

## Specification

### Comprehensive technical parameters:

Frequency Range: 551-594.675MHz

Band Width: 100MHz

Modulation Mode: DQPSK

Max Deviation Range:  $\pm 50$ KHz

Audio Response: 100 Hz-10 KHz

S/N Ratio:  $> 50$ dB

Total Harmonic Distortion:  $\leq 5\%$

Dynamic Range:  $> 105$ dB

T.H.D:  $\leq 0.5\%$  (@1KHz)

AF Processing: dynamic compression extension technology

### Receiver:

Oscillation Mode: PLL Synthesized

Audio Output Level: 0-300mV

Audio Output Impedance: 600 $\Omega$

S/N Ratio:  $\geq 85$ dB

Power Supply: DC14V / 400mA

DC14V / 1000mA

### Transmitter:

Oscillation Mode: PLL Synthesized

Frequency Stability:  $\pm 10$ ppm

Maximum Modulation:  $\pm 50$ KHz

Maximum Output Power: 30mW

Harmonic Radiation:  $< -55$ dBc

Maximum Output Stress: 130dB SPL

Pick-up Type: Dynamic (handheld), Condenser (Lapel and goose)

Power Supply: AA size

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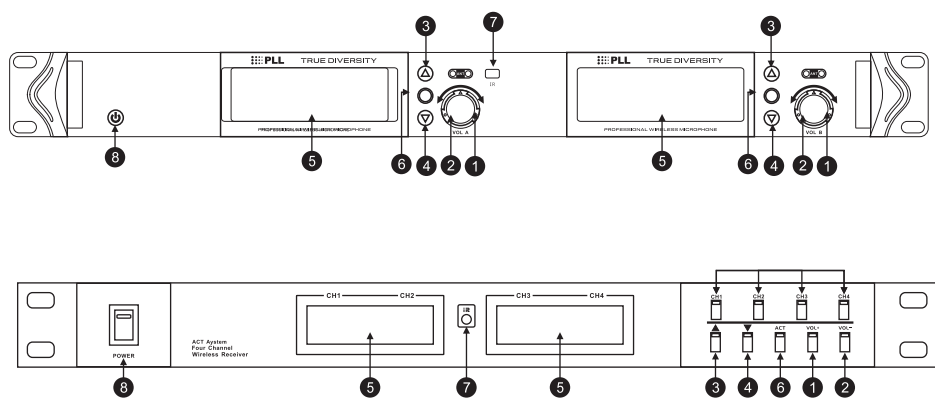
### Warning

1. Make sure to connect an electrical outlet with a protective grounding connection. Improper grounding may cause electric shock.
2. Please do not let this equipment be in the rain, and near the water and damp environment to use. Or put the filled with liquid container above it. Otherwise it may cause the liquid splashing into any openings, to cause electric shock.
3. Do not litter when power is abandoned, please put in the designated recycle bin.
4. When setting up the device, please confirm that the ac power outlet. You want to use which can reach and disconnect the power supply. If a problem or malfunction occurs, please disconnect the power switch immediately and pull the plug from the power outlet. Even if the power switch is off, there will be a minimum current to the product. When determining that the device is not used for a long time, please be sure to pull the plug from the ac power socket.

# Receiver Function

A.Front panel:

- 1.Volume controller: Adjust the knob for bigger volume.
- 2.Volume controller: Adjust the knob for smaller volume.
- 3.The upward button.
- 4.The down button.
- 5.LCD display: Reflect the working state. (For detail, please refer to “Receiver LCD display info” in page 5)
- 6.ACT: To get IR connection of receiver and transmitter
- 7.IR: Receiver to transmitter for synchronization frequency.
- 8.Power switch: Turn on or off

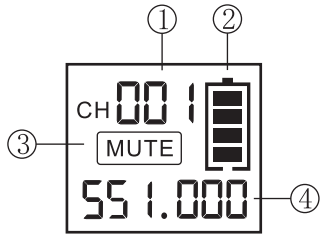


# Fault Handling

Problem	Indicator Status	Solutions
No voice or weak voice	Transmitter Power LED off	Turn on power; Make sure+/- is right; Change to new battery
	Receiver LCD off	Make sure if the power;adaptor is connecting with power;Power supply and socket is OK
	Receiver LCD showing valid antenna	Press MUTE on transmitter; Adjust to bigger volume on the receiver; Adjust the GAIN; Check the connection of receiver and amplifier or mixer
	Antenna not working; transmitter and receiver indicator lights	Prolong the antenna and remove the metal things from aside; Check if any obstcale between transmitter and receiver; Move the transmitter near to the receiver; Check if the same frequency used of receiver and transmitter.
	Transmitter LED in red or flash red	Change or renew battery
Distortion or much noisy	Valid antenna showing of receiver	Remove the RF interference(like CD player, computer, digital sets and earphone monitor system etc.); Adjust to different frequency of transmitter and receiver; Lower the gain of transmitter; Renew battery; Use more system to get bigger frequency distances.
Distortion level increasing	Power indicator in red or flash red	Renew battery
Sound lever differs from guide sound or mic sound, or different guide with different level sound		Adjust the volume of transmitter and receiver
Transmitter can't be shut off	Transmitter LED flash red	Renew battery

PIs ref to local dealer or factory for more technical support is needed

## Transmitter LCD Display Info



1. Working channel
2. Battery volume indicator
3. Mute function: Press MUTE bottom to turn on/off
4. Working frequency



Normal working status  
Showing working channels,  
frequency and battery volume



Mute Status  
“MUTE” shows mute function, no  
signal output



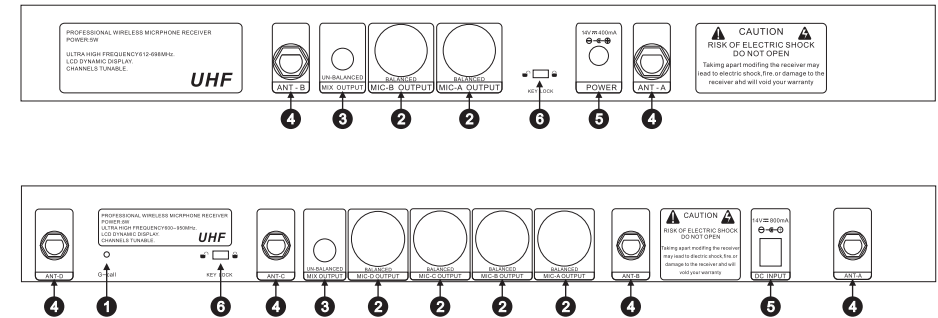
Low Battery Status  
This indicates the battery should  
be renewed  
And no signal output when in this  
status

## System Features

1. UHF signal carrier
2. PLL technology
3. More convenient use without A B difference for transmitter
4. Front panel with professional and fashionable design
5. Simple, direct and humanization operation panel
6. One button ACT, multi-scan technology and reliable synchronous transmitter
7. Manual channel selecting or Auto scanning for options
8. Strengthened anti-interference. With the pilot frequency, field strength and noise testing, it can keep great stability even in the noisy environment.
9. Adjustable sensitivity, especial suitable for KTV
10. Beautiful and durable transmitter is made of latest engineer plastic, good for KTV
11. Latest craft and technology and low noise components for the transmitter make it more durable and stable.
12. Superior microphone core makes excellent sound whatever for soft or loud signing.
13. High-quality sound restoration capability makes singing easier

## B.Back panel:

1. G-call can call out stored channel combinations of product
2. Cannon output: Balanced AF signal output socket.
3. 6.35 output plug: Mixed AF signal output socket.
4. Antenna plug: Connect the antenna.
5. DC input: Power supply input socket
6. Keyboard lock: Lock all buttons except the power supply

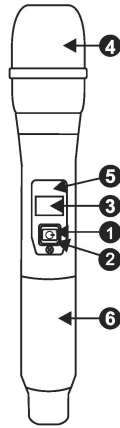


## Receiver Operation

1. When ON, the system starts working on the station of last time.
2. After the power is turned on and the power is off, press the POWER button to enter the power waiting mode. The power of the whole machine is turned on; the display screen is turned on. And system works normally after the POWER button is released.
3. Up and down bottom used to select frequency points (Some models are realized by the SELECT button)
4. ACT button for synchronization frequency.
5. ACT function can be cancelled by any button pressing even in the use.
6. With long press POWER for 0.6 seconds, LED will show “OFF>>>>”, then the unit shuts off.

## Transmitter Function indication

- 1.Power supply
- 2.Power supply indicator light
- 3.LCD Display
- 4.Dynamic cartridge
- 5.IR port
- 6.Battery compartment
- 7.Transmitter antenna



## Transmitter Operation

1. It can be turned on with correct battery in. The unit will be in standby mode when press POWER and LCD back light is on. The transmitter will be working when loose the POWER and green LED lights.
2. With MUTE button pressed when in working status, the systems will be in mute. And the function will be cancelled when press it again. Mute LED lights in orange color.
3. Manual mute does not affect the frequency matching and OFF operation.
4. LCD will show “L-BATT” when the battery lower than 1.8V and the unit comes into mute mode. All other functions except for the power off will be locked. And LCD will tells other operation. LED lights in red by coercive mute.
5. Press POWER for 0.6 seconds or linger, LCD will shut off and the power will be cut when loosen the button pressing.
6. LCD battery display of electric quantity with four sections.

## System Setting

System setting for signal unit

Below steps should be followed for signal unit system:

Press ACT when the IR ports of transmitter and receiver aims at each other.

1.  
A, SCAN: Scan the available channels and then sets it.

- B, Manual: Press (↑)(↓) to get the suitable frequency and at the same time to check the signal interference through RF. Please stop it if there is interference.
2. Auto transmitter setting: ACT of receiver starts transmitting synchronization signal with IP port outside.

Remarks: The system will auto send IR signals when there is suitable frequency scanned. Transmitter is suggested to be in ready status first.

(The other channels at the same operation)

### FCC Statement

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.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.