

Auto-channel-selecting
Infrared function



Professional Wireless Microphone Receiver

USER GUIDE

Professional Wireless Microphone Receiver

UHF-399

Thankfulness on purchasing our products. Please read this user guide carefully before using, just to ensure the microphone could be performed optimally

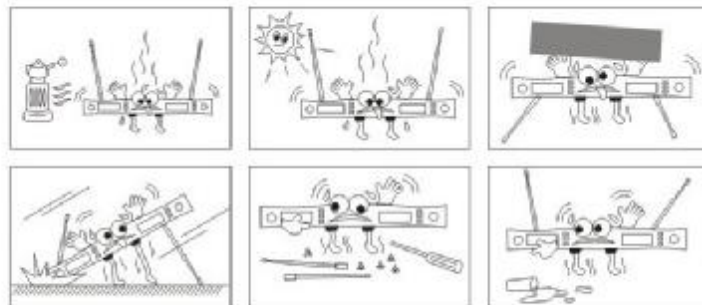
Welcome and thank you for purchasing our wireless microphone system! With years experience to producing wireless microphone system, our crews are confident to say we are the expert of manufacturing wireless microphone system. Our products are suitable for KTV room, karaoke stage and also school, showplace, stadium, and so on. Our products are convenient to operate, and of stably great quality. So they are widely favoured by our customers. We promise highly of first class quality, and also first class service. Our professional technician crew is always ready to help you with any technical questions!

Warning: Beware of electric shock fine; machine must be kept away humid conditions!



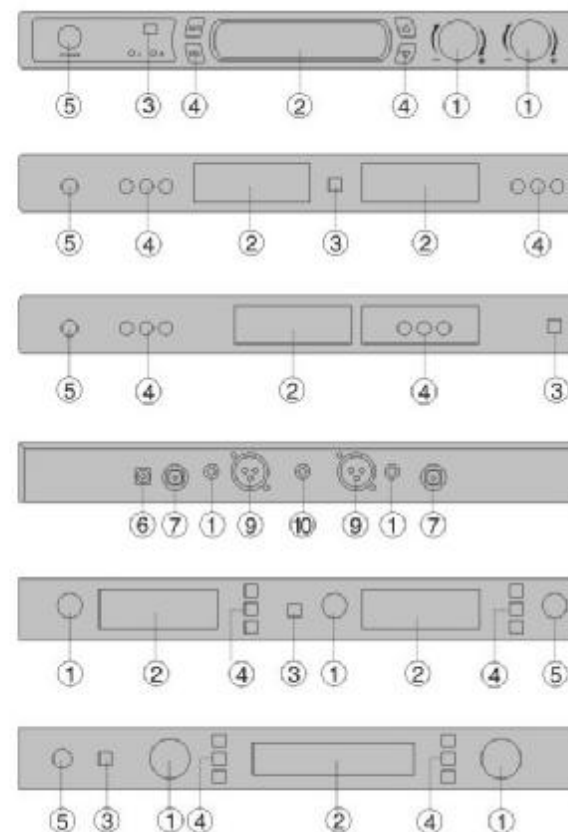
Strictly readers are told

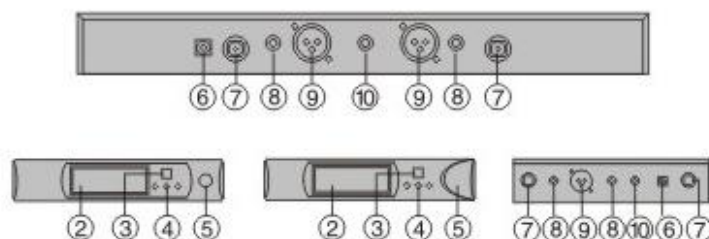
- 1.read the user guide-read carefully about safety and manipulation requests.
- 2.keep the manipulation introductions-please keep this manual for further need of safety and manipulation requests.
- 3.beware of the warnings-please notice the warnings for the machine while operating.
- 4.follow the denotements-please follow the denotements while operating.
- 5.accessional devices-only accessional devices from original producers of the machine are required.
- 6.humidity cautions-keep the machine away from humid conditions
- 7.aeration-please keep the machine in well ventilated conditions at all time, there should be at least 5cm clearance around the device.
- 8.heat source-please keep the devices away from heat sources, including, radiator, heater, stove, etc
- 9.power supply-please utilize the labeled voltage on the device.
- 10.no exposed fire should be no the device e.g. flaming candles
- 11.please do not litter the batteries, dispose them into the appointed place when they are fully used.
- 12.no liquid or weights should be on the device, no water dripping or splashing onto in to the device.
- 13.the device is also suitable in torvied zone, and variable zone.



Do not operate our baby of the situations as above! Only professionals can disassemble and assemble the system!

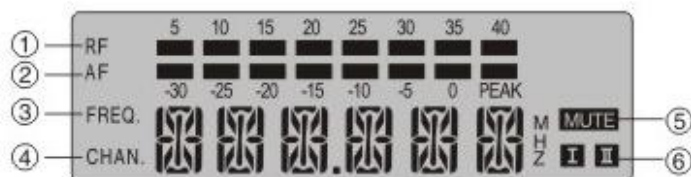
Introductions for the wireless receiver





1. Volume knob
2. LED displayer: channel, mute, receive-channel frequency, radio frequency, etc
3. Infrared channel-select window: send the channel parameter to the transmitter, working in "SET" button
4. three function keys: pre "SET", go to circular-selection menu, pre "▲" "▼" to change the menu state, press "SET" again to activate the setting.
5. Power on-off: Press the on-off, till LCD shows on the on-off 3sec. again, LCD shows off, for the Power is off
6. power socket: DC 12V 500mA power inputs socket, central electrode of the socket connects to positive pole.
7. antenna jack
8. noise elimination control: counter clock wisely, to turn down receive-sensitivity, zoom in receive-distance, but strengthen anti-jamming function, rice versa.
9. audio balance out: suitable for long-distance connection, capable to knock down the noise caused by line-connection.
10. audio mix out: send out one mixed signal by two.

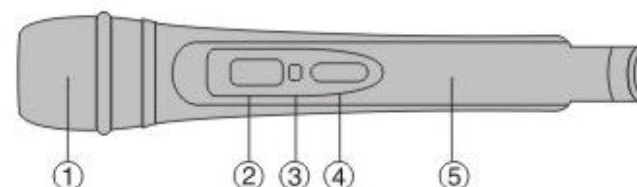
Introduction for the LCD of the receiver



1. 8-level RF display: signal strength of the receiving frequency.
2. 8-level AF display: signal strength of the audio frequency.
3. frequency menu display: when the indicator is on, current service frequency is show by the last 6 digits.
4. channel menu display: when the indicator is on, current service channel is shown.
5. mute display: when the indicator is on, frequency signal is not received.
6. channel display: dynamic display for the current auto-selected atenna channel, **I** shows channel A, **II** means channel B.

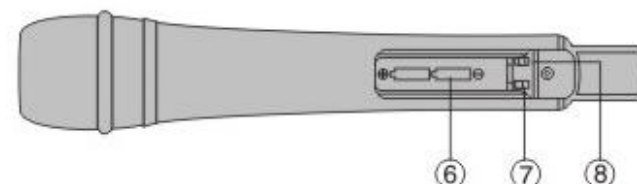
Specifications of the hand mike

Introduction for the hand microphone



1. Sound receiver: steel netting and sound head module
2. LCD: service channel and battery
3. infrared channel selecting window: send the channel parameter to transmitter, working in the "SET" key of the receiver
4. 3-step on-off: turned-off goes downwards, mute stays middle, turned-on goes upward.

Caution: if you want the microphone works mute during in use, had better set the switch at middle rather than turning off, Switch downwards to turn off after use.



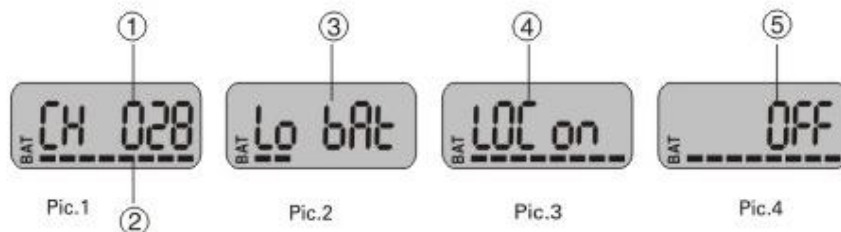
5. pipe body: out built batteries, emission circuit board, inbuilt transmitting antenna after body
6. battery cage: 2 1.5V alkaline batteries (please take off the batteries, not in use for a long time)
7. high-low RF switch (located inside the battery cage)

Specifications of the hand mike

8. lock key (located in battery cage): used to lock the power on-off switch upwards go to "ON", at the time outside power switch shaos off, the microphone is still working at mute, but the transmitting mike remains transmitting state.

Caution: This switch is available to keeping non-professional from shutting down the mike by mistake channing in use (because unexpected turned-off 2-3 sec delay)

Introduction of hand mike LCD



1. channel display: current service channel
2. 8-level battery volume display: when the last 2-level starts displaying, full battery is required.
3. please put on full-changed battery when display as pic-2
4. when lock key is on with power switch off, display, as pic-3, which means transmitter is locked, mute function is on while power off

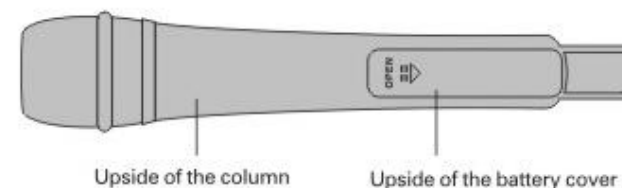
Specifications of the hand mike

Manual for handheld transmitter

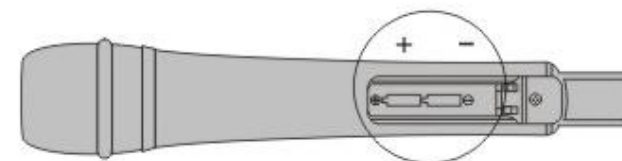
Channel battery volume. If service channel needs to change, receiver's channel should be changed firstly. Then aim up the infrared windows of transmitter and receiver, and the operate channel-selecting by hitting "SET" in receiver, klew channel para meters will be sent to the transmitter.

Manual for handheld transmitter

1. hold the column on upside, press the battery cover on upside, which is found right below the sphere protect-net slide down the battery cover, the battery cage will expose.



2. Put two new 1.5V alkaline battery on. Make sure polarities are well set.



Caution: do not misset polarities, it may alamage internal electronic components of transmitter

3. Put on the battery cover again

Channel-selecting and other special functions of the receiver

Select channel automatically with infrared

1. turn on the receiver: press the power on-off and hold on till LCD lights up.
2. select channel(or frequency) by pressing "▲" or "▼" then press "SET" to ensure the selection.
3. turn on the mike, press "SET", LCD will display like pic 1, then aim the channel-selecting window of the mike of ACT window of the receiver, till LCD displays like pic2, channel is well-selected.
4. display like pic3, which means infrared is sent but not yet selected by any channel, so press "▲" to select channel one more time.



Pic.1



Pic.2



Pic.3

Switch channel display to frequency display

1. turn on the receiver: press the power on-off and hold on till LCD lights up.
2. press "SET" twice, display like pic.4
3. press "▲", sparkle like pic.5
4. press "SET" to ensure, press again, go back to frequency display state, like pic.6



Pic.4



Pic.5



Pic.6

Receiving machine channel-selecting and other special functions of the receiver.

switch frequency display to channel display

1. turn on the powder of the receiving machine: press the powder button the LCD light is bright.
2. Press "SET" continuously for three times. Show it picture 4
3. Press "▼" button, appear "picture 3" and flash
4. Press "SET" to ensure, press it again and then it will leture to he situation of frequency display.

Lock the choosen channel

This locked function can be used when the leceiving machine is adjusted. When the locked function is on, the three function buttoin in the leceiving machine ponel would be locked, in order to prevent in on professional presonsmistake work.

Operotion steps below

1. turn on the power of receiving machine: press the power button, LCD light is bright.
2. Press "SET" continuously for three times, appear picture 7
3. Press the "▲" button to ensure and finish the fucation of locked channel.

turn off the locked function

1. Turn on the powder of the receiving machine; press the powder button and LCD light is bright.
2. Press "SET" button for once, appear picture 8
3. Press "▼" button, appear "picture T and flash
4. Press "SET" to ensure, finish the funlation of unlocking.



Pic.7



Pic.8

Operation method and attentions

Operation method:

1. Connect the audio system well;
2. Set the volume of the receiving machine and the loudspeaker to mix;
3. Turn on the power of the audio system from backing stage to backward stage;
4. Turn on the power of the transmitter;
5. Adjust the audio effect of the audio system: firstly, adjust the volume of the receiving machine to the middle point, turn on the microphone, talk directly forward the microphone, fit the volume secondly, adjust the tone, volume controller carefully and make the voice clear, the volume suitable. Add the phone and have the "on show" process;
6. If the wireless receiving machine system has some problems. Please reference this function have troubleshooting and solve the problem. If the problem is not in the troubleshooting. Please once the professional to solve it or negotiate with the franchiser;
7. After using, please turn off the power of the transmitter, then turn off the power of all the audio system from backing stage word backward stage.

Attentions

1. The erect location of the antenna effect the reception effect of the receiving machine directly, so take attention to the installation method. It is the most important principle that keep the distance between the microphone and the receiving machine shortest.
2. Avoid putting the receiving machine near the computer or other equipment which can produce RF signal.
3. Avoid putting the receiving machine in the orlop of the DB, exclude the installation antenna from distance.
4. This receiving machine system can fill 200 microphone at the same time, and it could not disturb each other. If need to be adjusted different channels by professional.
5. When some wireless systems are used at the same time, please take attention to the setting of "SQ" of the receiving machine. The lower the sensitive is the shorter the capacity of disturbance could be!
It is better that the transmit phone is short. It can save the electronic and decrease the jamming at the same time.

Problem & Solution

troubleshooting

Some common problems and their solutions are identified in the table below. If you are unable to solve a problem, Please contact your dealer for solutions.

Situation	Solution
No voice;(situation: the receiving machine RF display can not come on)	• Check the transmitter and the receiving machine, see whether it is on the play of "NO" • Check whether the "negative" and the "positive" pole of the battery is confusing • Check the connecting solution of the receiving machine and the aerial. • Make sure that there is no block between the aerial and the transmitter.
No voice(situation:RF display is normal; AF display is normal)	• Check whether the voice re knob of the receiving machine is on the lowest place. • Check whether the connecting between the loudspeakers of the receiving machine are normal.
No voice(situation:RF display is normal; AF display is un-normal)	• Check whether the power of the transmitter is open • Exchange the mike of the transmitter when it is necessary
Put through the transmitter, there is some noise or some interruption noise in the receiving signal	• Check whether the battery is tight enough. • Eliminate the RF source of the disturbance nearby. • Check the connecting situation, if using guitar or other musical instrument. • If both of the transmitters are using the same frequency, check it and close one of them. • maybe the signal is too infirmness, adjust the place of the antenna more it as near the transmitter as possible. • Replace other channel.
There is some noise, after closing the transmitter.	• Adjust the sensitivity button of the transmitter, the "SQ" button. • Eliminate source of noise of RF. • Adjust the place of the receiving machine or the place of the antenna over again.
While the showplace is moving, the voice from the transmitter may get lost sometimes.	• Adjust the sensitivity button of the transmitter; the "SQ" button. • Locate the receiving machine over again and have the "on-show" experiment. Observe the RF display. • If you find some voice lost, tag the point and avoid this point when performing.
Can not open the transmitter.	• Change the battery of the transmitter.

Technology specification

System Parameter:

Work frequency: ——— 510-690MHz
Modulation mode: ——— broadband FM
Channels: ——— 200
Channel frequency: ——— 250KHz
Frequency stability: ——— $\pm 0.005\%$
Dynamic bound: ——— 100dB
Max excursion: ——— $\pm 45\text{KHz}$
Frequency response: ——— 60Hz – 18KHz($3\pm\text{dB}$)
S/N: ——— $> 105\text{dB}$
T.H.D: ——— $\leq 0.5\%$
Operation distance: ——— about 100m(under the situation of no interruption)
Working environment temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$

Receiving machine index:

Receiving machine mode: — superheterodyne
IF: ——— 110MHz, 10.7MHz
Antenna receive: ——— BNC/ 50Ω
Sensitivity: ——— $12\text{dBuV}(80\text{dB S/N})$
Sensitivity adjustable range: 12-32dBuV
Erratic control: ——— $\geq 75\text{dB}$
Max output frequency: ——— $+10\text{dBV}$

Transmitter index:

Antenna: ——— hand microphone has on in built helix antenna
transmitter 1/4 wave-length flange like antenna
Output frequency: ——— max frequency 30mw; min frequency 3mw
Erratic control: ——— -60dB
Power supply: ——— 2 1.5.v alkaline batteries
Battery vitality: ——— about 10 hours under normal frequency transmission,
about 15 hours under low frequency transmission.