

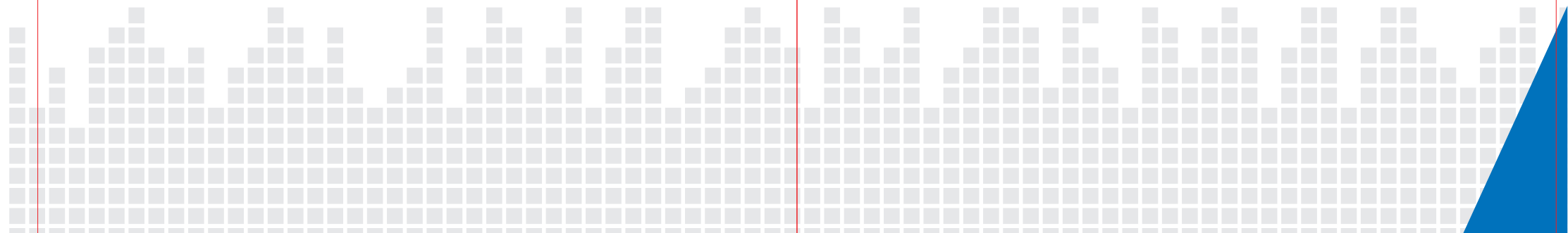
# UHF

TRUE DIVERSITY WIRELESS MICROPHONE



# USER GUIDE

TRUE DIVERSITY WIRELESS MICROPHONE



## Product features

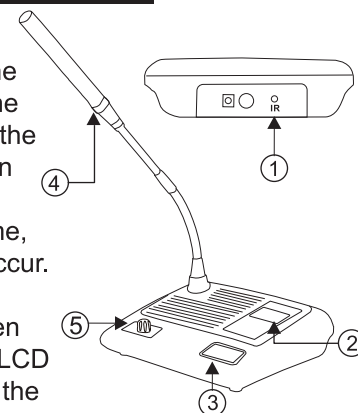
1. The intelligent unique ID recognition technology, you can use multi-branch distribution. Digital and analog hybrid transmission, no digital audio transmission delay defects.
2. The transmitter power can be adjusted, is suitable for various occasions, especially for KTV
3. Using the infrared transmitter synchronization technology, the operation is simple and convenient.
4. Using dedicated frequency range for UHF microphone, without interference from other industrial frequencies.
5. 100 frequencies can be adjusted.
6. Super audio data pilot control, effectively prevent the impact sound other radio frequency interference and transmitter switch machine.
7. The transmitter uses 2 X 1.5v AA battery, battery purchases quick and easy.
8. With balanced and unbalanced audio output, convenient connection with various audio equipment.
9. Low power transmitter indication lights flashing.
10. Dual-transmitter system configuration, easy to use in a variety of occasions
11. Receiver transmitter parameters display for easy monitoring.

## Contents

|                                                              |     |
|--------------------------------------------------------------|-----|
| Products features-----                                       | 1   |
| Notice of use /Situation of use / Environmental factors----- | 2   |
| Functions of receiver-----                                   | 3-4 |
| Handheld microphone (Transmitter)-----                       | 5   |
| Specifications and parameters-----                           | 6   |
| Packing list-----                                            | 6   |
| Tips -----                                                   | 7   |
| Common faults and solutions-----                             | 8-9 |

## Conference microphone base (transmitter)

- ① Infrared sync window  
The infrared sync window can receive the sync data sent by the receiver, so that the transmitter operates at the frequency of the receiver. When using the synchronization function, only one microphone can be used for synchronization at the same time, otherwise co-channel interference will occur.
- ② LCD display frequency  
Display frequency and battery level, when the microphone power is turned on, the LCD backlight lights up, and after 5 seconds, the backlight goes out.
- ③ Power switch  
Short press the boot, long press for 3 seconds to shut down.
- ④ Light-press once again in the silent mode, the light of the light ring will be extinguished.
- ⑤ Volume adjustment



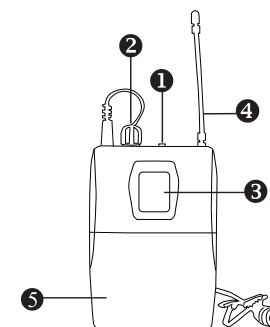
## Conference microphone screen

- ① Frequency indication
- ② Battery capacity indication, when  flashes, siad the battery is exhausted. Please replace the battery as soon as possible.
- ③ Radio frequency intensity indication.
- ④ Audio intensity indication.



## Headset and Clip transmitter

- ① Power on/off
- ② Volume rotation
- ③ LCD display
- ④ Transmitting antenna
- ⑤ Battery cover



## Common faults and solutions

### 3. Microphone distortion

#### Reason

- Receiver is normal, microphone is dropped or collision
- Transmitter sensitivity too high
- Receiver audio output too high

#### Solution

- Check the battery power is enough or not. Or instead of new cartridge
- Adjust the sensitivity to a reasonable range
- Decrease the audio output level

## More help

- If system have problem not in the above list, please contact the local dealer or manufacturer in China.
- Don't put the microphone to the place where can be direct rainwater or wet place and can not be exposed to the sunshine or high temperature, can not crash, throw and shake.
- Please don't open the microphone inside by yourself in order to avoid touching the wire or damaging the machine. That will loss guarantee's right and probable to effect the system operation.
- Only can use the power adapter supplied by this machine, please confirm the input voltage is the same as adapter. It will damage machine if you use other factory adapter.

Products in continuous improvement, the parameter may change, and we will not notice. Images may differ in product, please prevail in the real product.

## Notice of use

Thank you for buying our excellent wireless microphone series products. Before you use our products please read this user instruction. This product is a professional wireless microphone need to be installed and maintained by qualified personnel. To learn more information in this guide is not listed, please call your local authorized dealer for more detailed information.

## Situation of use

This product is specifically designed for use in KTV rooms and other entertainment place.

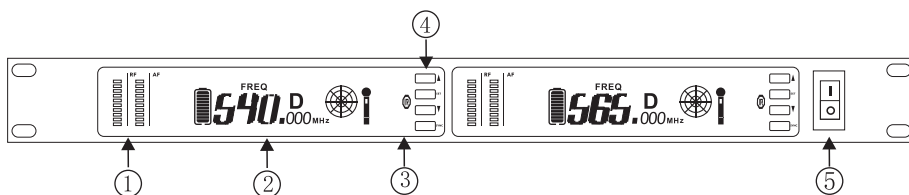
## Environmental factors

This product is used for radio frequency transmission, easy to be interfered by external wireless signal. All products we manufactured are rigorously tested qualified product, such as the emergence of instant offer frequency etc. Phenomenon in the process of installing and using, the vast majority of case is the system frequency products by wireless signal source interference effect of the external environment. If you encounter the above situation, please carefully investigation following the external environment and internal environment of install interference factors, system setting, and make corresponding adjustment.

- Whether the existence of places around the television transmission tower, a large mobile phone transmitter base station or other strong sources of interference?
- Whether install a cell phone signal amplifier?
- Whether installed high-frequency wireless intercom system or other brands of wireless microphone systems?
- Whether is possible have signal shielded or weakened metal objects surrounding system?
- Whether the receiver antenna is too close to the computer, VOD or other RF interference occurs machines?
- Whether there are significant obstacles between the receiver and transmitter
- Whether surrounding environment is too wet.

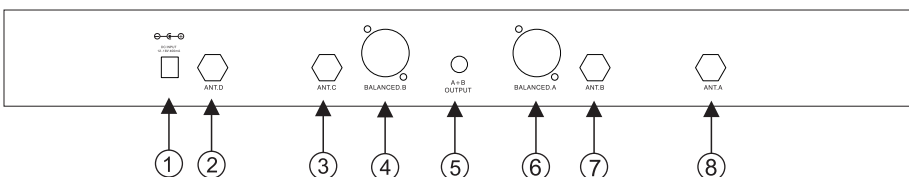
## Functions of receiver

### The front panel:



- ① AF/RF indicator
- ② LCD indicator
- ③ Infrared synchronization window
- ④ Volume & Set
- ⑤ Power

### The back panel:



- ① The socket for power adapter
- ② The socket for antenna of channel D
- ③ The socket for antenna of channel C
- ④ XLR balance output for channel B
- ⑤ Mixed audio ( φ 6.35mm) unbalance output
- ⑥ XLR balance output for channel A
- ⑦ The socket for antenna of channel B
- ⑧ The socket for antenna of channel A

The internal circuit of the receiver is more sophisticated, so stay away from CD, DVD and other electromagnetic radiation strong equipment, and away from radiator, heater also.

## Common faults and solutions

When using a wireless microphone mute or other abnormal sounds phenomenon occurs, we must find out problem is the wireless microphone system or PA system? Choose another normal wireless microphone to test wireless microphone system. if normal, indicating the problem is wireless microphone itself; if the same problem as abnormal one, the problem is the PA system, the following are common faults and solutions for suggestion.

### 1. Wireless microphone no sound

#### Reason

- Microphone switch is on OFF
- Amplifier power switch is on OFF
- Receiver power switch is on OFF
- Amplifier MIC sound is on Minimum position
- Speakers not connected well
- Holding the microphone bottom infrared emission
- Microphone battery no power

#### Solution

- Microphone switch turn ON
- Amplifier power switch turn ON
- Receiver power switch turn ON
- Amplifier MIC sound turn bigger
- Check the speaker cable, keep good condition
- Don't holding the microphone bottom infrared emission
- Change the battery

### 2. Wireless microphone noise

#### Reason

- Speakers not connected well
- Microphone signal is interference
- Distance between the mouth and the microphone is too close
- Amplifier not connected well

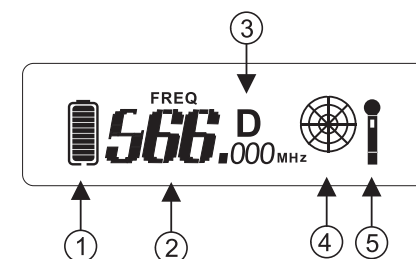
#### Solution

- Speakers not connected well
- Microphone signal is interference
- Distance between the mouth and the microphone is too close
- Amplifier not connected well

## Tips

- Not used, please put the switch to off position. Please take away the battery when not used for long time.
- When use the handheld transmitter, should hold the middle of microphone, if close to the head of microphone, it will effect the cartridge sound, if too close to the bottom antenna position, it **will** lower the transmit efficiency and distance.
- Adjust the distance from your mouth and microphone, can increase or decrease the voice.
- The waist attached transmitter adopt 1/4 wavelength whip antenna, the antenna can not touch body and connect with the microphone cable. Or it will influence receiving signals.
- When use the waist attached transmitter should adjust the sensitivity to proper position according to different voice sources and microphones.
- When use the clip microphone should be fixed middle position to avoid the noise caused by head turns and the microphone also should be fixed to avoid noise caused.
- When use the clip microphone for amplification at present. Selection for directivity cartridge, speaker and layout is based on decreasing feedback principle, Select feedback machine when in need.
- Headset microphone usually near the mouth, adjust the distance from microphone and mouth can increase or decrease the voice.
- If not use the system for long time, please take away the power plug and battery of transmitter.
- Notes for the people who internal with electronic cardiac or related instruments in body: all RF source will affect this electronic instruments function. All wireless microphones with transmitter, the power is small (lower 0.05w output), will not cause interference, the distance of wireless microphone and the electronic instruments morn than several inch. If you have any question when using this system or any RF system, please contact with your doctor or the supplier of medical instruments.

## SCREEN FOR RECEIVER



- ① Indication for power of battery ② Frequency display  
③ Indication for Channel ④ Indication for signal search  
⑤ Indication for microphone symbol

When the battery symbol flashes, said transmitter battery is going to run out.

## RECEIVER FREQUENCY OPERATION GUIDE



1. The interface without flashing or operation, short press the  SET button to enter the manual frequency. this time with the handheld frequency to the same frequency.
2. The interface without flashing or operation, short press  SET twice in a row to enter automatic search function.
3. The interface without flashing or operation, short press the  "SET" three times in a row to receiving the sensitivity, then press  ▲ or  ▼ key choose sensitivity.
4. The interface without flashing or operation, long press  "SET" to lock operation or unlock operation.
5. The interface without flashing or operation, short press  ▲ is the volume +.
6. The interface without flashing or operation, short press  ▼ is the volume -.
7. Sync short press to enter infrared frequency.

## Handheld microphone(Transmitter)

① Infrared synchronization window Infrared synchronization window can receive synchronous data sent from the receiver, the transmitter to work in the frequency of the receiver.

When using synchronization, at the same time, can only synchronize one microphone, other microphones can't use as with the same frequency.

② LCD display

Display frequency and battery usage, when power is turned on, LCD back light lit, five seconds back light turns off.

When the back light blinks that indicate battery is dead, replace the batteries as soon as possible.

③ Power switch, mute button

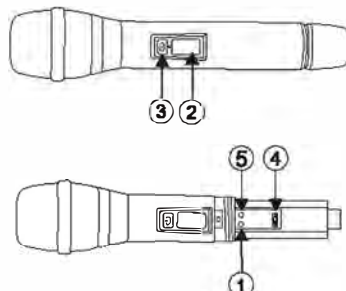
Short press: power turn on, the power on Press mute / unmute. Press 3 seconds: turn off.

④ Transmit power adjustment

RF H high power, RF L low-power, short distance use, tuned to RF L low-power state, to reduce the transmit power, interference from other devices and reduce power consumption, keep battery for longer time.

⑤ Intelligent mute switch

Short press the intelligent mute switch to turn on or off the automatic mute function, intelligent mute is turned on indicated "P", no indicated when turn off.



### Intelligent microphone

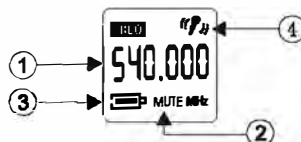
In the intelligent microphone mode

1. microphone automatically enters the mute mode, when the microphone does not operate for more than 5 seconds, if microphone have the operation automatically resumes the working mode;

2. microphone does not operate for more than 5 minutes, the microphone automatically enters the sleep mode and stops transmitting signals to the receiver, if microphone have operation automatically enters working mode;

3. Microphone no operate for more than 15 minutes, the system will automatically turn off the microphone and need to be manually switched on to work normally.

## SCREEN FOR HANDHOLDER MICROPHONE



① The indication for frequency.

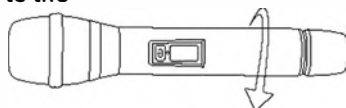
② "Mute" flashes that means it has been mute.

③ Indication for power of battery. It have been changed to new one when  is flashing.

④ Intelligent microphone mute indication. turn on have this logo

## Battery replacement

Counter clock wise rotation of the tube body to the microphone, threads are screwed out, back to slide body is exposed out of the battery slot in the correct battery, replace the battery.



System microphone by acoustic devices and sophisticated electronic device composition use caution when custody, forbid dropping, beat the severe impact, otherwise, microphones are easy to be broken.

## SYSTEM FEATURES

Carrier frequency: UHF540-554.75MHz

Channel number: 100Channel,

Frequency interval: 50Hz~18 KHz

RF mode: High-performance integrated IC

RF bandwidth: 24.75MHz

SNR: >105dB

Dynamic range: >100dB

THD: <1.0%@1KHz

Working temperature range: -18~50℃

Working range: About 150M

## Receiver

Receive mode: High-performance integrated IC and Double demodulation true diversity

Sensitivity range: >-105dB/m(20dB SNR)

Display mode: LCD

Audio output : Two channel Mixed output/Two channel balance/Unbalanced

## Transmitter

RF frequency accuracy:  $\pm 50\text{ppm}$  <10KHz

Frequency offset: 25KHz

Harmonic: <-45dB/c

Output power: >10dB/m

Display: LCD(Hand-held microphone)

Current consumption: <150mA@3V

Power supply: AA 1.5V \*2PCS

Battery life: > 8 hours

## Packing list

1. Receiver: 1pcs

3. Audio cable: 1pcs

5. Antenna: 4pcs

7. Instruction Book: 1pcs

2. Hand-held microphone: 2pcs

4. Power Adapter: 1pcs

6. 1.5V AAbattery: 4pcs

**FCC Warning**

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 inte rference 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.

NOTE: 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 interferenceto 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.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment

**Radiation Exposure Statement**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.