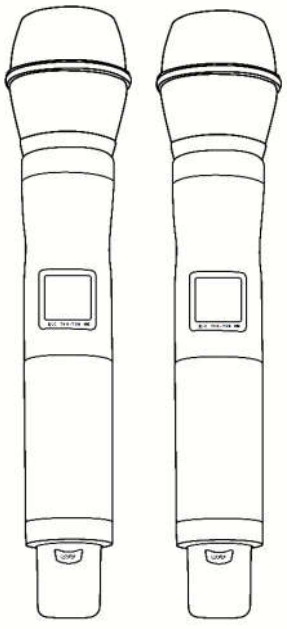
PROFESSIONAL WIRELESS MICROPHONE SYSTEM MANUAL

Talent Audio
Product Name: Handheld Wireless Microphone
Model: UWH1, UWH2



UHF 200 CHANNEL
WIRELESS MICROPHONE

Thank you for selecting this wireless microphone system!
The newly system uses the latest PLL SYNTHESIZED and IR TECHNOLOGY, they have excellent and skilled in manufacture technique of wireless，dependable performance, easy set up and handle. Moreover, they have high fineness AF definition. Whether you are the singer，guitar or exponential, it will be your best choice.

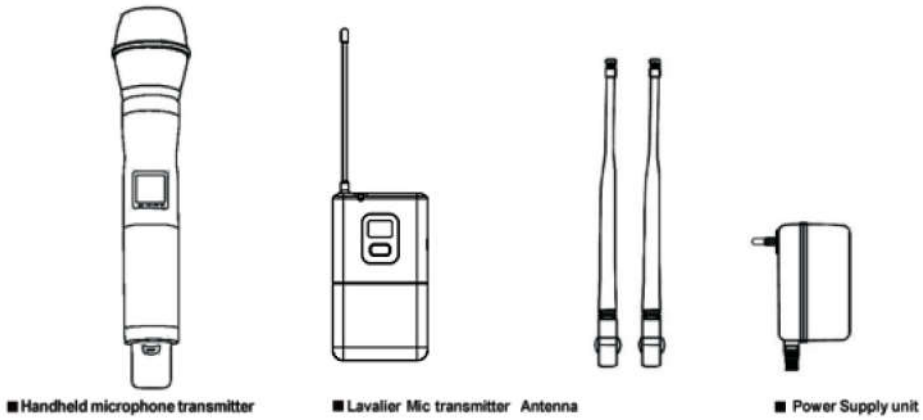
Warning

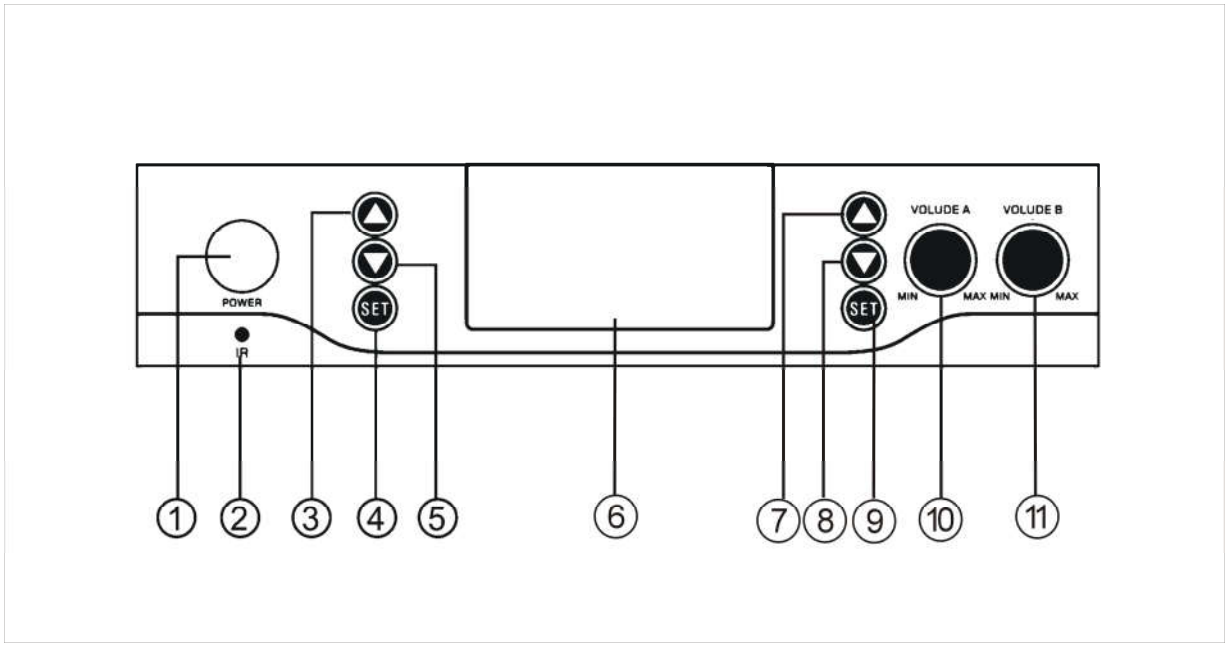
Please prevent the equipment dripping by water; do not put the liquid articles such as vase on the equipment. This machine has no maintain part, for preventing electric shock from being dangerous, do not turn on the machine cover without permission. If need to maintain, please contact sale agent.

1. Read the operating instructions-You must read all the safety and operating instructions carefully before use the equipment.
2. Reserved the operating instructions-Please reserved all the safety and operating instructions, ready for the future checking.
3. Warning - Please note all the warning of the applications of this machine during operation.
4. Follow the instructions - Please follow the instructions of the machine and all operations.
5. Additional devices-Only allow the additional devices which recommended by the manufacture, in order to avoid accident.
6. Rainy and humidity-Keep away from the water
7. Ventilation- Use and storage of the machine needs good ventilation environment, each equipment space at least more than 5cm.
8. Heat-Please keep away from the heat, including: heater, radiator，stove and so on.
9. Power—Please use the standard power volts marked in the machine.
10. Equipment should not place naked flame sources, such as lighted candles.
11. Do not throw waste batteries, please put it into the designated recycling bins.
12. Don’t put all the liquid or heavy objects; prevent water droplets or water splash on the equipment.
13. Equipment can be used in tropical or temperate zone

System include following parts:

- Receiver
- 2 AA batteries (4 in combo systems)
- Power supply
- 2 antenna
- User guide
- 2 handheld microphone transmitters/ Lavalier Mic transmitter
- Lapel clip





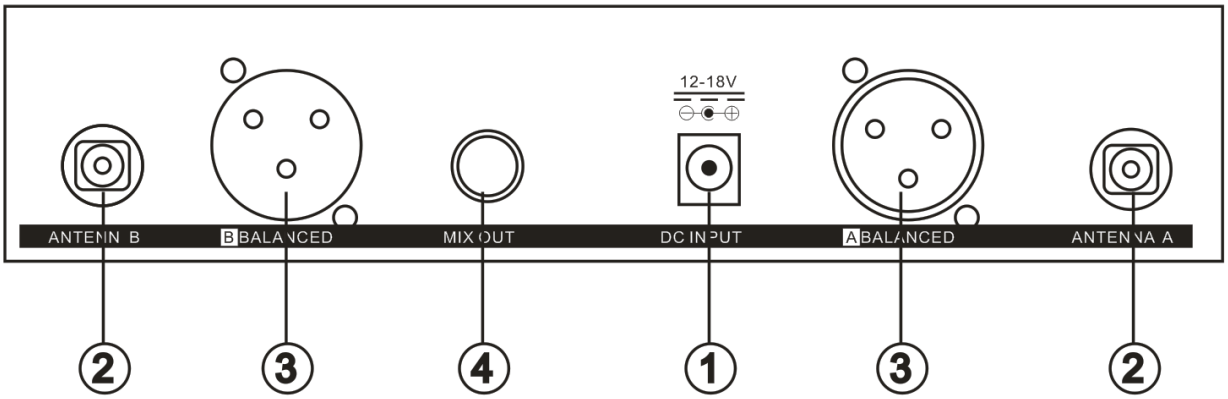
Receiver

Front View of Receiver

1: "POWER KEY", On/Off switch: Tap to turn on , hold to turn off
2: Infrared window
3: A-CH "UP KEY ", channel +
4: A-CH "Down KEY ", channel -

5: A-CH "SET KEY "
Short Press：A-CH Broadcasts IR signal;
Press it for 3S: A-CH Scans;
Press it for 6S: Lock/Unlock the Keyboard of A-CH;
6: LCD panel: display system information
7: B-CH "UP KEY ", channel +
8: B-CH "Down KEY ", channel –
9: B-CH "SET KEY "
Short Press：B-CH Broadcasts IR signal;
Press it for 3S: B-CH Scans;
Press it for 6S: Lock/Unlock the Keyboard of B-CH;
10: Volume A-CH switch
11: Volume B-CH switch

Rear View of Receiver

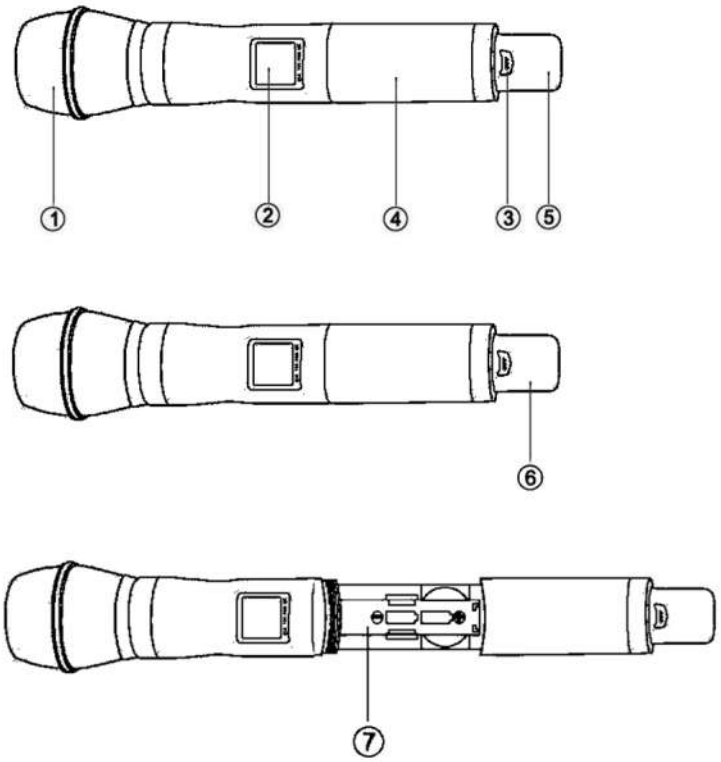


1. Power Jack: Connect to DC12V 600mA power adapter
2. Antenna Jack
3. Balance output jack
4. Mixing output jack

Receiver LCD Display

1. RF signal level
2. AF audio level
3. Frequency display: When FREQ lighting, the digit display current working frequency
4. Channel display: When CHAN lighting, the digit display current working channel
5. RF power display
6. Channel display: Display current working channel
7. Mute: LCD will display mute if there is no signal

Function of Handheld Microphone Transmitter



1. Microphone head
2. LCD screen
3. Power switch: Press and hold to turn on or off.
4. Microphone body: battery, circuit inside.
5. Built-in antenna
6. Infrared sensor: operating with “SET” key on the receiver
7. Battery case: Use two AA chargeable batteries. If you don’t use it for a long time, please take it off.

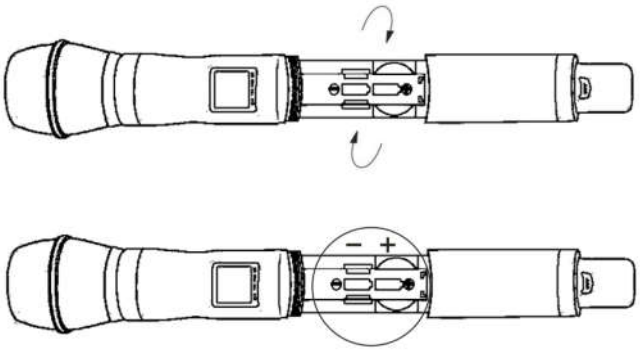
Transmitter Microphone LCD Display

1. Channel display
2. Please change the new battery if the battery capacity displayed as pic 2.
3. Microphone off
4. Pic 4: Transmitter microphone channel unlock,

6. Pic 5: Transmitter microphone channel lock on.

Battery Install

Please install the battery as following pic:



1. Hold on the upper part of the handheld, open the metal shell, disclosing the battery case.
2. Put two AA 1.5V batteries into the case, but please make sure the battery polar is correct Note: Please don't make the battery polar wrong, it would be damaged electronic component inside the transmitter.
3. Cover the metal shell after batteries are settled.

Receiver Setting

(We have setting the default frequency and channel, please do not change the setting if unnecessary)

1. Automatic frequency selection

Press "SET' key, receiver will scanning and selecting the frequency automatically within 3 seconds, if press "SET" key during the scanning, receive will cancel this operating and remain unchanged.

2. IR sync

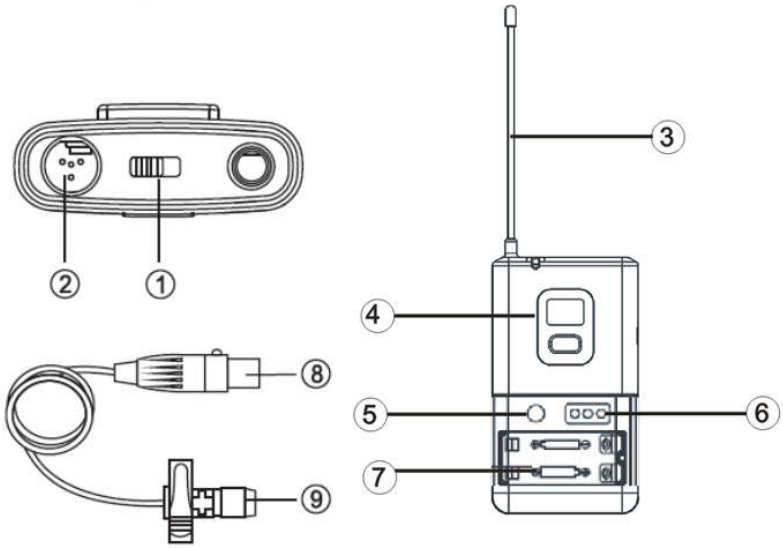
Turn on transmitter microphone and receiver first, press "SET" key on receiver, and then use the microphone IR sensor aim at the receiver's IR port, receiver will save the setting and exit automatically if the IR sync succeed, and RF indicator will display, MUTE symbol will disappear, transmitter microphone will switch the channel and frequency same as receiver.

Lock/Unlock function

If you want lock or unlock the function key of receiver, please do as following:

1. Turn on receiver first.
2. Press "SET" for 6S: Lock/Unlock the Keyboard of A-CH/B-CH

Function of Lavalier Mic transmitter



1. Power On/Off switch
2. Lavalier Mic input jack
3. Antenna
4. LCD display
5. Infrared sensor
6. Lavalier Mic transmitter function key (the usage is same as the handheld Mic transmitter function key)
7. Battery case
8. Lavalier Mic connector
9. Condenser microphone cartridge

Lavalier Mic transmitter LCD Display

1. Channel display
2. Battery capacity
3. Please change the new battery if the battery capacity displayed as pic 2.
4. Microphone off
5. Pic 4: Transmitter microphone channel unlock,
6. Pic 5: Transmitter microphone channel lock on.

Operation of Lavalier Mic transmitter

1. Channel adjustment
   Press "SET" key one time, when LCD top right corner display digit "X.XX" will flash, user can use "UP' & "DOWN" key to select the channel, frequency will change automatically, frequency band is 250kHz, total 100 channel, user can save the setting with "SET" key press.
2. Frequency band adjustment (For example current is low band)

Press "SET" key two times, "BAN LO" will flash, user can use "UP' & "DOWN" key to select the frequency band, and then press "SET" key to save the setting when LCD "BAN HI" flashing.

3. RF PWR adjustment (For example current RF is in high status)
   Press "SET" key four times, "RF HI" will flash, user can use "UP' & "DOWN" key to select the RF PWR. LCD will display "RF LO" if user select low power, and then press "SET" key to save the setting.
4. Sensitivity adjustment
   Press "SET" key four times, LCD will display "VOL -30" or "VOL 0", the digits will flash, user can use "UP' & "DOWN" key to select the sensitivity (-30, -20, -10, 0, 0 is the highest), and then press "SET" key to save the setting.
5. IR sync
   Press "Down" key on receiver, and then use the transmitter IR sensor aim at the receiver's IR port to transmit the parameter to receive, receiver will save the setting and exit automatically if the IR sync succeed
6. Lock & Unlock
   Hold on to press 'SET" key, and press "UP" key, LCD will display "LOC ON", this indicate transmitter's function key was locked.
   Hold on to press 'SET" key, and press "DOWN" key, LCD will display "LOC OFF", this indicate transmitter has release the lock status.
   (Transmitter unit will exit the setting if there is no operation after LCD digit flashing within 6 seconds.)

Operation:

1. Connect the sound system
2. Turn volume of receiver and amplifier (KARAOKE system) to the lowest point.
3. Turn on sound system's power step by step.
4. Turn on transmitter microphone
5. Adjust receiver's volume to the middle. Open microphone's power, and then adjust the volume of amplifier slowly, make sure the microphone achieve the best effect. You can go around using place when testing. If there is no hum when you going around, it means you got perfect sound effect.
6. If there are problems with receiver system, please see the "Troubleshooting". If you still cannot find the solution, please contact professionals or local agency.
7. After using, turn off transmitter's power first, and then turn of sound system step by step.

Note:

1. Since the installation of antenna influences the operating efficiency of the receiver. The most important rule is to minimized the distance between receiving antenna and microphone as short as possible for better reception and performance
2. To avoid RF signal influence, always keep the receiver away from computer or other potential sources of interference.
3. Avoid installing the receiver at the lowest floor of equipment cabinet
4. This wireless system can support up to 200 microphones at the same time, no disturb, but it has to be adjusted by professional before using.

Trouble Shooting

Problem/Status	Solution
No sound (Status: No receiver RF signal)	➢ Make sure transmitter and receiver's power switch "ON" position ➢ Check the battery polar ➢ Check the antenna of the receiver ➢ Make sure there are no obstruct between antenna and transmitter
No sound (Status: RF & AF signal active)	➢ Check receiver volume knob ➢ Check the connection of receiver, amplifier and mixer. ➢ Check the volume knob of amplifier and mixer
No sound (Status: RF signal active, no AF signal)	➢ Check transmitter 's power ➢ Exchange the microphone if necessary
Distortion or unwanted noise bursts	➢ Remove RF interference (CD players, computers, in-ear monitor system, ect.) ➢ Change receiver and transmitter to a different frequency ➢ Reduce transmitter gain ➢ Replace transmitter battery ➢ If use multiple systems, increase the frequency band between systems
Sound level different from cabled guitar or microphone, or when using different guitars	➢ Adjust transmitter gain and receiver volume as necessary
Can not turn on/off transmitter	➢ Replace the battery

Technique Specifications

1. System Parameter:
Working frequency: 500.000MHz-560.900MHz
Modulation: Broad Band FM
Frequency channel: 200
Switching bandwidth: 200 kHz
Frequency stability: ±0.005%

Dynamic range: 100dB
Max deviation: ±65KHz
Audio frequency response: 45Hz-18KHz (±3dB)
Signal noise ratio: > 100dB
THD: ≤0.5%
Operation range: About 100 m (No disturb)
Operation temperature range: -10℃~+50℃

2. Receiver Parameter
Receiving mode: DPPL
Antenna connection: BNC/50Ω
Sensitivity: 12dBuV (80sB S/N)
Noise Rejection: ≥75dB
Max output level: +10dBV

3. Transmitter Parameter
Antenna: Built-in
RF Output: <10mW
Noise Rejection: -60dB
Power: 2pcs AA batteries
Battery Life: 8 hours in normal power, 10 hours in low power
Antenna gain: 2 dBi

FCC warning statement

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.