ACEMIC
M2

Multifunctional Digital Wireless In-ear Monitor + Microphone All-in-one System User Guide

Contents

Digital Wireless In-ear Monitor

Adopt UHF ultra-high frequency wireless stereo transmission technology

- Adopt UHF ultra-high frequency wireless stereo transmission technology
- The system adopts high-performance CODEC processing chip, 24bit/48KHz audio sampling rate to ensure the clarity and restoration of sound quality
- Ultra-high stereo separation greater than 60dB
- Both the transmitter and receiver have stereo and mono mode switching functions.
- Operating range up to 60 meters in an open, unobstructed and interference-free place

Digital Wireless Microphone

- Digital audio transmission technology
- Ultra-low audio delay
- 48KHz sampling frequency
- Digital ID code to solve the same frequency crosstalk interference
- The handheld transmitter can match the receiver through infrared frequency matching and user can do frequency tuning manually, and the transmission power is adjustable in two gears
- The receiver has adjustable ECHO reverberation and can display the battery power information of the transmitter in real time
- Operating range up to 50 meters in an open, unobstructed and interference-free place

The all-in-one system uses an IPS TFT display screen, which is beautiful and clear, and the system setting information is clear at a glance. The system is suitable for personal entertainment, indoor and outdoor live broadcasts, small stage performances, etc.

Product Accessories and Components

M2 Main System *1

Digital Wireless In-ear Monitor Receiver * 1 (Choose one)

Digital Wireless Microphone * 1

BNC Antenna * 2

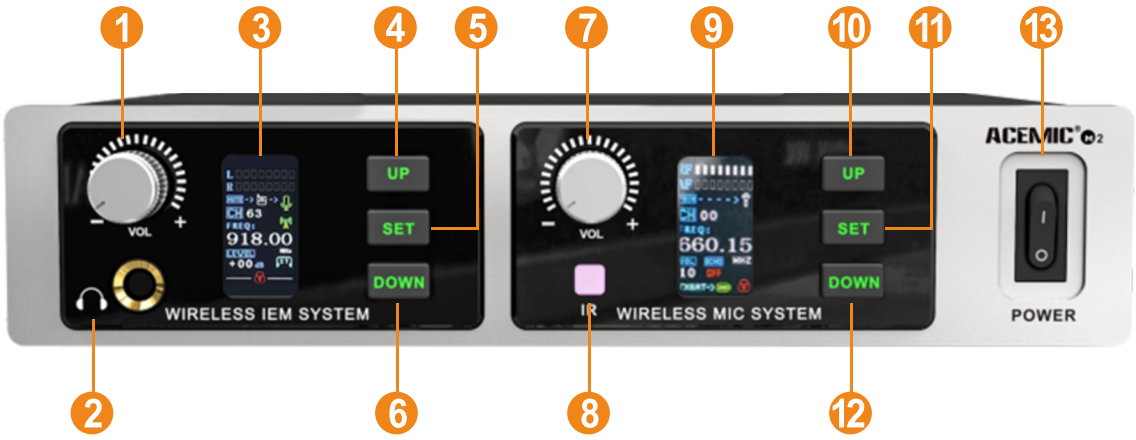
Headphone * 1

Adapter * 1

6.35 mm Stereo TRS Audio Cable * 2

6.35 mm Mono TS Audio Cable * 1

Front and Rear Panel for All-in-one System



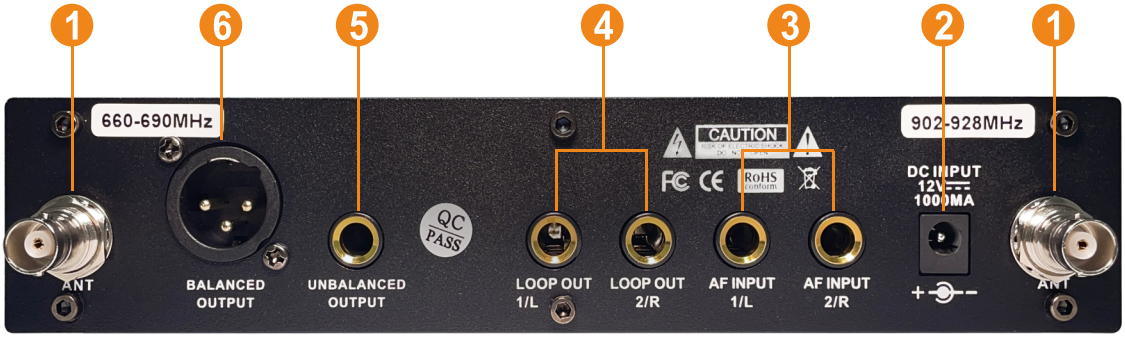
Digital Wireless In-ear Monitor Transmitter (left)

1. Volume Knob
2. 6.35mm Earphones Monitor Jack
3. TFT Display
4. Up button
5. Set button
6. Down button

Digital Wireless Microphone Receiver (right)

7. Volume knob
8. Infrared frequency light transmission window
9. TFT display
10. Up button
11. Set button
12. Down button
13. Power

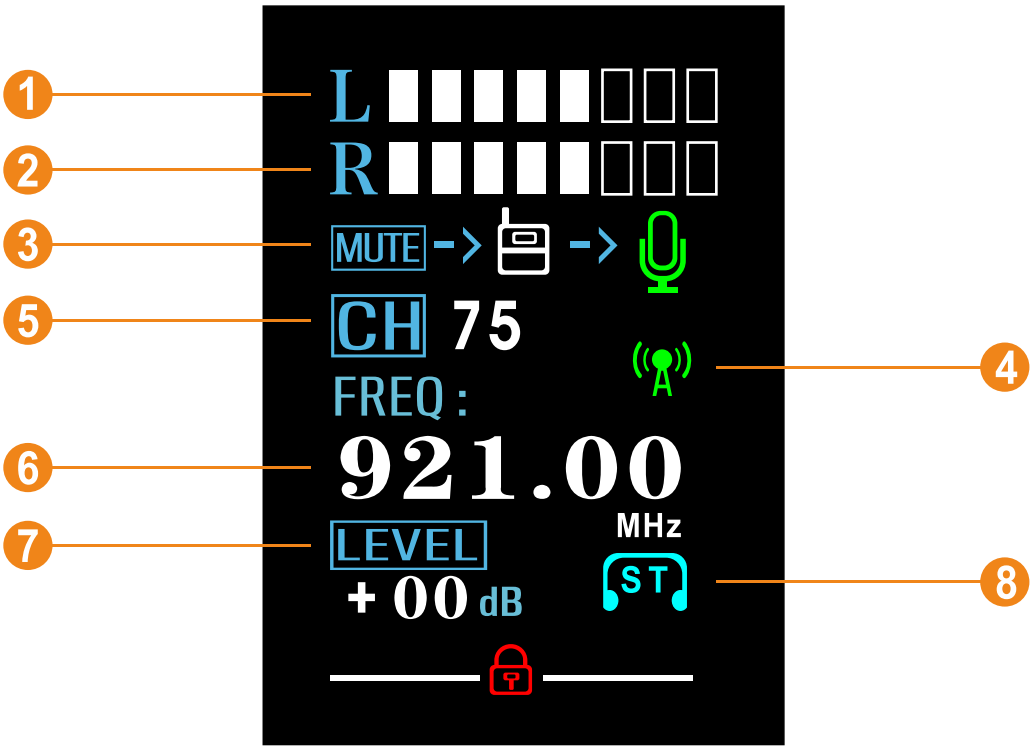
Front and Rear Panel for All-in-one System



1. BNC antenna interface: connect the included antenna
2. Power input jack
3. 6.35mm left and right channel input
4. 6.35mm left and right channel output
5. 6.35mm unbalanced audio output
6. XLR balanced output

Note: Since digital wireless in-ear monitor and digital wireless microphone may work in different frequency bands (depending on the actual product), please note that the antenna of the corresponding frequency band should be connected to the corresponding BNC antenna interface to avoid affecting the signal transmission.

Transmitter Display for Digital Wireless In-ear Monitor



1. Left channel volume indicator

2. Right channel volume indicator

3. Mute control indicator

4. Transmit indicator (green while it works well, gray when the transmit power is off)

5. Operating channel

6. Operating frequency

7. Input level gain/attenuation indicator

8. Stereo/mono working mode indicator

Function for Digital Wireless In-ear Monitor Receiver

1. Receiver antenna
2. Line output jack
3. Volume knob
4. Headphone jack
5. RF signal indicator
6. Down button
7. Power/Set button
8. Up button
9. Battery compartment (powered by two 1.5V AA batteries)

Function for Digital Wireless In-ear Monitor Receiver

1. SMA detachable antenna

2. Power

3. Headphone jack

4. Up button (volume adjustment, frequency setting)

5. Set button

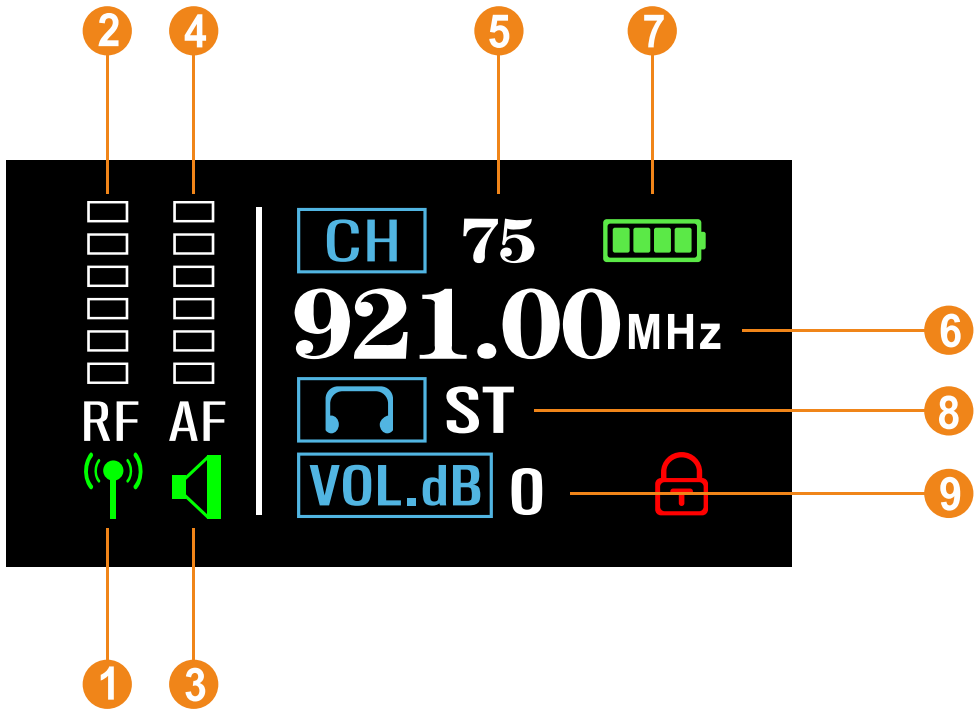
6. Down button (volume adjustment, frequency setting)

7. Battery compartment, for a 3.7V 14500 rechargeable lithium battery

8. Charging indicator (red light is on when charging, it will be off when fully charged)

9. TYPE-C charging port

Display for Digital Wireless In-ear Monitor Receiver



1. Matching connection status indicator, when the receiver and transmitter are matched and connected, it is green, otherwise, it is gray
2. RF signal strength indicator
3. Transmitter mute status indicator. When the transmitter is actively muted, it is red, otherwise, it is green
4. Audio signal strength indicator
5. Opearting channel
6. Operating frequency
7. Battery life indicator
8. Stereo/mono/receiver active mute indicator
9. Headphone volume setting indicator

Operation Instructions for Digital Wireless In-ear Monitor

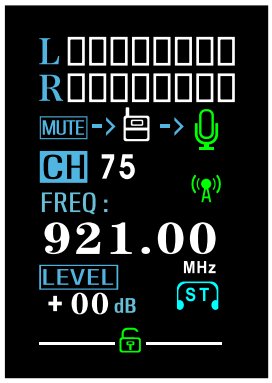
Transmitter

1. Power on/off

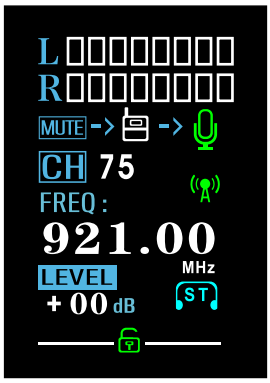
Power on: turn the power switch to 1 Power off: turn the power switch to 0

2. Function settings

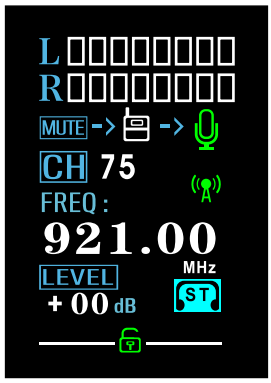
Press and hold the SET button for 1 second until the red lock mark at the bottom turns green and the channel number symbol CH is reversed, which means entering the channel number adjustment mode (as shown in PIC.1). Press the plus/minus button to adjust the channel number. Press the SET button again to switch to the input level gain/attenuation adjustment mode (as shown in PIC.2) or stereo/mono switching setting mode (as shown in PIC.3). Press the plus/minus button to make corresponding adjustments. After 10 seconds of no operation, the setting data is automatically saved and the lock mode is entered.



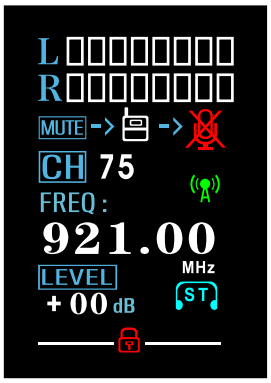
PIC.1



PIC.2



PIC.3



PIC.4

3. Mute/unmute operation

Double-click the SET button to mute, and double-click the SET button again to cancel the mute setting. When muted, it is shown in PIC.4

4. Transmitter power off/on

Triple-click the SET button to temporarily turn off the transmitter power. At this time, the transmitter and receiver will lose pairing, and the transmission indicator symbol will turn gray. Triple-click the SET button again to turn on the transmitter power again, and the transmission indicator will return to green.

5. Matching connection

Manually adjust the transmitter channel number to the same as the receiver channel number to automatically match the connection

Operation Instructions for Digital Wireless In-ear Monitor

Receiver

1. Power on/off

Power on: Long press the power button until the scroll bar in PIC.5 is finished, then release it to power on

Power off: Long press the power button for 1 second

2. Function settings

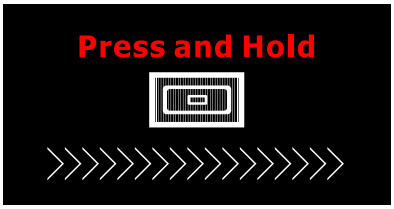
Tap the settings button. When the red lock mark turns green and the channel number symbol CH is reversed, enter the channel number adjustment mode (as shown in PIC.6), press the plus/minus button to adjust the channel number, and press the settings button again to switch to stereo/mono mode settings (as shown in PIC.7) or headphone volume adjustment mode (as shown in PIC.8), and press the plus/minus button to make corresponding adjustments.

3. Mute/unmute operation

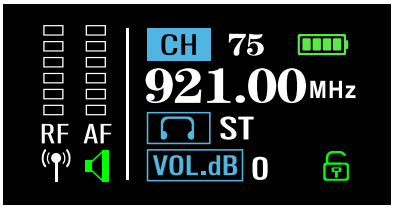
Double-click the settings button to mute, and double-click the settings button again to cancel the mute setting. When muted, it is shown in PIC.9

4. Matching connection

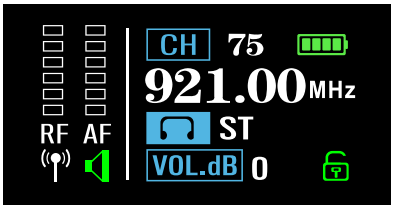
Manually adjust the channel number of the receiver to the same as the channel number of the transmitter to automatically match and connect.



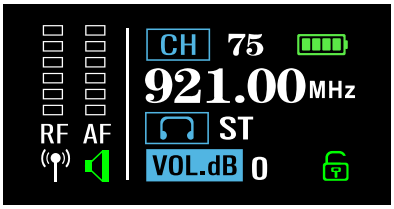
PIC.5



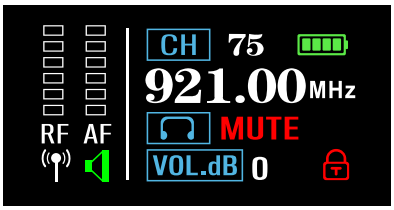
PIC.6



PIC.7



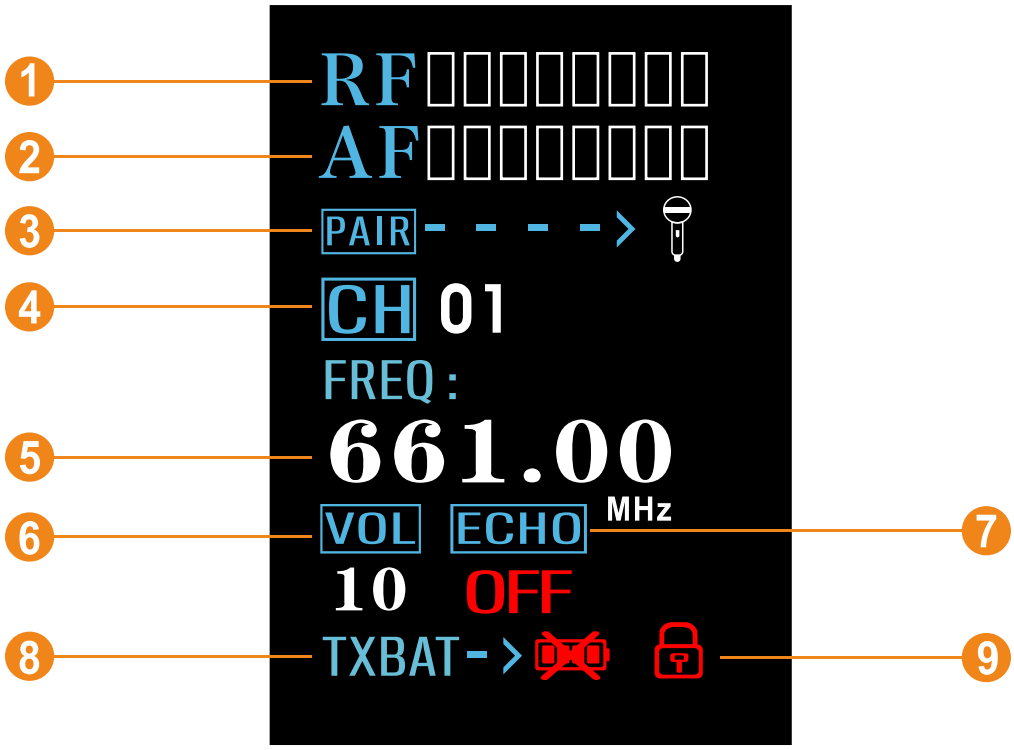
PIC.8



PIC.9

Digital Wireless Microphone Receiver Display

M2 Receiver Display



1. RF signal indication
2. AF signal indication
3. Infrared frequency indication (the mic icon will flash red and white to indicate that the receiver is performing infrared frequency indication)
4. Operating channel (32 presets)
5. Operating frequency
6. Current system volume level (1-16 levels adjustable)
7. ECHO setting (OFF and 1-5 levels adjustable)
8. Handheld battery life indication (will be displayed in real time after the transmitter and receiver are paired)
9. Lock/unlock icon (a red lock icon when the system is in locked non-adjustable mode, and a green unlock icon when the system is in unlocked adjustable mode)

Digital Wireless Microphone Transmitter Function

1. Sound pickup component: dynamic mic capule

2. Infrared frequency receiving window: align this window with the infrared data sending window of the receiver during infrared frequency operation. When data reception is successful, the display will flash twice

3. TFT display

4. Combination buttons (SET-UP-DOWN)

5. Power

6. Antenna tube tail (avoid holding here when using to avoid affecting signal power)

7. Battery sleeve

Digital Wireless Microphone Transmitter Display

1. Operating channel

2. Operating frequency

3. Transmitter RF power indicator: High power, green Hi ; Low power, yellow Lo

4. Volumel indicator: 1-8 levels adjustable

5. Battery life indicator: replace the battery in time when the red battery box is displayed

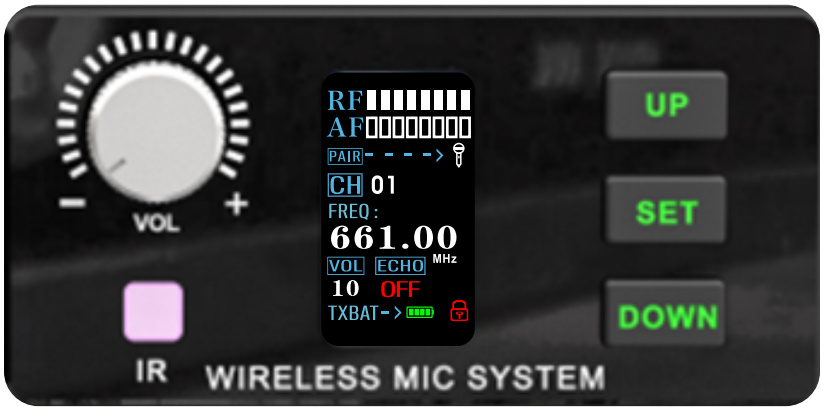
6. Lock non-adjustable mode and unlock adjustable mode indicator

Lock non-adjustable mode: red lock

Unlock adjustable mode: green unlock

Operation Instructions for Digital Wireless Microphone

Operation for Receiver



Operation

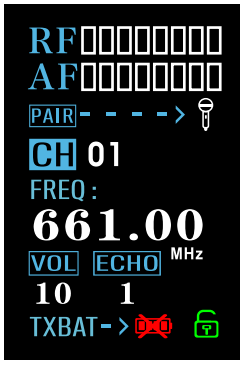
1: Press the SET button to enter the unlocked adjustable mode and the channel number adjustment mode at the same time. The CH graphic is reversed (as shown in PIC.1). At this time, press the UP/DOWN button to adjust the channel number

2: Press the SET button again to enter the system volume setting mode. The VOL graphic is reversed (as shown in PIC.2). At this time, press the UP/DOWN button to adjust the volume

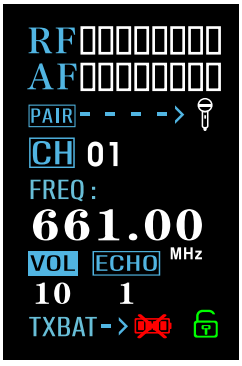
3: Press the SET button again to enter the ECHO setting mode. The ECHO graphic is reversed (as shown in PIC.3). At this time, press the UP/DOWN button to adjust the ECHO level

4: Infrared frequency binding operation

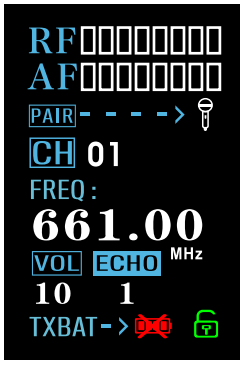
Press the SET button for more than 1 second, the receiver will enter the infrared frequency binding mode, the PAIR graphic is reversed, and the microphone graphic flashes red and white (as shown in PIC.4)



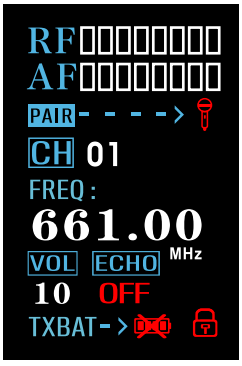
PIC.1



PIC.2



PIC.3



PIC.4

Operation Instructions for Microphone Transmitter

PIC.1

PIC.2

PIC.3

1. Power on/off operation

Power on/off: long press the power button for 1 second

2. Combination button description

Rotate and unscrew the battery sleeve, long press the SET setting button to enter the unlocked adjustable mode, and then lightly press the SET setting button again to select the corresponding

adjustment menu (the corresponding graphic is reversed when it is in the selected state (adjustable mode)), press the plus and minus buttons to adjust

The adjustment mode sequence is: CH channel number adjustment mode (as shown in PIC.1)--->RF high and low power adjustment mode (as shown in PIC.2)---> VOL volume adjustment mode (as shown in PIC.3)--->CH frequency band number adjustment mode (as shown in PIC.1)

Technical Parameters

In-ear Monitor Transmitter

Carrier frequency range: 902-928MHz

(depending on local regulations)

Modulation mode: integrated mode

Comprehensive T.H.D: <0.5%@1KHz

Comprehensive frequency response:

20Hz-20KHz (±3dB)

Audio output: 6.35mmφ

balanced socket x2 (LOOP OUT)

Audio input: 6.35mmφ balanced socket x2

Audio input level: +10dBu(max)

Front panel earphones output power:

80mW@32Ω THD+N = 1%

Power supply: DC 12V/1000mA

Display: IPS TFT display

Dimensions (mm): 210(W) x 45(H) x 180(D)

In-ear Monitor Bodypack Receiver

Carrier frequency range: 902-928MHz

(depending on local regulations)

Demodulation mode: integrated mode

Audio sampling: 24bit/48KHz

Comprehensive T.H.D: <0.5%@1KHz

Comprehensive frequency response:

20Hz-20KHz (±3dB)

Stereo separation: ≥60dB @1KHz

Output socket: 3.5mmφ stereo earphones socket

Headphone output power: 80mW@32Ω THD+N = 1%

System latency: 6ms (typical)

Frequency matching mode: manually

Power supply: one 3.7V 14500 lithium battery

Operating range: 60 meters (open, unobstructed and interference-free place)

Display: IPS TFT display

Dimensions (mm): 64 (width) x 96 (height) x 21 (depth)

Technical Parameters

Mic Receiver

Frequency range: UHF 660-690MHz

(subject to local regulations)

Channel: 32 preset channels

Demodulation mode: pi/4DQPSK

Transmission latency: <5ms

Sampling rate: 48KHz

Frequency response: 60Hz-15KHz±2dB

Distortion: <0.5% (1KHz)

Signal-to-noise ratio: >92dBm

Receive sensitivity: -93dBm

Displayl: IPS TFT display

Power supply: DC 12V/1000mA

Handheld Transmitter

Frequency range: UHF 660-690MHz

(depending on local regulations)

Transmitting power: 10mW

Modulation: pi/4 DQPSK

Frequency switching: infrared frequency matching

Microphone core type: dynamic coil

Material: metal tube

Power supply: two 1.5V AA batteries

Displayl: IPS TFT display

Continuous use time: >5 hours