# RETEVIS

# USER'S MANUAL

## TRANSCEIVER

## RT27

- Scan function
- Busy Channel Lock Out

CE FC RoHS

Shenzhen Retevis Technology Co.,Ltd.
2F, Floor 2, Huafeng Zhongdi Industrial Park, Gushu Community Xixiang Street, Baoan District, Shenzhen, China
E-mail:hr@retevis.com
Facebook:Retevisradio

MADE IN CHINA

English

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## UNPACKING AND CHECKING EQUIPMENT

We recommend that you open the packing box before use and check carefully the total transceiver and the following supplied accessories. If any item missed or damaged during shipment, please contact the dealer or shipper in time.

**1. Supplied Accessories**

| Name | Quantity |
|---|---|
| Battery Door | 1 |
| Belt Clip | 1 |
| Battery | 1 |
| USB Charger | 1 |
| User's Manual | 1 |

## PREPARATION

**Notice:**

**Do not charge the battery for a long time!**

If battery is not fully charged within schedule time, stop charging and remove it. Otherwise, it may be damaged and even bring fire hazard.

**Do not throw the battery into micro-wave oven and high-pressure container!**

The battery may be overheated and smoke and explode. **Prevent the trash as well as liquid spilling battery from fire!**

Battery may explode if damaged. Do not use battery if you feel any leak from inside it. The electrolyte spilled from the battery is easy to catch fire, and it will cause battery damage and even bodily injury.

**Do not use unusual battery!**

If battery smells smelly, different colors, out of shape or any unusual phenomena, please remove the battery from charger, then stop use it.

**Charge the battery before use.**

Please charge the battery before discharging, please remove the battery from charger after it is full charged, or it will affect the battery life.

**Charge in a cool environment!**

To avoid electronic components damage, please remove the battery from charger after it is full charged.

**Avoid Fume**

**Antenna:**

- Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with skin, a minor burn can result.
- Replacement antennas must be identical to the original factory antenna.

**Protect your hearing:**

- Use the lowest volume necessary to do your job.
- Limit the amount of time you listen at high volume.
- Turn down the volume before adding headset or earphone.
- Limit the amount of time you use headset or earphone.

**Avoid Explosive Risk**

- a battery or accessory or when charging battery.
- Do not charge battery in any potentially explosive atmosphere, such as fueling areas, in a blasting area, in explosive atmospheres or areas where chemicals are stored.
- Turn off your radio while taking on fuel or while in any area with potentially explosive atmosphere.
- Do not transport or store flammable gases in the compartment of your vehicle.

Before operating 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 affected).

- Turn off your radio when in an aircraft. Any use of the transceiver must follow the instructions given by the airline crew.

**Avoid Seizures**

- Use caution with the earphone mode possible seizures or consciousness may occur in some individuals when exposed to certain flashing lights or light patterns. Note: Exposure to loud noises from any source for extended periods of time may affect your hearing.

**Avoid Interference**

- 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 affected).
- Consult a physician or the medical device manufacturer to determine if operation of your radio may interfere with the operation of your medical device.

**Avoid Blasting Area**

- Turn off your radio when in a blasting area or in areas posted "turn off two-way radio". Obey all signs and instructions.

**Avoid Fire**

- Do not use your radio if any part is broken, missing, melted or damaged.
- Do not put your radio in direct contact with heat sources such as radiators or heat registers.
- Do not dispose of your battery pack in fire.

**Avoid Damage**

- Do not modify your radio.
- Do not use your radio if the operational requirements described are not met.

**Operating Instructions:**

- Transmit no more than the rated duty factor of 50% of the time. To Transmit (Talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Limit transmissions to 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting in terms of duty factor (transmitting versus receiving).
- Use your radio only in the normal manner with the antenna pointed straight up when the recommended minimum lateral distance away from a properly installed antenna. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically approved for use with this radio. Use only with this radio, and the antenna gain does not exceed the specified gain by the manufacturer declared.

**Protect your radio from water:**

- Your radio is not waterproof. Do not operate it or charge the battery pack if it has been exposed to water. Splash directly onto the microphone.

**Electromagnetic Interference/Compatibility**

Nearly every electronic device is subject to some degree to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility.

**Avoid Choking Hazard**

Small Parts- Not for children under 3 years.

**Turn off your radio prior to the following conditions:**

- Turn off your radio before removing (installing)

## GETTING STARTED

(Pic1)

(Pic2)

bottom of transceiver, and pull the bottom part of battery away from the transceiver to remove the battery (Pic2)

**1. Install Remove Belt Clip**

If necessary, install the supplied screws into the belt clip at the back of battery pack for easy carry (Pic3).

To remove the belt clip, directly remove the two screws only.

**2. Install Hand Strap**

Install the hand strap at the middle circle of the (Pic4)

(Pic3)

(Pic4)

**Power/Volume Knob**

Rotate the Power/Volume knob clockwise to turn on the transceiver, keep rotating to adjust the volume. To turn it off, rotate the knob to the and anticlockwise.

**3. Install Antenna**

When installing, LED indicator turns red. LED indicator will flash red when it is charging.

**Channel Selection Knob**

Rotate Channel Selection Knob to select needed channel. Clockwise rotation will rise the channel number and

Counterclockwise rotation will decrease the channel number.

Voice Prompt: The prompt tone will be channel number or channel number outlines when you rotate channel knob.

The voice prompt can be set by English and Chinese, you can select the language by software.

**MONI Key**

Press it to monitor the selected channel.

**MIC/ SK Jack**

It is to connect the optional microphone-speaker.

**PTT Key/ Orange Side Key**

**1. Turn On/Turn Off**

Rotate the Power/Volume knob clockwise to turn on the transceiver.

Rotate the Power/Volume knob anticlockwise to turn on the transceiver.

**2. Adjust Volume**

Rotate the Power/Volume knob to adjust the volume. Clockwise rotation will rise the volume and anticlockwise rotation will decrease the volume.

More accurate adjustment to be selected via communication.

Note: You can press MONI key to monitor the background noise while adjusting volume.

**3. Channel Select**

Rotate Channel Selection Knob to select needed channel. Clockwise rotation will rise the channel number and anticlockwise rotation will decrease the channel number.

Voice Prompt: The prompt tone will be channel number or channel number outlines when you rotate channel knob.

The voice prompt can be set by English and Chinese, you can select the language by software.

**4. Adjust Squelch Level**

Squelch function is used to let speaker quiet when no any signal is received. Rotate the knob to the and to hear background noise can be heard.

Rotate the knob to the and to where where to turn on or off background noise can be heard. Rotate the knob to the and to where signal can be heard. But if the selected squelch level is too high, weak signal will appear and be ignored (signal noise -3Hz programmable)

**5. Emergency**

Emergency is a different settings of monitor function, press [MON] key to monitor loudspeaker. Make sure no any signal is receiving in the selected channel.

2. Press [PTT] key, and speak to microphone.

3. Release [PTT] key to receive, and wait about 3~4 cm, and speak in your usual tone, so that the receiver can get the best tone quality.

4. Power [PTT] key, LED indicator displays red.

5. Release [PTT] key and start to receive.

**6. Receive**

When the selected channel is being called, LED indicator displays green, you can receive the call.

Rotate the Power/Volume knob to adjust the high signal to work as set. then start to receive the call.

Maybe your local dealer has set CTCSS/DCS signaling on your transceiver. When a CTCSS/DCS signaling has been selected, only transceiver with same signaling can be received. Other transmitting can not be received.

**VOX FUNCTION**

Press and hold the [MON] key to boot, and VOX setting function will be open, then press [MON] key again to select VOX level, there are 10 levels to be selected, 0 is default.

Press and hold the [Side] key to boot, you can enter into the VOX delay setting, there are 10 levels to be selected 1-10 is 1-10 delay levels, finally press [PTT] key to confirm.

**SCAN FUNCTION**

It will help you to find the start each scan. When receiving signal, it will stop at present channel, and it will auto scan again after signal disappears in 5s. Press [PTT] key, if scan is working, then transmitting and according to current channel to transmit.

**CTCSS and DCS**

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This function is only for some amateur radio users. If you want to use this function, please consult your local dealer.

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**Listen Radio**

Use governments maintenance to radio on classification, he radios on classification only permits to use the radios that meet the regulations on the service for the radio boats (VHF) on the inland waterways, ISED, OFCOM, ANER, BFTE, Bundesnetzagentur ...), devices you can use the radios on the inland waterways, and you can use the radios on sea radios, you'd better contact for service for genius the radios of government local.

Please do not use radio on defiant the pays on city devot this distribute set sustain it by rulemaking governmentalis or pool this interdict.

**Modification or ajustement non autorisés**

Les changements ou modifications non expressément approuvés par la partie responsable de la conformité peuvent annuler le droit de l'utilisateur accorder par les services de gestion de la radio du gouvernement local pour exploiter cette radio et ne devrait pas être en mesure de fonctionner. Seuls les périphériques (câbles d'interface) fournis avec cet appareil ou conformes à la liste d'options d'accessoires approuvée par Retevis doivent être utilisés. Il est nécessaire d'utiliser de bons périphériques et assemblés de manière correcte. Le non-respect de ces directives peut entraîner des résultats indésirables et annuler la garantie de votre appareil.

Use of non-approved or improperly assembled accessories may cause harm. Suche de Radios in der Nähe von elektronischen Geräten kann Störungen verursachen, wenn diese nicht ausreichend abgeschirmt sind. Sollten Sie Störungen feststellen, wenden Sie sich bitte an den Hersteller des betreffenden Gerätes.

## FM Transceiver

## PREPARATION

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**Do not use unusual battery!**

If battery smells smelly, different colors, out of shape or any unusual phenomena, please remove the battery from charger, then stop use it.

**Charge the battery before use.**

Please charge the battery before discharging , please remove the battery from charger after it is full charged , or it will affect the battery life.

**Charge in a cool environment!**

To avoid electronic components damage, please remove the battery from charger after it is full charged.

**Avoid Fume**

**Avoid Explosive Risk**

**Avoid Seizures**

**Avoid Interference**

**Avoid Blasting Area**

**Avoid Fire**

**Avoid Damage**

**Avoid Choking Hazard**

**Turn off your radio prior to the following conditions:**

**Antenna:**

**Protect your hearing:**

**Electromagnetic Interference/Compatibility**

**Operating Instructions:**

**Protect your radio from water:**

## GETTING STARTED

**Power/Volume Knob**

**1. Install/Remove Battery Pack**

**2. Install Hand Strap**

**3. Install Belt Clip**

**Channel Selection Knob**

**PTT/Push-To-Talk Switch**

**Side Key**

**MONI Key**

**MIC/SPK Jack**

## BASIC OPERATION

**Power On/Off**

**Volume Adjustment**

**Channel Selection**

**Squelch Level Adjustment**

**Transmitting**

**Receiving**

**Scan**

**Emergency**

## FUNCTION

**Setting Menu**

**Menu Operation**

**Menu Table**

## SCAN FUNCTION

**Scan Mode**

**Priority Scan**

**Carrier Scan**

**Time Scan**

## CTCSS/DCS

**CTCSS Encoding**

**CTCSS Decoding**

**DCS Encoding**

**DCS Decoding**

## AUXILIARY FUNCTIONS

**1. Busy Channel Lockout**

**2. Time-out Timer (TOT)**

**3. Voice Prompt**

**4. Alarm**

**5. Keypad Lock**

**6. Battery Save**

**7. Backlight**

**8. Roger Beep**

**9. Scan Add/Delete**

**10. Key Tone**

**11. Channel Display Type**

**12. Power-on Display**

**13. Power-on Password**

**14. Reset**

**15. Frequency Reverse**

**16. Compander**

**17. Scrambler**

**18. Alarm Type**

**19. Alarm Content**

**20. Vibration**

**21. Two-tone Decode**

**22. Two-tone Encode**

**23. Two-tone Spontaneous Transmission**

**24. Two-tone Response**

**25. Two-tone Standard**

**26. Two-tone Decode Time**

**27. Two-tone Decode Group**

**28. Two-tone Decode Tone**

**29. Two-tone Decode Response**

**30. Two-tone Decode Reset**

**31. Two-tone Decode Display**

**32. Two-tone Decode Ringing Time**

**33. Two-tone Decode Ringing Type**

**34. Two-tone Decode Volume**

**35. Two-tone Encode ID**

**36. Two-tone Encode Delay Time**

**37. Two-tone Encode Hold Time**

**38. Two-tone Encode Type**

**39. Two-tone Encode Decode Reset Time**

**40. Two-tone Encode Decode Reset Type**

**41. Two-tone Encode Decode Reset Tone**

**42. Two-tone Encode Decode Reset Response**

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**291. Two-tone Encode Decode Reset Tone**

**292. Two-tone Encode Decode Reset Response**

**293. Two-tone Encode Decode Reset Display**

**294. Two-tone Encode Decode Reset Ringing Time**

**295. Two-tone Encode Decode Reset Ringing Type**

**296. Two-tone Encode Decode Reset Volume**

**297. Two-tone Encode Decode Reset ID**

**298. Two-tone Encode Decode Reset Delay Time**

**299. Two-tone Encode Decode Reset Hold Time**

**300. Two-tone Encode Decode Reset Type**

**301. Two-tone Encode Decode Reset Tone**

**302. Two-tone Encode Decode Reset Response**

**303. Two-tone Encode Decode Reset Display**

**304. Two-tone Encode Decode Reset Ringing Time**

**305. Two-tone Encode Decode Reset Ringing Type**

**306. Two-tone Encode Decode Reset Volume**

**307. Two-tone Encode Decode Reset ID**

**308. Two-tone Encode Decode Reset Delay Time**

**309. Two-tone Encode Decode Reset Hold Time**

**310. Two-tone Encode Decode Reset Type**

**311. Two-tone Encode Decode Reset Tone**

**312. Two-tone Encode Decode Reset Response**

**313. Two-tone Encode Decode Reset Display**

**314. Two-tone Encode Decode Reset Ringing Time**

**315. Two-tone Encode Decode Reset Ringing Type**

**316. Two-tone Encode Decode Reset Volume**

**317. Two-tone Encode Decode Reset ID**

**318. Two-tone Encode Decode Reset Delay Time**

**319. Two-tone Encode Decode Reset Hold Time**

**320. Two-tone Encode Decode Reset Type**

**321. Two-tone Encode Decode Reset Tone**

**322. Two-tone Encode Decode Reset Response**

**323. Two-tone Encode Decode Reset Display**

**324. Two-tone Encode Decode Reset Ringing Time**

**325. Two-tone Encode Decode Reset Ringing Type**

**326. Two-tone Encode Decode Reset Volume**

**327. Two-tone Encode Decode Reset ID**

**328. Two-tone Encode Decode Reset Delay Time**

**329. Two-tone Encode Decode Reset Hold Time**

**330. Two-tone Encode Decode Reset Type**

**331. Two-tone Encode Decode Reset Tone**

**332. Two-tone Encode Decode Reset Response**

**333. Two-tone Encode Decode Reset Display**

**334. Two-tone Encode Decode Reset Ringing Time**

**335. Two-tone Encode Decode Reset Ringing Type**

**336. Two-tone Encode Decode Reset Volume**

**337. Two-tone Encode Decode Reset ID**

**338. Two-tone Encode Decode Reset Delay Time**

**339. Two-tone Encode Decode Reset Hold Time**

**340. Two-tone Encode Decode Reset Type**

**341. Two-tone Encode Decode Reset Tone**

**342. Two-tone Encode Decode Reset Response**

**343. Two-tone Encode Decode Reset Display**

**344. Two-tone Encode Decode Reset Ringing Time**

**345. Two-tone Encode Decode Reset Ringing Type**

**346. Two-tone Encode Decode Reset Volume**

**347. Two-tone Encode Decode Reset ID**

**348. Two-tone Encode Decode Reset Delay Time**

**349. Two-tone Encode Decode Reset Hold Time**

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**352. Two-tone Encode Decode Reset Response**

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**363. Two-tone Encode Decode Reset Display**

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**366. Two-tone Encode Decode Reset Volume**

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**368. Two-tone Encode Decode Reset Delay Time**

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