

TS-8808HH UHF Wireless Microphone

■ Preface

Dear Customer,
Thank you for purchasing Takstar TS-8808HH UHF wireless conference microphone. Please read the user manual carefully before operation and keep it for reference in future. If you have any question or suggestion, please contact our local dealer.

■ Features

- TUNER diversity technology effectively solves the problem of dead point and improves the receiving stability
- ID code function effectively prevents from external interference and channel crosstalk noise
- The receiver has the function of one button to automatically scan and quickly select the channel without interference
- Infrared matching for simultaneously operation of transmitter and receiver
- The receiver has SQ adjusting function. The transmitter has high/low power switching function. User can adjust the sensitivity and improve anti-interference capability and operation range according to the application environment
- Independent bal XLR and unbal 6.3 combo connector for convenient connection
- The transmitter and receiver have locking function to prevent from misoperation

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■ Specification

System Specification:

- Frequency Range: 470-960 MHz(Frequency band)
- Channel Quantity: dual channels
- Frequency Bands: 200
- FM width: 50MHz
- Frequency Band Interval: 250KHz
- Modulation/Demodulation: FM
- Mute Control: frequency guide ID code
- Modulation Deviation: ±48KHz
- Frequency Response: 80Hz-16KHz
- Frequency Stability: ±0.015%
- S/N Ratio: ≥100dB A+
- Dynamic Range: ≥90dB A+
- Distortion: ≤0.5% (at 1KHz)
- Operation: 50m

Transmitter:

- Transmitter Power Supply: 2 AA batteries
- Transmitter: ≤10mW
- Operation Time: more than 8h
- Handheld Microphone (D*H) : 53*270 mm
- Handheld Microphone Weight: 350g

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Receiver:

- Receiver Power Supply: DC12V/0.5A
- Wireless Connector: TNC/Impedance 50 Ohm
- Receiver Sensitivity: ≤-90dBm (test after connection)
- Max Audio Output: 2V/RMS(at 1KHz THD=1%)
- Audio Output: independent (XLR) and combo (6.3mm)
- Receiver Dimension (L*W*H): 430*190*51mm
- Net Weight: 2360g

■ Application

Conference, training, teaching, PA, wedding, small party

■ Product Content

- Receiver 1pc
- Handheld microphone..... 2pcs
- Audio cable..... 1pc
- Power adapter..... 1pc
- Antenna 2pcs
- Corner 1set
- 1.5V AA battery 4pcs
- User manual 1pc

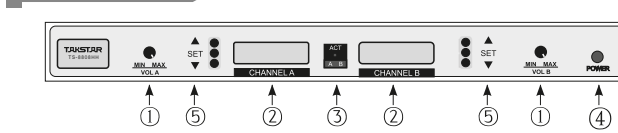
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■ Function Instruction

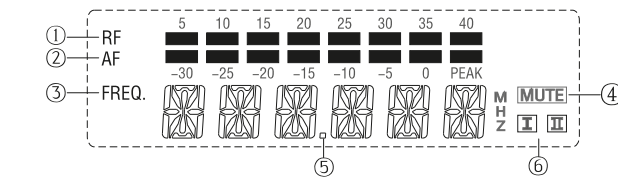
Receiver

Front panel:



- ① Volume control: it adjusts the output volume.
- ② LCD: It displays matching status, frequency and the receiving signal level.
- ③ Infrared matching window: It is used with SET button to transmit the frequency parameter to the transmitter.
- ④ Power switch: It turns on/off the receiver. When the receiver is turned on, LCD lights up.
- ⑤ Function button: it is used for frequency adjusting, matching and scanning.

LCD:



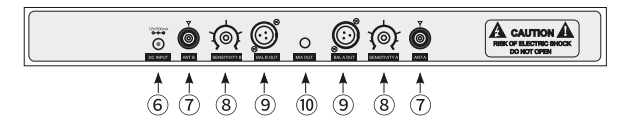
- ① 8 section RF level display: it displays the receiving signal level.

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- ② 8 section audio level display: it displays the audio signal level.
- ③ Frequency menu display: when FREQ lights up, it displays the current operation frequency.
- ④ Mute display: when MUTE lights up, this means the receiver is in mute status.
- ⑤ 6 character display: it displays the current information.
- ⑥ Channel selection display: it displays the current operation channel.

Rear panel:



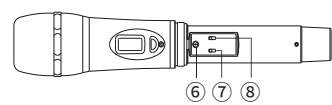
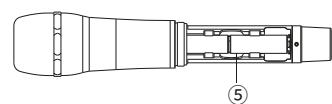
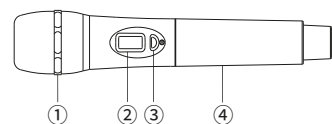
- ⑥ Power connector: it connects with 12V DC power supply with the input connector. The central pin connects with + voltage.
- ⑦ Antenna connector: it connects with external antenna to increase the operation range.
- ⑧ Sensitivity adjustment: adjustment range: 0-40dBm; The smaller the number is, the lower sensitivity is, and the closer the operation range is, but the higher anti-interference capability is, and vice versa.
- ⑨ Audio balanced output: XLR connector, two channel output signal.
- ⑩ Audio unbalanced output: type P connector, two channel combo signal output.

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Handheld Microphone

- ① Grille and cartridge: grille protects the cartridge, eliminates "pop" noise and avoids rolling when placed on the table.
- ② LCD Display: indicate frequency/channel and battery level.
- ③ Power Switch: Press 2 seconds to turn on the transmitter, and press 2 seconds to turn off.
- ④ Microphone Housing: assemble the wire-mesh cap and capsule on the top, with batteries, PCBA inside and antenna at the rear.
- ⑤ Battery Compartment: put in 2pcs AA batteries.
- ⑥ Infrared Data Synchronization Window: transmit the frequency signal to the transmitter by pressing the "SET" button on the receiver.
- ⑦ Locking Switch: lock the operation button. Switch to "ON" position, transmitter can not be turned off by the power switch.
- ⑧ Transmit Power Adjusting Switch: adjust the transmit power.



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■ Operation Instruction

- ① Before turning on the receiver, don't turn on the transmitter. Reduce the receiver volume, then press the receiver power switch for 3 seconds. When the receiver is powered on, LCD lights up and displays all characters and the receiving frequency.
- ② Before turning on the transmitter, check RF and AF level on LCD. If there is interference, adjust to another channel to avoid the interference.
- ③ Press the transmitter speech button shortly. LED lights up red. RF level meter of the receiver lights up.
- ④ Press the transmitter speech button for speech mode. LED lights up green. Speak to the microphone, the receiver AF level meter lights up. Press the transmitter speech button to exit the speech mode.
- ⑤ Press the transmitter speech button for 3 seconds. The transmitter turns off. Press the receiver button for 3 seconds. The receiver turns off.

Lock and unlock the system

Lock the system: refer to figure ① and press SET button for 3 seconds and it displays the interface (refer to figure ③). All the function buttons are locked (power switch excluded).

Unlock: press SET button for 3 seconds for unlocking and it displays the interface (refer to figure ④).

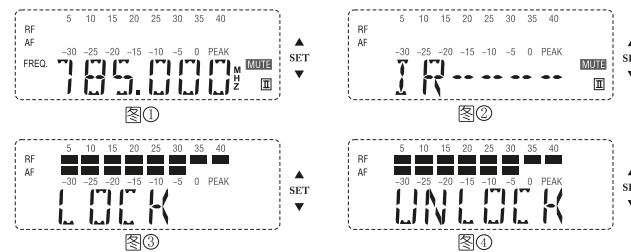
Frequency adjustment

- 1. Adjusting frequency manually
Refer to figure ①, shortly press "▲" and "▼" button to adjust the current operation frequency. When you adjust to the needed frequency, stop pressing and the frequency stops, then the frequency adjusting is successful.

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- Turn on the transmitter power switch. Point the transmitter IR window to the receiver IR window. Keep ACT with IR window in a straight line (distance range 10cm-50cm). At this time, press SET button, it displays matching interface and then matching search information. When the matching is successful, it changes to frequency channel display interface. If matching is unsuccessful, press SET match till matching is successful.
- 2. Auto-scanning operation
Refer to figure ①. Press the relative channel "▲" button for 3 seconds. The relative receiver channel automatically scans. The frequency changes. When the frequency without noise is scanned, the receiver automatically has infrared matching status (refer to figure ②). At this time, turn on the transmitter. Point IR window to AC.
(Note: when multiple units are used, the matched transmitter needs to be turned on, and then the system will scan the next receiver).



Cautions

- ① If the omni-directional antenna is used for the receiver. Keep the antenna 0.5m away from the wall (especially metal object).

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- ② The receiving range is relative to many factors. If there is no big metal part in the transmission direction, the transmission effect is better.
- ③ If the receiving condition is not so good, you can use the extension cable and external high gain antenna, or even antenna amplifier to improve the receiving effect.
- ④ If the receiver front panel is facing to the operation direction or the receiver is kept in the metal box, put the antenna to the front panel for better receiving effect.
- ⑤ During operation, if the transmitter has the LED lighting up red or flashing green, this means the low power voltage. Please replace battery in time.
- ⑥ If the transmitter will not be used for a long time. Take the battery out to prevent from microphone damaged.
- ⑦ Correctly adjust the distance from transmitter cartridge to the mouth. If the distance is too close, it leads to too much modulation and signal distortion. If too far, it leads to insufficient modulation and less S/N ratio. It is recommended to keep the distance 5~15cm.

■ Trouble Shooting

Problem	Reason
Transmitter or receiver has no indication	The transmitter battery is used up. The receiver power supply is not connected well.
Receiver has no RF signal	Transmitter and receiver are not in the same channel or out of the operation range.
There is RF signal but no audio signal	The microphone signal is not sent to the receiver or the receiver has too deep squelch setting.
Too loud audio background noise	The transmission modulation deviation is too small. Too low receiver output level or there is interference signal.
Audio signal distortion	The transmitter cartridge is too close to the mouth or the receiver output level is too high.
Short operation range, unstable signal	The receiver has too deep squelch setting, or the antenna is not set well or there is strong electromagnetic interference.

If you can not solve the problem, do not disassemble the product by yourself. Contact the local dealer or the factory please.

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■ Cautions

- To avoid electric shock, over temperature, catching fire, explosion, mechanical risk and hurt or property loss caused by improper use, please read the following items carefully before operation:
- 1. Before operation, make sure that this system power matches with that of the connected equipment. Adjust the volume to proper level during operation. Do not operate at high volume level to avoid hearing loss.
- 2. If abnormal phenomenon (smoke, abnormal smell) happens, please turn off the power switch and disconnect the power plug with power socket, and send the product to local dealer for maintenance.
- 3. Using battery of broken insulation material is forbidden to avoid short circuit. Please do not charge the non-rechargeable battery.
- 4. Put the waste battery into classification dustbin rather than used as toy by children or discarded directly to avoid potential danger or affecting the environment.
- 5. The product and accessories should be put in dry and ventilated place rather than humid or dusty environment. Prevent the product from fire, liquid, rain, water, over-colliding, throwing, vibrating, vent hole covered to avoid function destroyed.
- 6. When the product needs to be installed on wall or ceiling, please fix it tightly to avoid dropping risk.
- 7. Please abide by safety rules during operation. Do not use the product in the place prohibited by regulation or law to avoid accident.
- 8. Do not disassemble or repair the product by yourself to avoid hurt. If you have question or need service, please contact the local dealer.

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