

Product Name: WIRELESS MEETING MICROPHONE

Model: HT-860

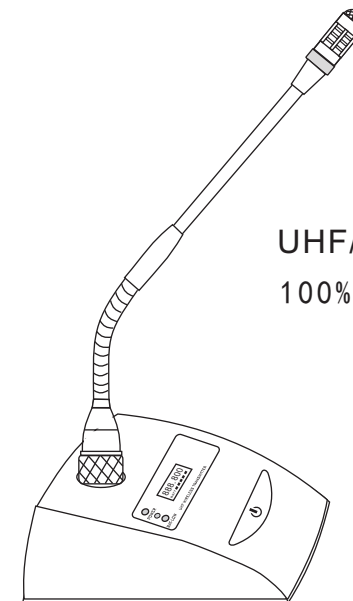
Dealer :

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Digital wireless conference microphone

## Operating manual



UHF/PLL/TONE-LOCK  
100% anti-interference

Best choice for meeting

Thanks for your support and trust of our company. We offer a varied range of wireless microphones for all applications and the range covers all situations in which microphones are implemented. All microphones designed with the latest Anti0EMI/RFI technologies. Please read the user manual carefully before use the products.

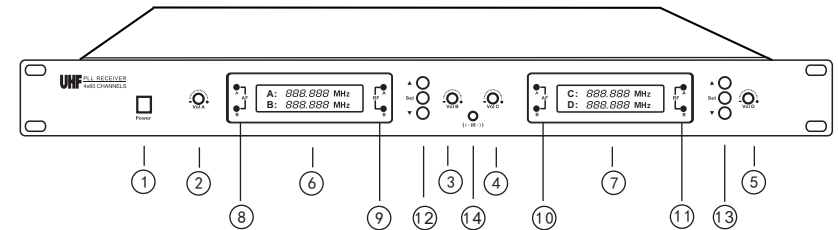
## Overview

With high flexibility and reliability, our UHF wireless meeting microphone system is an ideal choice for mobile conference systems. It offers simple operation, compact structure, elegant appearance, anti-interference as well as UHF, PLL and TONE-LOCK features. The wireless meeting microphone system can be perfectly integrated into any meeting rooms, without additional wiring. In addition, multiple devices can be used together.

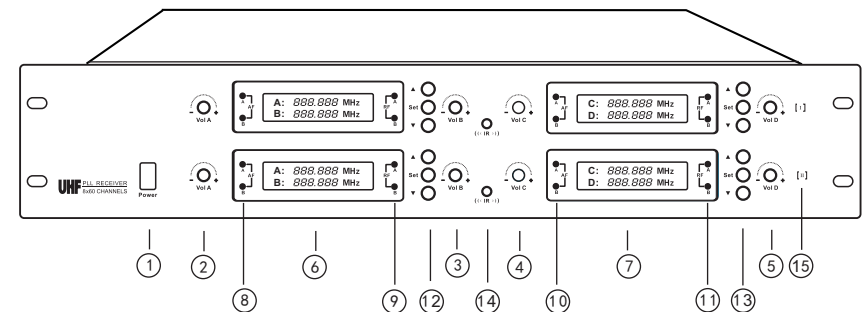
## Features

- \* Adopt UHF 550-980MHz PLL frequency synthesizer technology, adjustable transmitter frequency and power
- \* Adopt multi-channel high band and intermediate band frequency selective filtering, fully eliminate interference signal
- \* Built-in feedback eliminating technology which can decrease the feedback and noise effectively
- \* Built-in multiple noise detecting circuit and TONE-LOCK system to make sure the system has strong anti-jamming function
- \* Perfect performance with the best chips and components, adopt SMD original mount design, enhance the product quality and stability
- \* Automatic scanning and selecting the frequency, easy for installation and using.
- \* Operation distance up to 100 meters with the best condition, 50 meters in normal condition.

## Front View of Receiver



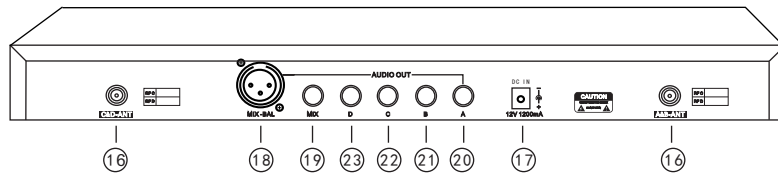
Front panel of 4 channel receiver



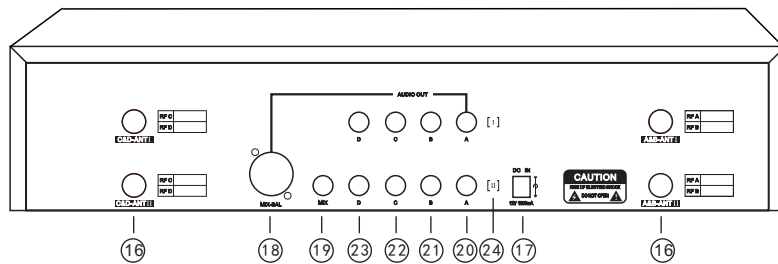
Front panel of 8 channel receiver

- |                                  |                                  |
|----------------------------------|----------------------------------|
| 1.Power switch                   | 11.RF indicator of channel C & D |
| 2.Channel A volume knob          | 12.Setting key of channel A & B  |
| 3.Channel B volume knob          | 13.Setting key of channel C & D  |
| 4.Channel C volume knob          | 14.Infrared Sensor: Broadcasts   |
| 5.Channel D volume knob          | IR signal to transmitter to      |
| 6.LCD display of channel A & B   | synchronize frequencies          |
| 7.LCD display of channel C & D   | 15.Group I and II for 8 channel  |
| 8.AF indicator of channel A & B  | receiver                         |
| 9.RF indicator of channel A & B  |                                  |
| 10.AF indicator of channel C & D |                                  |

## Rear View of Receiver



Rear panel of 4 channel receiver



Rear panel of 8 channel receiver

- 16. Antenna Socket
- 17. DC input (12V)
- 18. Channel A, B, C, D mix output (BAL/XLR)
- 19. Channel A, B, C, D mix output (UNBAL)
- 20. Channel A output
- 21. Channel B output
- 22. Channel C output
- 23. Channel D output
- 24. Group I and II for 8 channel receiver

## Operation of Receiver

1. Install the antenna to receiver with correct frequency, the angle between antenna and receiver should be vertical.
2. Connect the receiver power socket with the power adapter output jack.
3. Press the power switch for 1.5 seconds, LCD backlight is light; this indicator receiver power is on. Please adjust each channel's volume knob to the proper position to turn on the corresponding transmitter, RF LED indicator and TONE frequency LED will flash, it means signal has been received. AF LED will flash when speak with microphone transmitter. Hold the power switch for 2 seconds if you want turn off the receiver.
4. Channel frequency setting:
  - a). Press set key one time, LCD will display the frequency setting, user can press "UP" & "DOWN" key to set the frequency manual, please press set key again to save the setting
  - b). Press set key two times to enter MODE setting, user can use "UP" & "DOWN" key to select the CHANNEL and TUNE mode, in CHANNEL mode frequency band is 250kHz, total 60 point, in TUNE mode frequency band is 50kHz, total 300 point. User can save the setting with "SET" key press.
  - c). Press set key three times to enter SQ setting. User can use "UP" & "DOWN" key to select the SQ (-70~-95dBm), each step 5dBm, and then press "SET" key to save the setting.
  - d). Short press set key to enter the setting menu and then long press set key for 2 seconds to switch Channel A to Channel B setting. (Other channels same setting method)
5. IR sync
  - a). Short press "UP" key one time to enter channel A or channel C IR sync function.
  - b). Press "UP" key again for 2 seconds to enter automatically frequency scanning and selecting, and then use transmitter IR sensor aim at the receiver's IR port to transmit the parameter, receiver will save the setting and exit automatically by any key if the IR sync succeed

- c). Short press “DOWN” key one time to enter channel C or channel D IR sync function.
- d). Press “DOWN” key again for 2 seconds to enter automatically frequency scanning and selecting, and then use transmitter IR sensor aim at the receiver's IR port to transmit the parameter, receiver will save the setting and exit automatically by anykey if the IR sync succeed

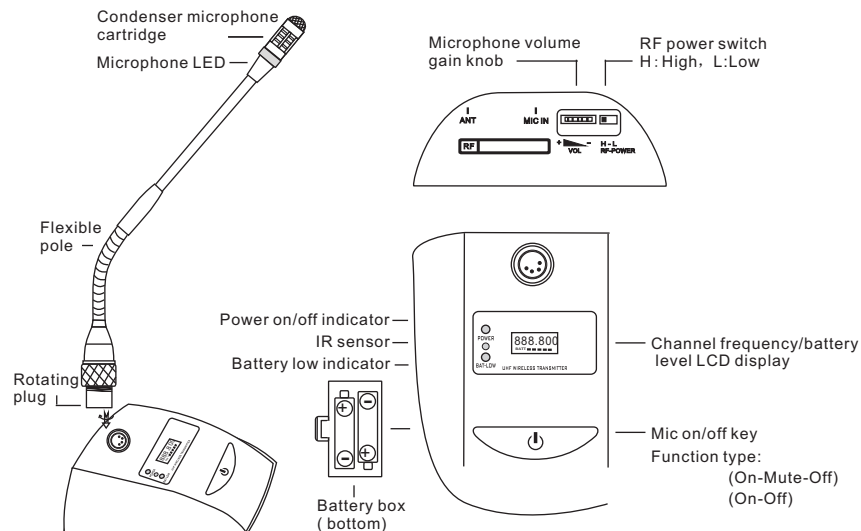
6. Volume adjustment: Please adjust the volume with the knob to the proper position to get the best sound level.

7. RF PWR adjustment of microphone transmitter: We suggest low level if the distance between receive and microphone transmitter less than 20 meters to save the battery power, and high level if the distance more than 20 meters.

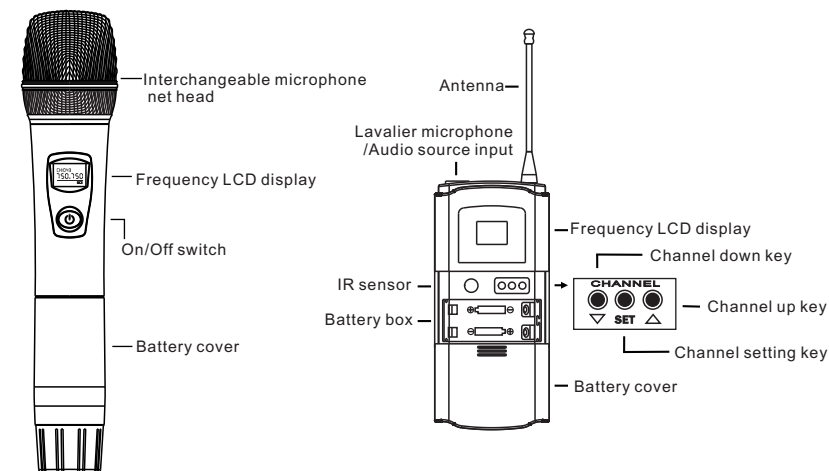
(We have setting the frequency and channel before send the products, please do not change the setting if unnecessary)

## Microphone Transmitter (option)

### A: Desktop Meeting Microphone



### B. Handheld and Lavalier Microphone Transmitter



### Operation of Desktop Meeting Microphone Transmitter

1. Open the battery cover and put into two pieces AA 1.5V batteries, 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.)
2. Press power switch, the power indicator is light; it means microphone transmitter work normally.
3. User can set the microphone volume with volume gain knob.
4. User can set the microphone transmitter RF power with the switch; correct setting can save the battery power and reduce the influence.
5. Turn off the microphone with power switch for 1 second.

## Technique Specifications

### 1. System Parameter:

Working frequency: UHF 615,000-659.750 MHz

PLL technology:

4 group system frequency, each group 60 points adjustable

4 group \* 60=240 frequency point sharing

Frequency stability:  $\leq \pm 10$  PPM

Dynamic range:  $> 105$  dB

T.H.D.:  $< 0.5\%$

Frequency response: 50Hz~18 kHz

Audio output: Balance output: 0~600mV;

Unbalance output: 0~300mV

Tone frequency: 32K~51.2 kHz

### 2. Receiver Parameter

Carrying frequency: UHF 615,000-659.750 MHz

Power adapter supply voltage: AC110V-AC230V 50/60Hz

DC input voltage: DC12V, 1200mA

Power consumption: 8W

S/N Ratio:  $> 105$  dB

T.H.D.:  $< 0.5\%$

Frequency response: 50Hz~18 kHz

### 3. Transmitter Parameter

Carrying frequency: UHF 615,000-659.750 MHz

RF output consumption -2.9 dBm

Input audio source: Mic in/Line in

Modulation mode: FM

Max Modulation:  $\pm 45$  kHz

Higher harmonic: less than 60dB of the main wave benchmark

Power supply: 3V (2x AA 1.5V batteries or 1.2V-1800mAh  
rechargeable batteries)

Battery Life: 8 hours

## 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

## Trouble Shooting

Problem/Status	Solution
No sound(Status: No receiver RF signal )	<ul style="list-style-type: none"><li>* Make sure transmitter and receiver's power switch "ON" position</li><li>* Check the battery polar</li><li>* Check the antenna of the receiver</li><li>* Make sure there are no obstruct between antenna and transmitter</li></ul>
No sound (Status: RF & AF signal active)	<ul style="list-style-type: none"><li>* Check receiver volume knob</li><li>* Check the connection of receiver, amplifier and mixer.</li><li>* Check the volume knob of amplifier and mixer</li></ul>
No sound (Status: RF signal active, no AF signal)	<ul style="list-style-type: none"><li>* Check transmitter 's power</li><li>* Exchange the microphone if necessary</li></ul>
Distortion or unwanted noise bursts	<ul style="list-style-type: none"><li>* Remove RF interference (CD players, computers, in-ear monitor system, etc.)</li><li>* Change receiver and transmitter to a different frequency</li><li>* Reduce transmitter gain</li><li>* Replace transmitter battery</li><li>* If use multiple systems, increase the frequency band between systems</li></ul>
Can not turn on/off transmitter	<ul style="list-style-type: none"><li>* Replace the battery</li></ul>

### 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.

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

Dealer :