



Quad-channel wireless microphone system

TS-354UH

User Manual

Index

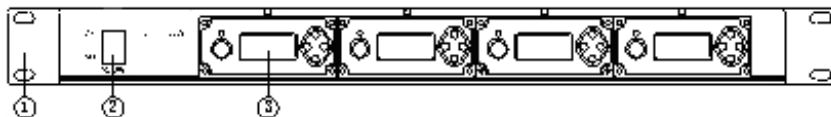
UHF 4G Receiver.....	1
UHF Receiver Module Controls Features & Indicators.....	2~5
Handheld Transmitter Controls, Features and Indicators.....	6~7
Body-Pack Transmitter Controls, Features and Indicators.....	8~10
Specification.....	11

Thank you for purchasing Quad-channel wireless microphone system. Before set up the system, read the manual carefully to understand each part of the system.

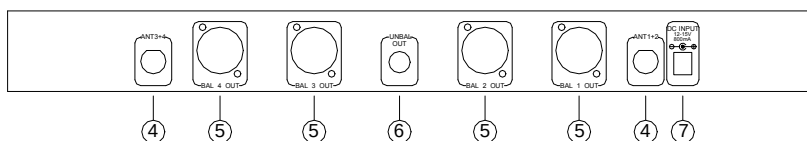
The 4-channel wireless microphone system consists of 4 sets independent UHF receiver module with 100 frequencies from 700-900MHz. It is designed for conference room, school, church and many other indoor applications. To get your system up and running in just a few minutes, please follow the simple instructions in this manual. For more information, refer to the sections of this manual that applies to your needs.

UHF 4-Channel Receiver

View of Front Panel



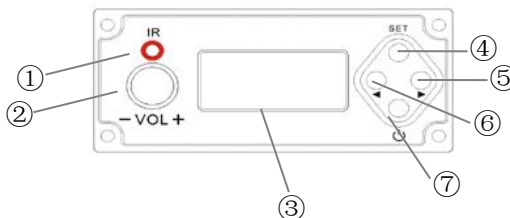
View of Back Panel



- ① Rack mountable kit
- ② Power switch
- ③ UHF receiver module
- ④ Antenna
- ⑤ Audio balanced output for each module
- ⑥ 4-module unbalanced shared/mixed a audio output jack
- ⑦ Power jack: 12V DC/ 1,000 mA

UHF Receiver Module: Features & Indicators

I. View of Front Panel



- ① ACT(Automatic Channel Targeting) transmission window. To make

the easiest and fastest channel set up between the transmitter and receiver.

②Volume Controller

③LCD Display shows Frequency/Channel, RF signals, Audio Signal strength, Squelch

④⑤⑥Function Keys: Press the key and hold for 2-3 seconds, then the key is selected, Press “◀” or “▶” to select function, after the Function (frequency /channel/ Squelch) is selected, press the SET key again to confirm it.

⑦Power Switch: Press power key for 2-3 seconds. The LCD display should light up or power off.

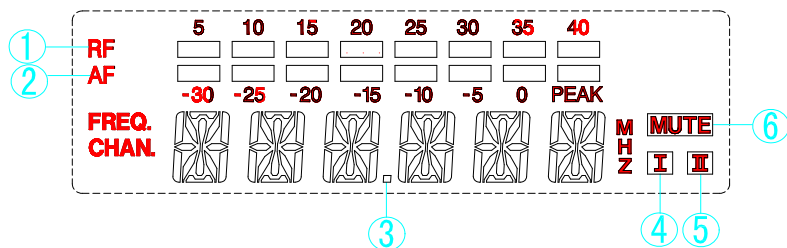
Squelch: Sensitivity Control sets sensitivity point at which the receiver should be on the LCD. This control is factory pre-set at: 0 - 40dB from 5, 10, 15, 20, 25, 30, 35, 40, 45 dB position is to provide optimal operation in most applications. 40 dB position will decrease operating range.

II. Operation Each Receiver Module

1. Make sure that the transmitter is turned off before turning the receiver power on. Press the receiver power key, the LCD will glow and turn on. Then press “◀” or “▶” to choose function and channel, press SET key to confirm the set. Check RF and AF signal strength when the transmitter signal becomes noisy, weak or fails. Then press “◀” or “▶” to choose a clearer channel, press SET key to confirm.

2. Press and hold the power key for 3 seconds to turn the receiver off.

III. Operation of the LCD display



- ① RF bar indicators: 8-bar indicates the strength of radio frequency signal
- ② AF bar indicators: 8-bar indicates the strength of audio signal
- ③ When frequency shows: FREQU indicates the current working frequency
- ④ When channel shows: CHANNL indicates the current working channel
- ⑤ 6-segment shows: frequency, channel and menu.
- ⑥ Mute sign shows that no RF signal is received.

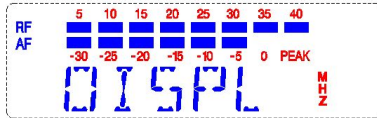
Press and hold “SET” key to choose or confirm. Press “◀” or “▶” key to change current frequency or channel then press “SET” key again to confirm it. Use “SET” key to confirm transmitter working status. Press and long hold the “◀” or “▶” for a fast move.

When the strength sign shows and the frequency is the same as shown on the transmitter, it means the pairing is done successfully.

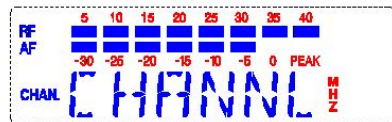
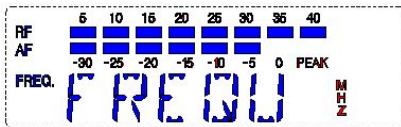
LCD Display

A. Main Menu

Press “SET” key, the picture below will present on display first



After 2-3 seconds, one of two pictures below will present: it depends on last status before turning the system off. The CPU of receiver keeps last status in the memory, LCD displays what stored last time when the CPU was shut off.

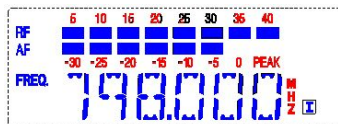
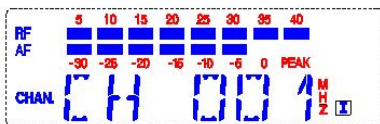


You can select CHANNL or FREQU when press “◀” or “▶”key. It shows 0-99 digits when choose CHANNL; it shows real carrier frequency when you choose FREQU.

After your choice , Press “SET” key to confirm it , if you do not press SET to confirm it, the receiver will return to last status to work. The LCD will blink if no confirmation is made; this is to invite a confirmation. If you press SET key to confirm it, the LCD will stay firm.

B. How to adjust channel

Press “SET” key for 2-3 seconds, LCD will present, CH 001. Press “◀” or “▶” key to change current channel. Press “SET” key to confirm, but the receiver will return to last channel to work after indicator flash 2-3 seconds if not press “SET” key.



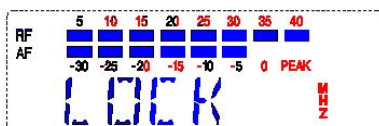
(The LCD will display one of the above depends on last status)

C. How to adjust frequency

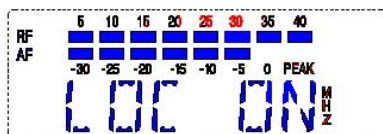
Press “SET” key for 2-3 seconds; LCD will present 798.000. Press “◀” or “▶” key to change current work frequency, Press “SET” key to confirm, but the receiver will return to last state to work after indicator flash 2-3 seconds if not to press “SET” key.

D. System lock operation

Press “SET” key for 2-3 seconds, LCD will present as the following diagram.



After 2-3 seconds, LCD will change to one of the following diagrams.



It depends on the last status when LCD was turned to see which one is now.

If the LCD shows LOC ON, you can do nothing on the system, even you cannot power off the system. If it shows LOC OFF, you can make changes.

If it is in LOCK ON mode, press “SET” key for 2-3 seconds, then press “◀” or “▶” key to set to LOC OFF. You can change function at LOC OFF status. Unless press “SET” key to confirm it after changing function, otherwise receiver CPU keeps last status.

Trouble shootings

Some problems and their solutions are identified in the table below.

Problem	Solution
LCD not glowing	Check for proper connection between power adapter and receiver
No RF signal on receiver	Check both transmitter and receiver channel/frequency correction
No AF signal on receiver	Check microphone audio cable connected body-pack, make sure output cable from receiver is connected
Noise from receiver When transmitter is off	Change frequency / channel, and lower sensitivity on receiver
Audio signal distorted	Decrease audio gain in transmitter and lower audio output in receiver
Short performance Distance and drop RF signal	Switch transmitter output power in hi position and set more sensitivity in receiver or channel frequency/channel Try to set up another pair of channel to test.

System Specification

Frequency Range: UHF range.700-900MHz

Modulation Mode: PLL

Bandwidth: 50 MHz

Channel: 200 Channel interval 250 KHz

Stability: +/-0.0005%

Dynamic Range: 100dB

Max Deviation: +/-80 KHz

Frequency Response: 100Hz-15 KHz+/-3dB

S/N: >105dB

Distortion: <0.5%

Operation temperature -10°C~ 40°C

T.H.D: <0.5% (at 10KHz Deviation)

Power Supply: DC 12V

Audio output: Balanced each& Mixed unbalanced

LCD displays: Accumulative working time after battery

Replacement, frequency, RF input level, AF level, battery status

Muting RF level and wireless channel information.