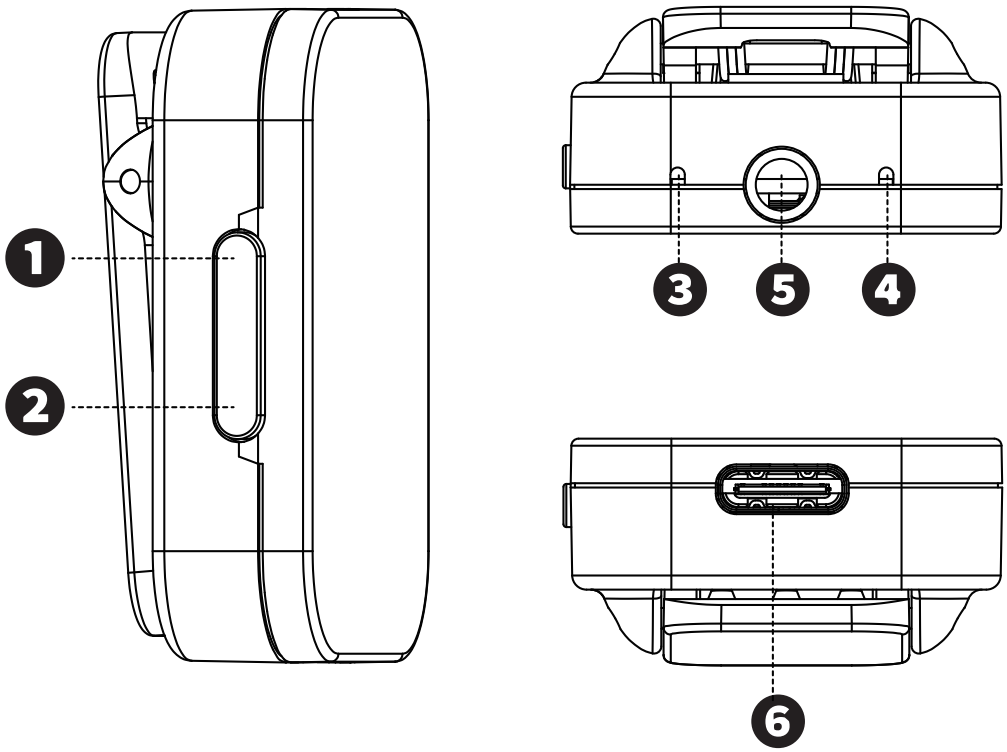
- Environment: Operate the device at room temperature in a dry environment. Avoid exposure to high temperatures, humidity, direct sunlight, and severe vibrations.
- Maintenance: Do not disassemble or modify the device. Unauthorized changes may damage the battery or cause safety hazards.
- Charging: Charge using a compliant 5V USB power source. Do not use unqualified or non-standard chargers.
- Hearing Health: Avoid monitoring at high volumes for extended periods to prevent potential hearing damage.
- Situational Awareness: Do not use this device while driving, walking, or in any situation requiring your full attention and awareness.
- Child Safety: Keep the device away from children to prevent accidental swallowing or entanglement.

Buttons and Ports Description

■ Receiver/RX

1.Pairing / Vol + Button: Short press to increase volume when powered on. Long press to enter pairing mode; the device will automatically exit this mode once paired with the transmitter.
2.Power / Vol - Button: Long press to power on. After powering on, short press to decrease volume, or long press to power off.
Button Combination: Short press Button 1 and Button 2 simultaneously to cycle through working modes: Left Channel / Right Channel / Mute / Stereo.

3.Status Indicator (L): Displays device working status, pairing status, and battery level.
4.Status Indicator (R): Displays device working status, pairing status, and battery level.



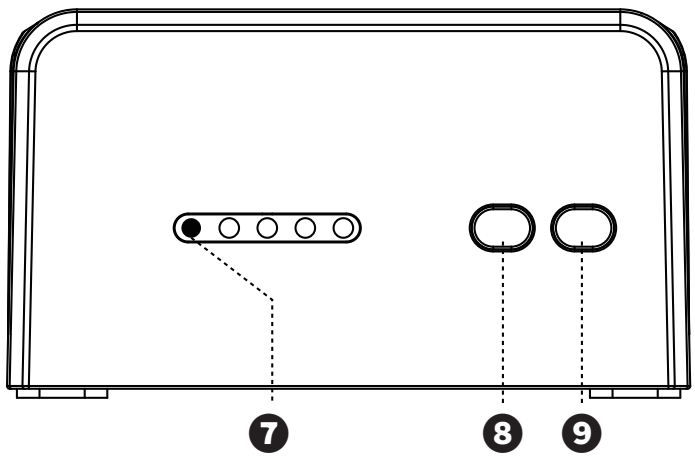
Indicator Lights 3 & 4 of the Receiver		
Indicator	**Light Status**	**Operational Status**
Indicator 3 (Connection & Signal)	Flashing	Disconnected
	Solid Green	Connected / Normal transmission
	Solid Red	Mute mode
Indicator 4 (Battery & Charging)	Solid Green	High battery (Sufficient power)
	Solid Red	Low battery (Needs charging)
	Flashing Red and Green	Charging

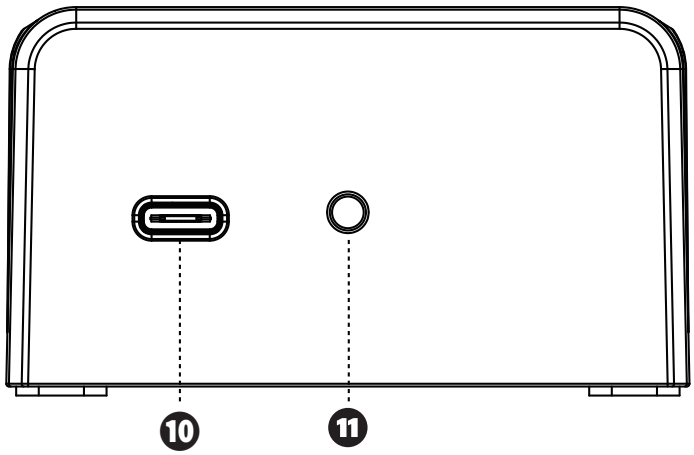
Note: The receiver can operate normally while charging, without affecting wireless transmission between devices.

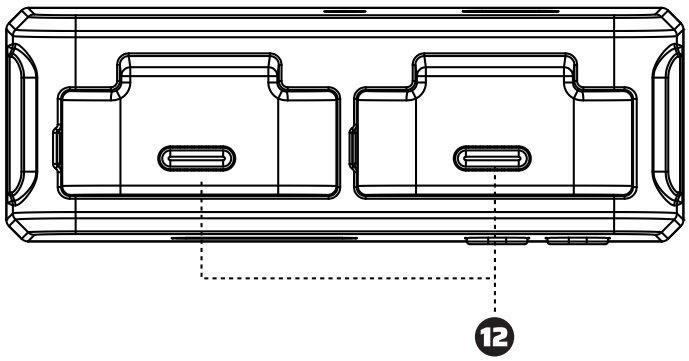
5. 3.5mm TRS Output Interface: A stereo audio output interface for connecting monitoring headphones. In left channel mode, both left and right channels output the left channel audio signal. In right channel mode, both left and right channels output the right channel audio signal.
6. USB Charging Port: Supports charging the receiver via the transmitter or an external power source.

■ Transmitter/TX

7. Status Indicator and Battery Level Indicators: There are a total of 5 indicator lights. The leftmost one is the status indicator, which displays pairing status and the current mode. The remaining 4 lights are battery level indicators. Each light from right to left corresponds to 25% battery level. They light up progressively as battery level increases and turn off progressively as battery level decreases.







Status indicator (light) of the transmitter	
Indicator Light Status	IndicWorking Mode ator Light Status
Green light steady on	Normal operation after power-on
Yellow light flashing	Receiver is pairing with transmitter; after successful pairing, the light turns to a steady green
Red light steady on	Mute (transmitter mute mode)
Off	Entering auto-shutdown mode; the transmitter will automatically shut down when the receiver is fully charged or after prolonged inactivity

Note: The transmitter can operate normally while charging, without affecting wireless transmission between devices.

8. Activation Button: Press briefly to activate the battery level indicator (to check remaining battery).In auto-shutdown mode, two quick short presses can completely power off the device.

9. Power On/Off & MUTE Button: Press and hold when the device is off to power on; the status indicator will light up.Press and hold when the device is on to enter auto-shutdown mode (status indicator turns off). In this mode, the transmitter will automatically shut down when the receiver is fully charged or after a long period of inactivity with no operation.
Press and hold again to exit auto-shutdown mode, and the leftmost status indicator will light up again.After powering on, a short press switches between normal operation and transmitter mute mode.

10. USB Charging Port: Used to connect an external power source to charge the transmitter and receive external audio signals.

11. 3.5mm TRS Input Interface: Stereo audio input interface for receiving external audio signals.

12. Receiver Charging Case: The transmitter has a built-in charging case. When the receiver is inserted, it will automatically be charged.

Friendly Reminder: When the device is not in use, please first activate the transmitter's auto-shutdown mode, then turn off the receiver, and finally insert the receiver into the transmitter for charging. If the transmitter's auto-shutdown mode is not enabled, the transmitter will not automatically power off after the receiver is fully charged.

Technical Specifications

Wireless Frequency Band	2.4GHz
Sampling Rate	24 bit/48KHz
Frequency Response	20~20KHz，+1dB/-3dB
Latency	15ms
Transmission Range	30 meters in open outdoor space without obstruction
Operating Frequency Range	2400MHz ~ 2483.5MHz
Maximum RF Transmit Power within Operating Band	9dBm（EIRP）
Rated USB Charging Input (Transmitter)	5V DC 2A
Rated Single-Port USB Output (Transmitter)	5V DC 500mA
Total Rated USB Output (Transmitter)	5V DC 1A
Rated USB Charging Input (Receiver)	5V DC 290mA
Battery Model	Receiver: 402030; Transmitter: 102050
Battery Capacity	Receiver: 200mAh (0.74Wh); Transmitter: 1000mAh (3.7Wh)
Nominal Battery Voltage	3.7V
Charging Time	Receiver: 1 hour; Transmitter: 1.5 hours

Operating Current	Receiver: 10mA; Transmitter: 28mA
Continuous Operating Runtime	Receiver: Approx. 16 hours; Transmitter: Approx. 32 hours
Receiver Charging via Transmitter	A fully charged transmitter can recharge a single receiver approx. 3 times
USB Interface Type	Type-C
Unit Weight	Receiver: Approx. 16g; Transmitter: Approx. 59g
Overall Dimension	75.6mm (L) × 26.1mm (W) × 63.5mm (H)
Included Accessories	1 × USB charging cable, 1 × 3.5mm audio cable, 1 × user manual