UHF Dual-Channel Wireless Microphone System

T-522UH/522UV

T-522UT/522US

T-522UL/522UW

User Manual

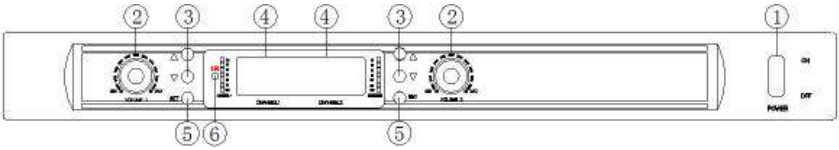
Thank you for purchasing UHF dual channel wireless microphone system.

The unit is a dual-channel wireless receiver. Each channel with same 200 frequencies . It is designed for corporate events, live music performances, higher education

To get your system up and running in just a few minutes, follow the simple instructions in this manual. For more information, refer to the sections of this manual that applies to your needs.

Features & Indicators

View Of Front Panel



①**Power Switch**

②**Volume Control Knob**

③**Arrow Buttons**：Press the key and hold for 2-3 seconds, then the key is selected, Press **“▲”** **“▼”** to select function, after the function (frequency /channel) is selected; press the SET key again to confirm it.

④**Display:** Shows menu each channel option such frequency/channel, scan status and squelch

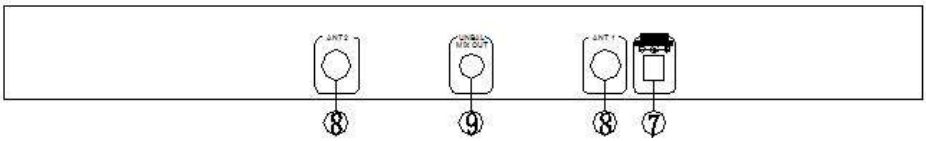
⑤**Menu Button Of SET Key**

SCAN Press the SET button on receiver to access the scan function for the best available channel

⑥**IR Align Window**：Align with the transmitter IR window during

an IR sync to automatically program transmitters

View Of Back Panel



⑦**Power Jack**: 12V DC/ 1 A

⑧**Antenna BNC**

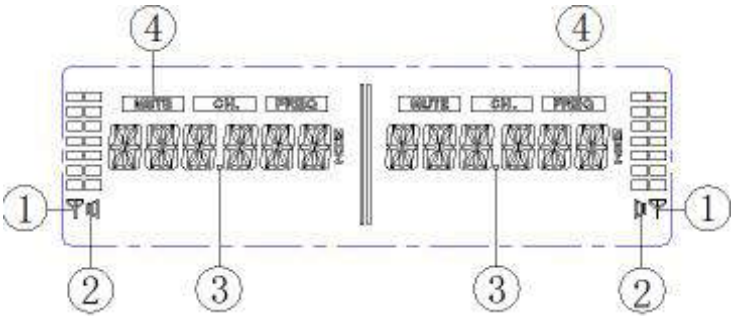
⑨**Unbalanced Audio Output Jack**

Size: W420*H44*D148 mm Be to be mounted in a standard audio equipment rack with factory offers mounting brackets

Operation Receiver

Make sure that the transmitter is powered off before turning the receiver power on. Press the receiver power button, the LCD will glow and turn on, then press “SET’’ button to access the scan function for the best available channel

The LCD Display



①RF bar indicators: 8-bar indicates the strength of radio frequency signal.

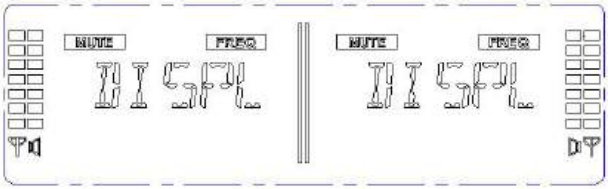
②AF bar indicators: 8-bar indicates the strength of audio signal

③When the LCD shows FREQU, it is the current working frequency

④Mute sign shows that no RF signal

A. Main Menu

Press “SET“ button , the LCD below will present on display first

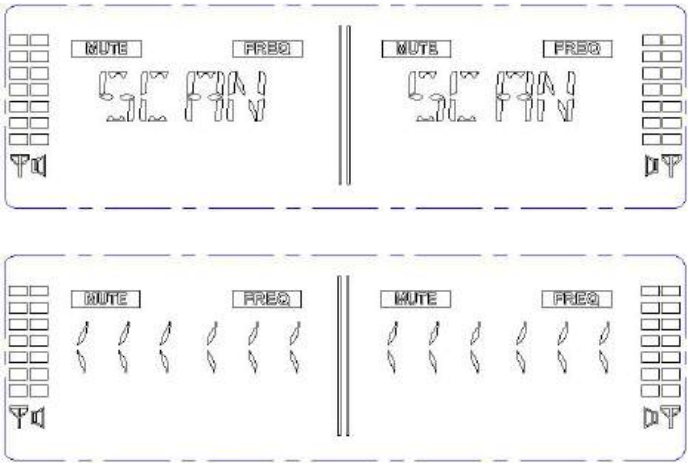


After 2-3 seconds, one of two pictures below will present: it depends on last status before turning the system off. The CPU of receiver remembers last status LCD displays what stored last time when the CPU was shut off.

B. Scan Frequency

The receiver scans the RF spectrum for the best available frequency

Press SET button to star the scan

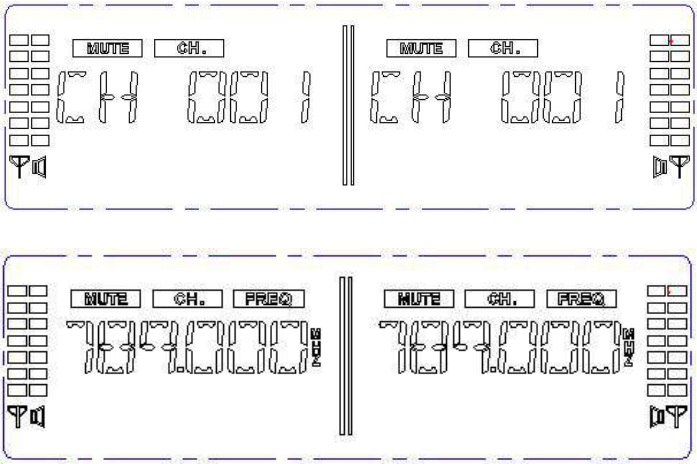


When the scan is complete, the selected channel will appear on the display.

C. Manual Frequency

When press "▲""▼" button. It shows 0-99 or 100-199 digits when choose CHANNL; it shows real carrier frequency when you choose FREQU.

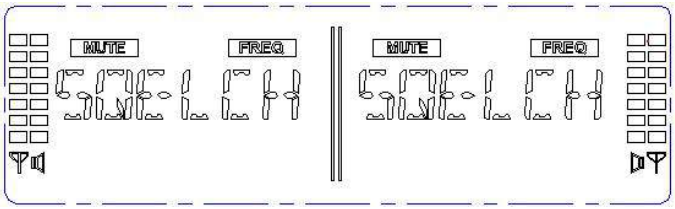
After set , Press "SET" button to save , if not save, the receiver will return to last status. The LCD will blink if no confirmation is made; this is to invite a confirmation.



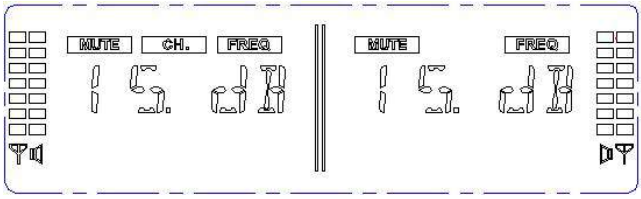
(The LCD will display one of the above depends on last status)

D. How To Set MUTE Of Receiver

Press “SET’’ button to access SQELCH menu



Press “SET” button and hold seconds, LCD will display Squelch like 15 dB indicates sensitivity status. Press “▲”“▼” button to change current status if need. This point is a factory pre-set at: 0-40dB. 5, 10, 15, 20, 25, 30, 35, 40dB positions are to provide optimal operation in most applications. Position at 40 dB will decrease operating range.

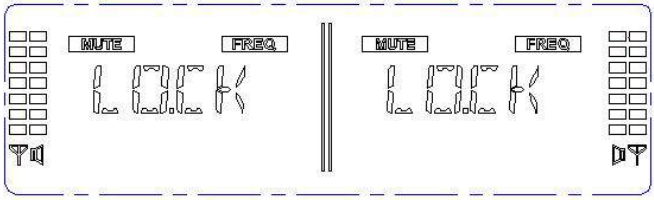


E. System Lock Operation

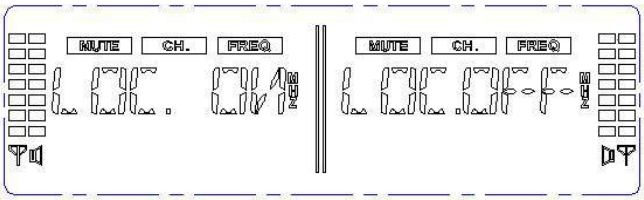
Control lock options is available for receiver to protect against accidental or unauthorized changes.

Locks can be directly set from the menu as follows

Press “SET” button for 2-3 seconds, LCD will appear on the display as follows



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

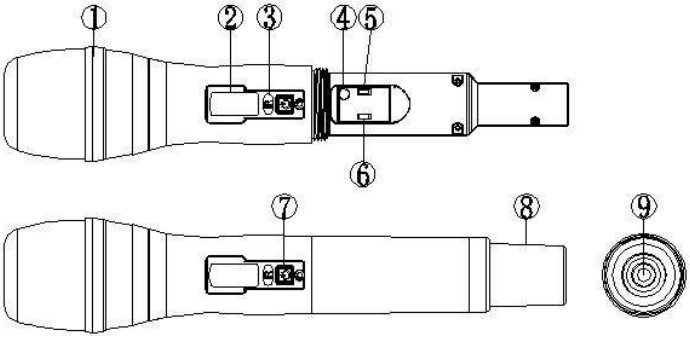


It depends on the last status when LCD was turned off to see what it will show now.

If the LCD shows LOC ON, Protect against accidental or unauthorized changes

If it is in LOCK ON mode, press “SET” button and hold then press “▲”“▼” button to set to LOC OFF.

Handheld Transmitter Controls, Features & Indicators



①**Metal Grille** Hexagonal-shaped to protect the microphone cartridge from being damaged, reducing breath sounds and wind noise.

②**LCD Display** Indicate channel and remaining battery life

③**IR Align Window** Align with the receiver IR window during an IR sync to automatically program transmitters.

④**Power Switch Button**

⑤**Handheld Integrated Antenna**

⑥**Microphone Gain Control** Provide audio level adjustment to accommodate different sound source

⑦**RF Power Setting** Lo or Hi

⑧**Lock On/Off Switch** Protect against accidental or unauthorized changes

⑨**Charger Port** Using factory offers bay chargers and works Ni-MH AA rechargeable batteries only

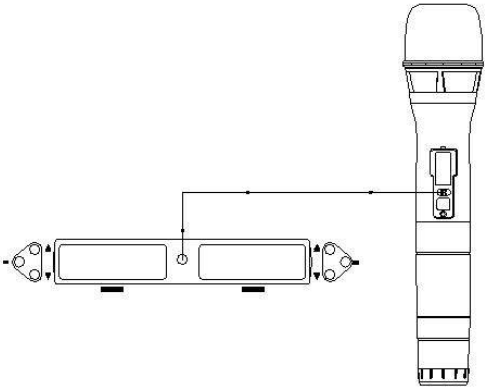
IR Sync For Automatic Handheld Transmitter Set Up

① Turn on the handheld transmitter

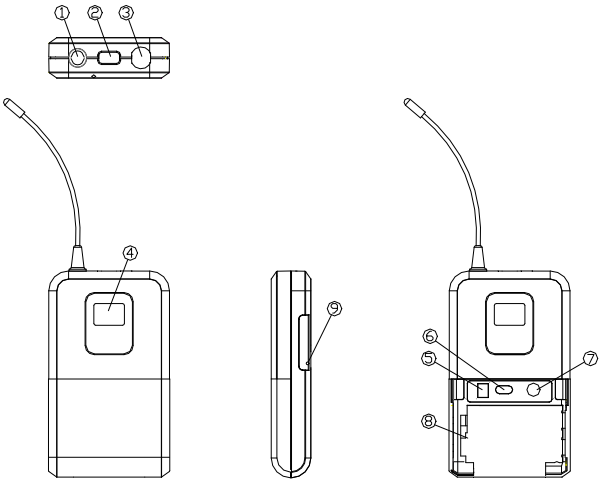
② Press the SET sync button on receiver . the IR LCD indicating the sync mode is active

③ Align the IR sync windows of the handheld transmitter and receiver at a distance of less 20 CM. When the handheld transmitter and receiver are aligned. The display of handheld transmitter will appear channel No. as same as receiver when IR sync is complete

④ If the IR sync fails, repeat IR sync procedure again



Body-Pack Transmitter Controls, Features & Indicators



①**Audio Balanced Input Jack**

②**Power Button**

③ **Antenna**

④**Display** ;Channel and battery level.

⑤**IR Align Window:** Align with the receiver IR window during an IR sync to automatically program transmitters.

⑥**RF Power Setting** Lo or Hi

⑦**Microphone Gain Control**

⑧**Battery Compartment**： Recommend Ni-MH AA batteries×2 or AAX2 rechargeable batteries

Specifications Of System

Frequency Range: UHF range 590-640MHz

Modulation Mode: PLL

Bandwidth: 25MHz

Channel: 200 Channel interval 25 KHz

Stability: +/-0.0005%

Dynamic Range: 100dB

Max Deviation: +/-80 KHz

Frequency Response: 20Hz-20 KHz+/-3dB

S/N: >85dB

Distortion: <0.5%

Operation temperature -10℃~ 60℃

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

Power Supply: DC 12V~500MA

Audio output: Balanced & unbalanced

LCD displays: , frequency, RF input level, AF level,

Muting RF level and wireless channel information.

Specifications Of The Receiver

Receiving Mode: PLL synthesized oscillation mode

Inter Frequency: First 110MHZ, second; 10.7MHz

Antenna Type: BNC type/50 Ohms

Sensitivity: 12 dBμV (80dBS/N)

Sensitivity range: 12-32 dBμV

Spurious Emission: ≥75dB

Max audio output: +10 dBV

Specifications Of The Transmitter

RF Output: Hi: 30mW: LO: 10 mW （meet CE/FCC regular）

Spurious Emission: -60dB

Operation Battery: AA x 2

LCD displays Channel and battery status

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