

## Functions introductions

Our professional wireless microphone system have the below characteristics: the modular circuit wireless microphones are easy to be interfered due to many reasons, especially from the harmonic wave from CD/VCD/LD etc, in order to solve this problem, we design this professional wireless microphone to adopt ordinary methods of increasing frequency, multi-level narrow band and mid-frequency filtering, and specially design mute function, to keep away from other system's interference and signal, this system can also adopt many ways to improve the performances.

## Main characteristics

1. Use UHF 500-599MHz to avoid interference.
2. Adopt multilevel narrow band high frequency and mid-frequency filtering to mute interference.
3. Wireless antenna, practical and optimized.
4. Low power indicator to show power conditions.
5. Special design microphone switching interference muting circuit.
6. Adopt audio compress and extend technology to reduce noise, increase dynamic range.
7. Whistle restraining functions.
8. Special noise mute functions can reject external interference when using many devices together.
9. High quality units and SMT technology can ensure the stability.
10. Long working distance, 100meters in ideal condition and 40-80 meters in complex environment.
11. Suitable for Stage, Dancing hall, Meeting room, Church and Home Entertainment.

## Receiver operation

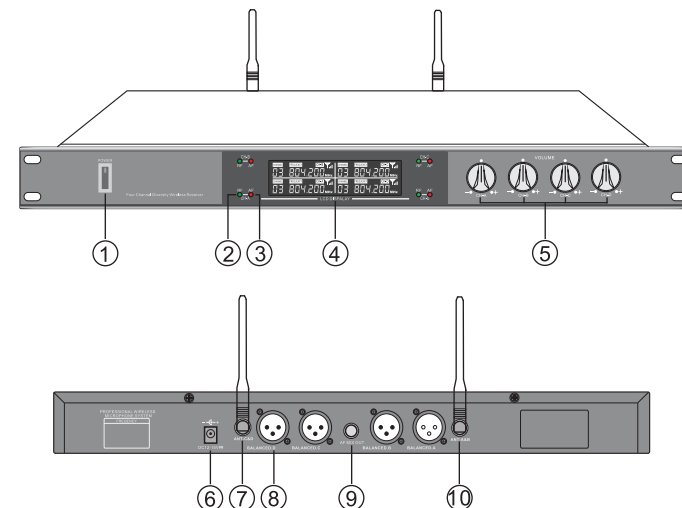
1. Connect the antenna to make it vertical.
2. Plug in DC power adapter and connect to the switch, power for adapter is 100-230V 50Hz.
3. Audio output connection:  
Mix output: connect the audio cable to the AF MIX OUT port and the MIC IN or AUX IN port of mixer/amplifier.
4. Switch on receiver power supply, the power indicator will light up.
5. After turning on the receiver, the RF indicator will light up, the receiver output audio signal and the volume can be adjusted by volume controller, at the same time, AF indicator will light up.

### Attentions for receiver installation

1. The receiver should be kept 1 meter away from the ground.
2. The receiver should be kept 1 meter away from the wall.
3. Pull out the antenna to ensure the receiving performance.

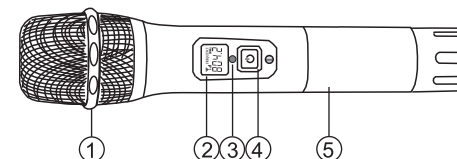
## Transmitter operations

1. Open the battery cover, install 2 pcs of 1.5 V battery correctly.
2. Turn on the handheld and the green indicator will light up to be in working state.
3. When the battery is low, the indicator will be yellow (can still work for a while), when it turns to be red color, the battery should be changed (When the red light is out, the handheld will stop working, please turn off the handheld).
4. Please take out the battery when you don't use the microphone for a long time.



### Receiver

1. Power switch
2. CH-A(B&C&D) Rf signal indicator
3. CH-A(B&C&D) Audio signal indicator
4. LCD Display
5. CH-A&B&C&D Volume
6. DC Power input
7. CH-C&D Antenna port
8. CH-D(C&B&A) XLR audio output
9. 6.3mm Mix audio output
10. CH-A&B Antenna port



### Handheld

1. Capsule (Microphone)
2. LCD Display
3. Low power indicator
4. Power switch
5. Battery cover

## Technical data

- |  |                                    |
|--|------------------------------------|
| 1. Comprehensive functions             | 2. Fixed receiver                  |
| Carrier wave frequency: UHF500-599MHZ  | Working voltage: DC 12V~15V==      |
| Frequency stability: $\leq \pm 20$ PPM | Power consumption: 3W              |
| Dynamic range: >98dB                   | S/N ratio: >95dB                   |
| Distortion: <0.5%                      | Image interference ratio: >85dB    |
| Frequency response: 50HZ-16KHZ         | Neighbor interference ratio: >85dB |
| Audio output: 0-300mV                  | Receiving sensitivity: >10dBu      |

### 3. Transmitter

Transmitting power: +10dBm  
Modulation mode: FM  
Higher harmonic: 50db Lower than main wave base  
Working power : Handheld Microphone: 1.5V(AA)X2  
Working hours: 8 hours  
Power switching noise: Perfect switching mute

## Attentions

1. Avoid to stay in the dead angle to ensure the signal receiving condition.
2. Don't throw, break or chuck when using the handheld.
3. Avoid directly expose to the strong sunlight or water drop and keep away from bottles with water or liquid.
4. Don't disassemble without permission, some high voltage units may cause dangerous accidents.
5. In order to keep aeration and good receiving conditions, the receiver should be kept 1 meter away from the ground and 1 meter away from the wall.
6. Don't put fire close to the receiver for example bougie.
7. Don't throw the waste battery everywhere, keep them in the collection dustbin.
8. In order to keep the device working normally, ensure the temperature at -0 --+45.

If you purchase more than 2 sets wireless microphone and need to use at the same time, please choose different frequency models, if the frequency are the same, keep them at least 100 meters away from each other, so as to avoid interference.

# SINGTRONIC

## UHF-3500

### User Manual

Four Channel Wireless Microphone System