

# RETEVIS

## User's Manual

### RT36 Walkie Talkie



**CE RoHS**



**Shenzhen Retevis Technology Co.,Ltd**

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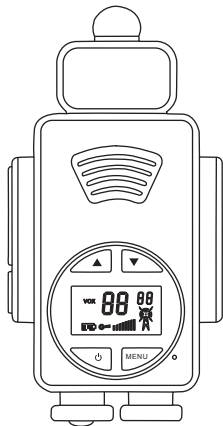
Web: [www.retevis.com](http://www.retevis.com)

E-mail: [kam@retevis.com](mailto:kam@retevis.com)

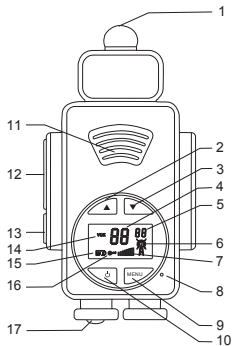
Facebook: [facebook.com/retevis](https://facebook.com/retevis)



MADE IN CHINA



**EN**



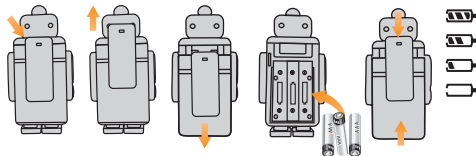
- 1 - Antenna
- 2 - Volume Up Button
- 3 - Volume Down Button
- 4 - Channel Display
- 5 - CTCSS/DCS Number
- 6 - TX/RX Icon
- 7 - Volume
- 8 - Microphone
- 9 - MENU Button
- 10 - Power Button
- 11 - Speaker
- 12 - PTT Key
- 13 - Lamp Key
- 14 - Vox
- 15 - Power Display
- 16 - Lock
- 17 - Lamp

### In structions for use

1. Do not use the device if you find the antenna is damaged .Or it will have risk of burning .
2. Do not use the device in a flammable or explosive environment.
3. Switch off the device if you are on the plane or in the hospital.
4. Never use the device in close proximity to a radio to avoid interference.
5. Remove the batteries if the device is not in use for an extended period of time. Never mix used and new batteries.
6. Do not modify the device in any way. If the device is damaged, Please make it operated by specialists.
7. The device cannot be used to contact the emergency services.

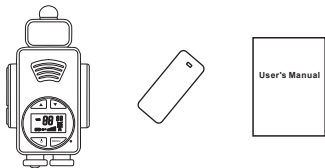
### Battery Precautions

1. Batteries should be changed by an adults.
2. Do not charge the radio with Non-rechargeable batteries, and rechargeable batteries should be charged under adult supervision.
3. Do not mix alkaline, standard(carbon zinc),or rechargeable(nickel cadmium) batteries. Do not mix used and new batteries together. Only batteries of the recommended type or of a similar type should be used.
4. Batteries must be inserted according to the correct polarity. Remove batteries from radio when storing for an extended period of time or if batteries are exhausted.
5. The supply terminals must not be short-circuited.



### Unpacking and checking equipment

Welcome to use two-way radio. Carefully unpack the radio. We recommend you check the listed in the following table before discarding the package. If any item is missing, please contact us immediately.




- 2 x two-way radio
- 2 x Belt clip
- 1 x User's Manual

## 1. Hot spot

1. Civilian handheld license-free two-way radio.
2. Automatic squelch.
3. Power saving function.
4. LCD display.
5. Low battery alarm
6. USB charging (And the same as the phone charging interface, Micro-USB).

## 2. Functional operation

### 2.1 Turning the device on/off

To turn the devices on or off, press the on/off  button for 3 seconds, there will be a BEEP sound to confirm.



### 2.2 LED flashlight

Press the  key, the LED flashlight light, and then press the  key to close

### 2.3. Keyboard lock

Long press  key to lock the keyboard to avoidoperating errors.







### 2.4 Adjusting the volume

To increase the volume, press the Up adjustor button  and press the Down  button to decrease volume.


Note: The volume level (7) is displayed on the screen.

### 2.5 Function option switch

After pressing the power button to enter the menu settings:

1. Changing the channel: press the  button once, then change the channel with  and . Press PTT to confirm .The two devices must use the same channel.
2. VOX: Press the  button twice, for VOX (voice) to select, close and 5 level options.
3. Press the  button three times, then choose one of the ten call tones and press PTT to confirm.
4. Press the  button three times, return to standby.

### 2.6 Vox function

Press the  button twice, for VOX (voice) to select, close and 5 level options.

5 = High sensitivity under low background noise.

4 = Medium High Sensitivity Under Low Background Noise Use.

3 = Sensitivity for most applications


2 = Medium low sensitivity for high background noise.

1 = low sensitivity for high background noise.

Note: 1. There will be a slight delay between starting speech and radio transmission.





2. PTT auto-off when the voice-activated launch switch is turned on does not need to be pressed by PTT.
3. After the end of the speech two seconds after the launch automatically.

### 2.7 CALL tone selection

Press the  button three times, then choose one of the ten call tones and press PTT to confirm. A total of 10 kinds of CALL music, press the power button to launch.

## 2.8 Battery Charge Level

The battery charge level is indicated by the number of square present inside the battery icon on the LCD screen.

Battery Full  Battery 2/3 charged   
Battery 1/3 charged  Battery empty 

When the battery power is low, the battery icon will flash and there will be a beep indicating that the batteries need to be replaced or recharged.



## 2.9 Memory function

There is a memory function (including the on / off status) when the machine is turned off or off, and there is no need to reset the channel.

## 2.10 Restore factory settings

In the shutdown state, press the  key and the **MENU** button at the same time, all settings are restored to factory settings.

## 2.11 How to communicate with each other

To make radios communicate with each other, the devices should be set as same frequencies and DCS. Just press the PTT button, then the signal will be transmitted. And notice to keep a 5cm distance between your mouth and the radio. After finishing the sending, please release the button to make sure the other one can talk on the frequency. Because the radio can not transmitting while receiving, so if you keep pressing the PTT, you will not hear anything from the other side. It will show  then you know it is sending signals and  when receiving.

## 3 Channel and frequency (MHz).DCS .

### America

Channel	Frequency	DCS	Number
1	462.5625	N43	44
2	462.5875	N65	48
3	462.6125	N116	55
4	462.6375	N205	68
5	462.6625	N261	75
6	462.6875	N265	77
7	462.7125	N271	78
8	467.5625	N306	79
9	467.5875	N311	80
10	467.6125	N331	82
11	467.6375	N365	87
12	467.6625	N431	93
13	467.6875	N466	98
14	467.7125	N503	99

### Europe

Channel	Frequency	DCS	Number
1	446.00625	N114	53
2	446.01875	N131	57
3	446.03125	N132	58
4	446.04375	N165	65
5	446.05625	N226	70
6	446.06875	N306	79
7	446.08125	N371	88
8	446.09375	N503	99

# WARNING

## RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE FOR PORTABLE TWO-WAY RADIOS



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.

This two-way radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. RF energy, which when used improperly, can cause biological damage.

All Retevis two-way radios are designed, manufactured, and tested to ensure they meet government-established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of two-way radios. These instructions are important because they inform users about RF energy exposure and provide simple procedures on how to control it.

Please refer to the following websites for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure limits:

<http://www.who.int/en/>

### Local Government Regulations

When two-way 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 Retevis two-way radio has a RF Exposure Product Label. Also, your Retevis user manual, or separate safety booklet includes information and operating instructions required to control your RF exposure and to satisfy compliance requirements.

### Radio License

Governments keep the radios in classification, business two-way

radios operate on radio frequencies that are regulated by the local radio management departments (FCC, ISED, OFCOM, ANFR, BFTK, Bundesnetzagentur...). To transmit on these frequencies, you are required to have a license issued by them. The detailed classification and the use of your two radios, please contact the local government radio management departments.

Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

#### **Unauthorized modification and adjustment**

Changes or modifications not expressly approved by the party responsible for compliance may void the user's authority granted by the local government radio management departments to operate this radio and should not be made. To comply with the corresponding requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services.

Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the local government radio management departments equipment authorization for this radio could violate the rules.

#### **FCC Requirements:**

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference. (Licensed radios are applicable);

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (Other devices are applicable)

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a

commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### **CE Requirements:**

- (Simple EU declaration of conformity) Shenzhen Retevis Technology Co., Ltd. declares that the radio equipment type is in compliance with the essential requirements and other relevant provisions of 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.retevis.com](http://www.retevis.com).

#### **• Restriction Information**

This product can be used in EU countries and regions, including: Belgium (BE), Bulgaria (BG), Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain (ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE) and United Kingdom (UK).

For the warning information of the frequency restriction, please refer to the package or manual section.

#### **• Disposal**

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.



#### **IC Requirements:**

Licence-exempt radio apparatus

This device contains licence-exempt transmitter(s)/receiver(s) that

comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### **RF Exposure Information**

- DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio, and the antenna gain shall not exceed the specified gain by the manufacturer declared.
- DO NOT transmit for more than 50% of total radio use time, more than 50% of the time can cause RF exposure compliance requirements to be exceeded.
- During transmissions, your radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so.
- DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.
- Portable Device, this transmitter may operate with the antenna(s) documented in this filing in Push-to-Talk and body-worn configurations. RF exposure compliance is limited to the specific belt-clip and accessory configurations as documented in this filing and the separation distance between user and the device or its antenna shall be at least 2.5 cm.
- Mobile Device, during operation, the separation distance between

user and the antenna subjects to actual regulations, this separation distance will ensure that there is sufficient distance from a properly installed externally-mounted antenna to satisfy the RF exposure requirements.

- Occupational/Controlled Radio, this radio is designed for and classified as "Occupational/Controlled Use Only", meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards; NOT intended for use in a General population/uncontrolled environment.
- General population/uncontrolled Radio, this radio is designed for and classified as "General population/uncontrolled Use".

### **RF Exposure Compliance and Control Guidelines and Operating Instructions**

To control your exposure and ensure compliance with the occupational/controlled environment exposure limits, always adhere to the following procedures.

#### **Guidelines:**

- User awareness instructions should accompany the device when transferred to other users.
- Do not use this device if the operational requirements described herein 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 (listen), release the PTT button. Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting in terms of measuring for standards compliance.
- Transmit only when people outside the vehicle are at least the recommended minimum lateral distance away from a properly installed according to installation instructions, externally mounted antenna.
- When operating in front of the face, worn on the body, always place the radio in a Retevis approved clip, holder, holster, case,

or body harness for this product. Using approved body-worn accessories is important because the use of Non-Retevis approved accessories may result in exposure levels, which exceed the IEEE/ICNIRP RF exposure limits.

#### Hand-held Mode

- Hold the radio in a vertical position with the microphone (and other parts of the radio including the antenna) at least 2.5 cm (one inch) away from the nose or lips. The antenna should be kept away from the eyes. Keeping the radio at a proper distance is important as RF exposure decreases with increasing distance from the antenna.



#### Phone Mode

- When placing or receiving a phone call, hold your radio product as you would a wireless telephone. Speak directly into the microphone.

#### Electromagnetic Interference/Compatibility

NOTE: Nearly every electronic device is susceptible 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 power in the following conditions:



**WARNING**

- 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.

#### Protect your hearing:



**WARNING**

- 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.
- Limit the amount of time you use headsets or earpieces at high volume.
- When using the radio without a headset or earpiece, do not place the radio's speaker directly against your ear
- Use careful with the earphone maybe possible excessive sound pressure from earphones and headphones can cause hearing loss



Note: Exposure to loud noises from any source for extended periods of time may temporarily or permanently affect your hearing. The louder the radio's volume, the less time is required before your hearing could be affected. Hearing damage from loud noise is sometimes undetectable at first and can have a cumulative effect.

#### Avoid Burns

##### Antennas

- Do not use any portable radio that has a damaged





**WARNING**

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**

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

### **Safety Operation**



**WARNING**

#### **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 Retevis for assistance regarding repairs and service.
- The adapter shall be installed near the equipment and shall be easily accessible

### **Approved Accessories**



**WARNING**

- This radio meets the RF exposure guidelines when used with the Retevis accessories supplied or designated for the product. Use of other accessories may not ensure compliance with the RF exposure guidelines and may violate regulations.
- For a list of Retevis-approved accessories for your radio model, visit the following website:  
<http://www.Retevis.com>

# Guarantee

Model Number: .....

Serial Number: .....

Purchasing Date: .....

Dealer: ..... Telephone: .....

User's Name: ..... Telephone: .....

Country: .....

Address: .....

Post Code: ..... Email: .....

## **Remarks:**

- 1.This guarantee card should be kept by the user, no replacement if lost.
- 2.Most new products carry a two-year manufacturer's warranty from the date of purchase. Further details, pls read <http://www.retevis.com/after-sale/>
- 3.The user can get warranty and after-sales service as below:
  - Contact the seller where you buy.
  - Products Repaired by Our Local Repair Center.
- 4.For warranty service, you will need to provide a receipt proof of purchase from the actual seller for verification.

## **Exclusions from Warranty Coverage:**

- 1.To any product damaged by accident.
- 2.In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs.
- 3.If the serial number has been altered, defaced, or removed.