True diversity
wireless microphone

OPERATING INSTRUCTION

User’s Manual

Safety precautions

▲ Please read all safety and operation instructions carefully before using this machine.
▲ Please pay attention to the danger warning mark "⚡" and the operation process warning on the equipment.
▲ The use and storage of the mach ine requ ire good vent i lat ion cond it ions, and the min imum gap around the equ ipment is more than 10 CM.
▲ Do not place exposed flame sources on the equipment, such as lit candles.
▲ Please place the machine in a dry place to avoid rain or contact with wet objects to ensure safety.
▲ Do not let the wire end, iron powder, water and so on into the chassis to avoid fire.
▲ Please correctly wire according to the standard of the machine connection line, designated power supply and construction method.
▲ When the battery is discarded, please put it into the designated recycling bucket.
▲ If the machine falls or foreign matter enters the machine, please do not continue to use, otherwise there will be an electric shock danger.
▲ Non-professionals are strictly prohibited from opening the cover for maintenance, otherwise they will lose the right to warranty. If there is any problem with the product, please contact the dealer or our technical and after-sales service center.
▲ In case of any change in the contents of this manual, the actual product shall prevail and no further notice will be given.

Product configuration list

Receiver..1
transmitter(handheld)..2
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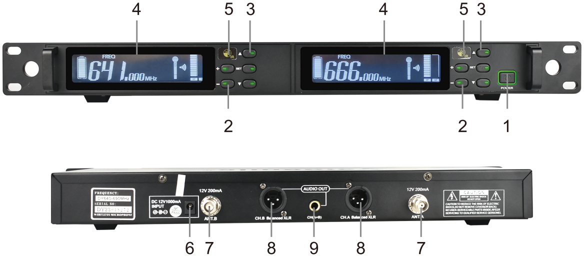
1. Characteristics of dig ital p ilot system

1. The new audio circuit structure has delicate high sound and strong middle and low frequency, especially in the details of sound Perfect performance. Super dynamic tracking capab i l ity makes it easy to p ick up and re lease sound at a d istance or c lose range.
2. The new concept of digital pilot technology completely solves the phenomenon of mutual frequency crossing, and never crosses frequency !
3. Automatic search for interference-free channel function, easier installation.
4, the maximum output volume can be freely limited, the range of adaptation is wider.
5. UHF band, PLL (PLL) frequency synthesis.
6, 100 x 2 channe ls with a channe l interva l of 250 KHz.
7. True diversity super heterodyne secondary frequency conversion design, with extremely high receiving sensitivity.
8. The RF part adopts multi-level high-performance dielectric filter, which has excellent anti-interference capability.
9. The first intermediate frequency uses acoustic filter, and the second intermediate frequency uses three-stage ceramic filter,which greatly improves the anti-interference capability.
10. The microphone uses the 5th battery of YiGou, and the duration is up to 8-12 hours.
11. The microphone adopt s a unique voltage boost design, and the overall performance of the hand microphone will not be affected by the decrease of battery power.
12. Ideal operating radius up to 150 meters, suitable for a variety of requirements.
13. It has infrared automatic frequency matching function, which can synchronize the microphone to the working channel of the receiver quickly.

2. Name and function of front and rear panels of receiver



1. Power switch button: used to turn on or off the power supply of the device
2. Volume adjustment button: used to adjust the volume of the receiver
3. Set the adjustment button: used to set the receiver frequency and enter the automatic scanning mode and frequency matching mode
4. LCD screen: display the current working frequency, microphone status, etc
5. Infrared emission window: IR infrared frequency window

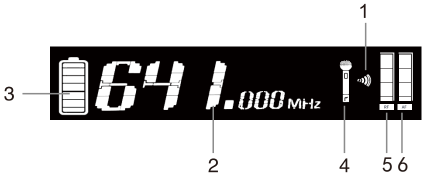
6.12VDC power input: power socket, connected to the supplied power adapter

7.A and B receiving antenna socket: Insert the two antennas that come with it into this interface respectively

8. Channel separate balanced output jack: used to connect balanced audio equipment

9.6.3 Unbalanced mixed output: audio output interface that mixes channels A and B

3. Receiver display instructions



1. Microphone status display
2. Frequency display
3. Battery capacity of synchronous transmitter
4. Display the microphone logo when holding or carrying a bag
5.RF antenna receives the signal
6.AF Audio signal strength

4. Transmitter

1. Web head
2. Channel display window
3. Power switch
4.IR infrared frequency window
5. Battery compartment
6. Capacitive head/audio line inp
7. Antenna
8. Battery cover

5. Menu operation instructions

1. Infrared Frequency Matching: When the receiver and transmitter are in normal display mode, briefly press the "SET" button for the corresponding receiving channel for 2 seconds. The receivers display will show an "IR" progress bar. The infrared frequency matching process begins. Align the transmitters infrared window with the receivers. Once the transmitter completes the reception, the frequency will be updated to match the receivers. The receivers backlight and text will turn white, indicating that the infrared frequency matching is complete. The receiver will automatically save the settings and exit the frequency matching operation.

2. Channel frequency setting: Press "UP" or "DOWN" to add/subtract the frequency group of the corresponding channel for selection. After selecting, press "SET" key to confirm and exit.

3. Automatic search for idle channel function: Long press the "SET" key for more than 2 seconds and then release it. "SCAN" will be displayed and press the frequency modulation " ▲ ” perhaps frequency modulation " ▼ ” Key, the host enters the automatic search for interference- free channel function. When the host searches for an interference-free channel, the "IR" progress bar will be displayed. At this time, the handheld should be turned on, and the frequency receiving window of the handheld should be aligned with the "IR" transmitting window of the host to carry out infrared matching Frequency operation is sufficient.

4. Enter the special function menu: Long press the "SET" key for more than 2 seconds and then release it. "SCAN" will be displayed. Then press the "SET" key briefly to enter the special setting mode, and then press the frequency modulation "▲" Or frequency modulation" ▼ " Key switch submenu, "ID ON" is to open the digital pilot, "ID OFF" is to turnoff the digital pilot. Users can adjust according to actual use conditions. It is recommended to use the default setting.

Function Introduction: "ID ON" is the setting used in normal mode, where the host can only use the microphone that was last successfully frequency-matched. "ID OFF" is the test mode, where the host can receive any transmitter with the same frequency as its own. This menu item is recommended not to be changed to prevent frequency interference.

5. Lock and unlock the host: In the on state, hold down the "SET" key for more than 2 seconds and then release it. It will display "SCAN" and press it four times briefly Press the "SET" key to enter the lock and unlock mode, and press the frequency modulation"▲ " Or frequency modulation " ▼ " To switch the sub-menu, " LOC OFF" is unlocked and "LOC ON" is locked. If the main unit is locked, it will display " " 🔒 ", If unlocked, press down twice to lower the frequency" ▼ ”Key unlock, host " 🔒 "The symbol will not be displayed. After the lock is added, all the keys except the power switch are locked.

6. High and low power: In the on state, long press the "SET" key for more than 2 seconds and then release it. It will display "SCAN". Then press the "SET" key three times to enter the high and low power setting mode, and then press the frequency modulation " ▲ " Or frequency modulation" ▼ " The key switch submenu, "F1-HH" is the highest power, "F1-LL" is the lowest power. "F1-H" is the second highest power, "F1-L" is the low power, after selecting it, you need to re-frequency to take effect.

6. Technical Parameter

Wireless receiver

Frequency range	640-690MHz
Adjustable number of channels	100 X2
Oscillation	Phase Locked Loop Frequency Synthesis (PLL)
Frequency stability	±10ppm
Receive Mode	True diversity superheterodyne secondary frequency conversion
pilots mode	Digital Pilot
Audio frequency response	20-20000Hz
harmonic distortion	⩽ 0.5%
Signal to Noise Ratio	⩾ 50dB
Audio output	Balanced output and mixed output
receiver sensitivity	⩽-100dBm
Power specifications	12VDC/2A
size	426*230*50(L*W*H)MM

emitter

Frequency range	640-690MHz
Adjustable number of channels	100 X2
Oscillation	Phase Locked Loop Frequency Synthesis (PLL)
Harmonic Suppression	-30dB
Modulation Type	Frequency modulation (FM)
Frequency modulation method	Infrared frequency matching
Maximum offset	± 45KHZ
RF power output	3-30mW
Pickup head	moving-coil
Power supply mode	2 AA batteries
BATTERY LIFE	About 8 hours

7.Fault and solution debugging

emerging questions	resolvent
No sound : (Status : receiver RF display is not lit)	◆ Check whether the power switch of transmitter and receiver is in "ON" (on) position. ◆ Check whether the positive and negative polarity of the battery is reversed. ◆ Check the antenna connection of the receiver.
No sound:(Status: Receiver RF shows normal, "AF" shows normal)	◆ Check that the receivers volume knob is in the minimum position. ◆ Check that the connection between the receiver and the amplifier is correct.
No sound:(Status: Receiver "RF" display is normal, "AF" display is abnormal)	◆ Check that the receiver power supply is turned on. ◆ Change the pickup rod of the transmitter if necessary.
Connect the transmitter and receive a noisy signal or interference from external signals	◆ Check that the battery is securely installed. ◆ Exclude nearby radio frequency interference sources. ◆ Two transmitters may be using the same frequency. Look for and turn off one of them. ◆ The signal may be too weak. Adjust the antenna position to get as close to the transmitter as possible. ◆ Change to another channel.
After the transmitter is turned off, the receiver has noise	◆ Exclude sources of radio frequency noise. ◆ Re-adjust the receiver antenna position.
The launch vehicle could not be launched	◆ Replace the battery.