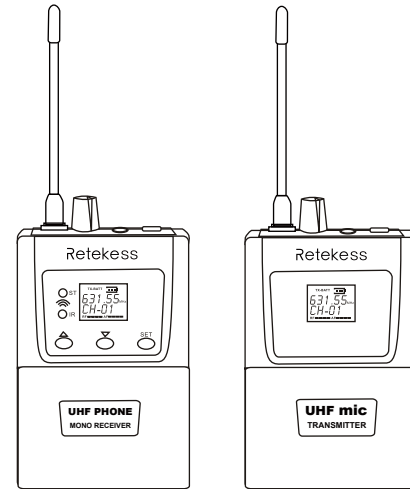


# Retekess



## OPERATING MANUAL

### PROFESSIONAL SIMULTANEOUS TRANSLATION TRANSMITTING SYSTEM

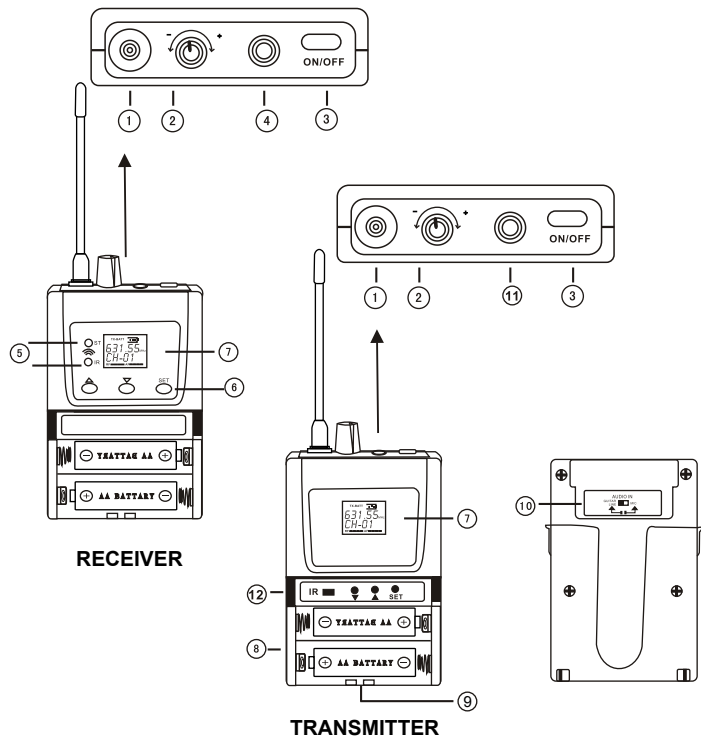
**Henan Eshow Electronic Commerce Co.,Ltd**

Add: Room 722, Sanjiang Building, No.170 Nanyang Road,  
Huiji District, Zhengzhou, Henan, China

Facebook: [facebook.com/Retekess.ru](https://www.facebook.com/Retekess.ru)

E-mail: [support@retekess.com.ru](mailto:support@retekess.com.ru)

## FUNCTION



- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| ① Antenna                         | ⑦ LCD display                     |
| ② Volume control knob             | ⑧ Battery case                    |
| ③ Power switch: ON/OFF            | ⑨ Battery (AA*2pcs) charging port |
| ④ Line output 3.5mm jack (stereo) | ⑩ Audio out: guitar line/mic      |
| ⑤ IR sending port                 | ⑪ Line input 3.5mm jack (mono)    |
| ⑥ UP/DOWN/SET key                 | ⑫ IR IN receiving port            |

## FEATURES

This series wireless microphone, it is 32 frequencies PLL for free selection which avoid a stable carrier signal that helps to avoid interference with other frequency channels and allows for easy access to multi-frequencies. The PLL-controlled system provides highly stable. Users can choose from 32 frequencies.

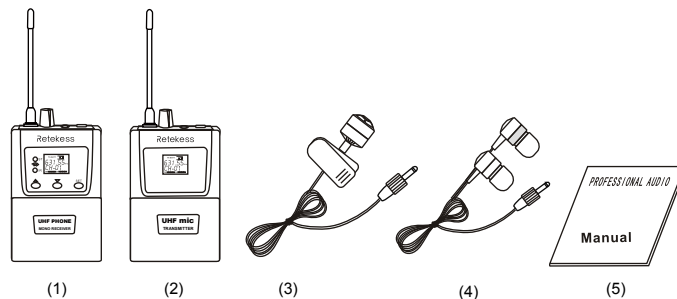
## PRODUCT INTRODUCTION

### MAIN SPECIFICATION:

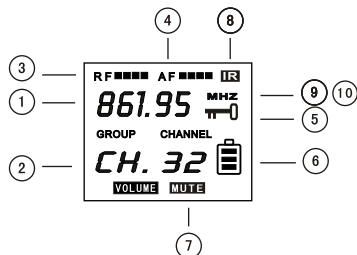
- 1) PLL phase locked loop, built-in 32 frequencies within 12.4MHz band.
- 2) With digital LCD including frequency, channel and battery voltage.
- 3) S/N ratio of compander circuit: >90dB
- 4) 2xAA 1.5V alkaline batteries
- 5) It adopts soft antenna, safety and not easy to break
- 6) With advanced TONE-LOCK technology, the leader for strong anti-interference.

## SYSTEM COMPONENTS


- 1) Receiver: 1PCS
- 2) Transmitter: 1PCS
- 3) Clip condenser microphone: 1PCS
- 4) Double channel earphone: 1PCS
- 5) Manual: 1PCS



## LCD DISPLAY OF TRANSMITTER

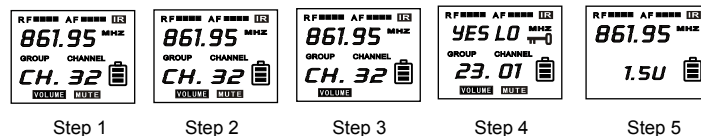


### Instruction of LCD (transmitter and receiver)

- 1- Frequency display: 885.550
- 2- Channel display: CH01
- 3- RF power output: low power display RF ■■■, high power display therefore ■■■■■.
- 4- AF input: level ■■■■■ from left to right, indicate the AF input increasing, AF-means no signal input.
- 5- LOCK symbol “

3

## LCD OPERATION



### LCD OPERATION (transmitter and receiver)

- Step 1: Push SET button once to begin operating frequency selection, then push UP button to increase required frequency, or push DOWN button to reduce frequency.
- Step 2: Push SET button again to open the RF power selection function, then push UP button to select HIGH power operation, or push DOWN button to select LOW power operation.
- Step 3: Push SET button again to open the Microphone Gain selection function. It should normally indicate 60, and is not adjustable.
- Step 4: Push SET button again to open the LOCK selection function. Push UP to select LOCK, or push DOWN to UNLOCK. After being set to LOCK, this function prevents accidental changes to any other functions. For example, once LOCK is selected, the frequency channel cannot be changed in Step 1.
- Step 5: Push SET button again to open the battery type selection function, then push UP button to select 1.5V Alkaline Battery operation, or push DOWN button to select 1.2V Rechargeable Battery operation.

### Remarks:

Each time the SET button is pressed, the previous selection values will be saved to memory. There is a 5 second delay after the Green LED is displayed. If there are no changes after 5 seconds, the display will revert to the main menu without any changes being recorded.

## OPERATION

- 1) Open the battery cover, in accordance with the correct polarity into 2\*1.5V battery.
- 2) Press power switch, power lamp lighting then going out, it means that the receiver is on normal working. If the red lamp always lighting and corresponding LCD display BAT under 2 segments, it means that the battery is low and advise the user to change the battery at once.
- 3) The receiver include voice again adjusting device can follow each person's sound.
- 4) AF output selecting switch. According the use of AF output signal to select the line output (high impedance, low level output) or earphone output (100mw, 32Ω low impedance output), to make sure that the signal can be at it's best and without any distortion.
- 5) Channel frequency set: To facilitate the large number of users using the system, at the first channel's frequency need reasonable set by group. The same place can't use same frequency. Channel frequency set follow below: press SET key first display screen digital lashes, then press ▲▼ Key until get to right frequency, then stop press 5 second, the receiver will auto-save & lock the result of setup.
- 6) 2.4V charging connector, it is to charge for 2\*AA 1.2V battery. Both save money and easy to moving use. The charging time depends on it's capacity, it is advised to use the charging battery with 1500mAh. And it's charging time is 10-12 hours.

## NOTES OF OPERATION

- 1) The battery working time is depend on earphone output volume be coming higher, the current consumption will be more, the battery working time will be less. So please select the earphone with high sensitivity, it is more better to over 110dB/MW.
- 2) If it is not used for long time. Please take out the batteries to avoid the battery leachate to mar the inner circuit or accessories.

## SPECIFICATION

### 1- Clip mic

Type: condenser

Polar pattern: uni-direction

Frequency response: 20Hz-20KHz

Sensitivity: -48Db±2Db

Output impedance: ≤680Ω

S/N ratio: >58dB

Power supply: DC 1.5V-10V

Cable length: 1M

Output connector: Φ3.5mm mono plug

## 2- TRANSMITTER

Frequency range: 500-980MHz (10 groups)

Band width: 12MHz

Oscillation: PLL synthesized

Channel resolution: 400K

Stability: ±0.005% 0 C-50 C

RF radiation: 10mw(H), 6mw(L)

Deviation range: ±50KHz

Frequency response: 50Hz – 15 KHz ± 3dB

AF input: Φ3.5mm jack

Power: 2pcs 1.5V AA batteries

Continuous working time: 8 hours around (by middle volume controlled)

Rated power: 130mA

Dimension: 90(L)\*63(W)\*22(H) mm, antenna: 82mm

Wight: 95G (without batteries), 145G (with batteries)

## 3- ECEIVER

Frequency range: 500-980MHz (10 groups)

Band width: 12MHz

Oscillation: PLL synthesized

Channel resolution: 400K

Stability: ±0.005% 0 C-50 C

Modulation mode: FM

Max deviation range: ±65KHz

Frequency response: 50Hz – 15 KHz ± 3dB

Output jack: Φ3.5mm earphone jack

Battery power: 2pcs 1.5V AA batteries

Continuous working time: 8 hours around (by middle volume controlled)

Rated power: 130mA

Dimension: 90(L)\*63(W)\*22(H) mm, antenna: 82mm

Wight: 95G (without batteries), 145G (with batteries)

## 4- EARPHONE SPECIFICATION

Type: mono earphone

Speaker's diameter: 9mm

Sensitivity: 103±3Db/MWOT 1 KHz

Impedance: 32Ω

Frequency response: 20Hz-22KHz

Rating output power: 100mw

Plug: Φ3.5mm

## WARNING



ATTENTION!

Before using this radio, read this guide which contains important operating instructions for safe usage and RF energy awareness and control for compliance with applicable standards and regulations.

### Local Government Regulations

When the radios are used as a consequence of employment, the Local Government Regulations requires users to be fully aware of and able to control their exposure to meet occupational requirements. Exposure awareness can be facilitated by the use of a product label directing users to specific user awareness information. Your Reteless radio has a RF Exposure Product Label. Also, your user manual, or separate safety booklet includes information and operating instructions required to control your RF exposure and to satisfy compliance requirements.

### Compliance with RF Exposure Standards (If appropriate, Reference to the actual product's Safety Marking)

Your Reteless radio is designed and tested to comply with a number of national and International standards and guidelines (listed below) for human exposure to radio frequency electro-magnetic energy.

### FCC ID

The FCC ID means: This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environments at operating duty factors of up to 50% talk-50% listen and is approved for occupational use only.

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.

Warning: 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 interference to 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 CE marking means: Hereby, Henan Eshow Electronic Commerce Co.,Ltd. declares that the radio equipment type is in compliance with the RED Directive 2014/53/EU and the ROHS Directive 2011/65/EU and the WEEE Directive 2012/19/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.tivdio.com](http://www.tivdio.com)

### IC ID

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation of the device.

In terms of measuring RF energy for compliance with these exposure guidelines, your radio generates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

### Avoid Choking Hazard



Small Parts. Not for children under 3 years.

## Protect your hearing



- Use the lowest volume necessary to do your job.
- Turn up the volume only if you are in noisy surroundings.
- Turn down the volume before adding headset or earpiece.

## Turn off your radio power in the following conditions:



- Turn off your radio before removing (installing) a battery or accessory or when charging battery.
- Turn off your radio when you are in a potentially hazardous environments: Near electrical blasting caps, in a blasting area, in explosive atmospheres (flammable gas, dust particles, metallic powders, grain powders, etc.).
- Turn off your radio while taking on fuel or while parked at gasoline service stations.

### To avoid electromagnetic interference and/or compatibility conflicts

- Turn off your radio in any facility where posted notices instruct you to do so, hospitals or health care facilities (Pacemakers, Hearing Aids and Other Medical Devices) may be using equipment that is sensitive to external RF energy.
- Turn off your radio when on board an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

## Avoid Burns



### Antennas

- Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with the skin when the radio is in use, a minor burn can result.

### Batteries (If appropriate)

- When the conductive material such as jewelry, keys or chains touch exposed terminals of the batteries, may complete an electrical circuit (short circuit the battery) and become hot to cause bodily injury such as burns. Exercise care in handling any battery, particularly when placing it inside a pocket, purse or other container with metal objects.

### Long transmission (If appropriate)

- When the transceiver is used for long transmissions, the radiator and chassis will become hot.

## Safety Operation



### Forbid

- Do not use charger outdoors or in moist environments, use only in dry locations/conditions.
- Do not disassemble the charger, that may result in risk of electrical shock or fire.
- Do not operate the charger if it has been broken or damaged in any way.
- Do not place a portable radio in the area over an air bag or in the air bag deployment area. The radio may be propelled with great force and cause serious injury to occupants of the vehicle when the air bag inflates.

### To reduce risk

- Pull by the plug rather than the cord when disconnecting the charger.
- Unplug the charger from the AC outlet before attempting any maintenance or cleaning.
- Contact Retekeess for assistance regarding repairs and service.

EU Importer

Name: Germany Retevis Technology GmbH  
Address: Uetzenacker 29,38176 wendeburg