

Operating Instructions

0.5W Handheld walkie talkie Model NO: RT38



US



INSTALLATION

Removing the belt clip Pull the belt clip latch away from the unit. See picture as right.

Installing the Batteries

FOR USE OF RECHARGEABLE BATTERIES:

If your walkie talkie comes with a rechargeable battery , USB cable, dual USB adaptor and dual USB car charger. The fully charging time is about 12 hours, during charging , there is red light on the LCD screen meanwhile battery icon will flash, when it is fully charged, the red light will be off. The USB cable, adaptor and car charger will only charge the single ni-mAh rechargeable battery or ni-mAh rechargeable battery pack which provided and not other types of rechargeable batteries. After placing batteries into correct positions, replace the battery cover. Remarks: Don't charge the alkaline battery.



FOR USE OF NON RECHARGEABLE BATTERIES:

1. Slide down the battery compartment cover.
2. Insert 3 x AAA batteries (not included).
3. Position the batteries according to the polarity marking on the battery compartment. After placing batteries into correct positions, replace the battery cover.

Low Battery Meter Indicator

The radio can detect the low battery level when the battery voltage goes low. The battery icon will display the low battery status. When battery voltage is low, the empty battery symbol will appear and continue to blink. The battery symbol will continuously blink until it totally drains the battery voltage where then you will have to replace the batteries.

Transmitting Range

The talk range will depend on your surroundings and environment. It will be affected by obstructions such as hills or buildings.

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Don't try to use two radio units which are less than 1.5m (5 feet) apart. Otherwise, you may experience interference. Talk range depends on the terrain. It will be affected by concrete structures, heavy foliage and by operating radios indoors or in vehicles.



- 88** CTCSS Code. Changes from 1 to 38 as selected by the user.
- ▬▬▬** Displays the Battery change level. When the bars are reduced ,the battery needs recharging.
- TX** Displayed when transmitting a signal.
- RX** Displayed when receiving a signal.
- DCM** Displayed when the Dual Watch function is turned ON.
- VOX** Displayed when the vox feature is enabled.

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Operating the unit

Turning unit on/off:

- 1- Switching on
Press and hold the Menu/PWR until you hear a beep sound.
- 2- Switching off
Press and hold the Menu/PWR until you hear a beep sound.

Adjusting the Volume:

You have 8 preset volume levels. To raise the volume press the Up / Scan button and to decrease the volume, press the Down /MONI button , then press PTT button or Menu/PWR button to confirm.

Key lock:

Press & hold Lock button for 6 seconds, the unit will be locked and lock icon will be displayed in the LCD screen. When the unit is locked ,only Torch button, Menu/PWR button, PTT button and Lock button can be available. Press & hold Lock button for 3 seconds, it will be unlocked.

Torch:

Press and hold the Torch button, it will be on. Release the button, it will be off. When the unit is turn off, the torch still can be on/off by Torch button.

Auto scan.

Press & hold the Up / Scan button for 2 seconds to activate auto scan. Press & hold the Up / Scan button for 2 seconds to deactivate auto scan Or Press Menu/PWR button to deactivate auto scan.

Monitor (Zero squelch)

Press & hold the Down/Moni button for 2 seconds to activate monitor. Press & hold the Down/Moni button for 2 seconds to deactivate monitor.

Changing Channels

You have channels with the legal frequency at your disposal. To communicate with another device, you must set the both on the same channel. To change channels, once you have turned your unit on, press the Menu/PWR once and use the Up/Down buttons to scroll through to your desired channel. To set your desired channel, press the PTT button to confirm changes.

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Your unit is simplex "one way at a time". While you are speaking, you can not receive a Transmission. Your unit is an open-license band. Always identify yourself when transmitting on the same channel. IMPORTANT: Before transmitting on a channel listen to ensure it is not already in use.

CTCSS/DCS

Press the Menu/PWR button twice and use the Up/ Down to introduce CTCSS/DCS Continuous Tone-Coded Squelch System or CTCSS is a circuit that is used to reduce the annoyance of listening to other users on a shared two-way radio communications channel. It basically allows a private CH on a busy stream.

CTCSS = Coded tone controlled squelching system. This allows you to talk on a private sub channel on an active channel.

DCS is a digital extension of CTCSS.

DCS=DCS is a digital extension of CTCSS. It provides extra, digitally coded, squelch codes that follow after the 38 CTCSS codes. CTCSS 1 to 38, followed by DCS 1- 83.

VOX

Voice operated transmitter, it allows you to transmit with your voice without pressing the button.

Your communicator is equipped with an adjustable Voice Operated Transmitter(VOX) that can be used for automatic voice transmission. In this convenient mode, transmission is automatically initiated by speaking into the microphone. There is no need to push the button.

By press Menu/PWR button 3 times, screen will display VOX character, character OFF keep flashing. Press Up or Down button to select voice level (from 1 to 3 level or OFF), by pressing PTT button to confirm setting. VOX default setting is off.

CA

Call allows you to adjust different tones for calling the operator from the same channel.

Press Menu/PWR button 4 times, screen will display CA character, digital 01 keep flashing, by pressing UP or Down button to select call tone from 01~10, then press PTT button to confirm call tone setting. Default setting for call tone is 01.

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There are 10 mode call tones in this unit. You and other party can use designed call tone to communicate separately, secretly to avoid any disturb. To activate this feature, when the unit in normal mode, press twice quickly and release the PTT button to send a tone to other users on the same channel.

TOT

Time out timer means the unit will automatically stop transmit after 30sec or 60 sec continuously transmit. Press Menu button 5 times, screen will display 60 TO, and then press Up or Down button can choose 60 or 30 seconds or OFF. Default setting is 60 seconds, and press the PTT button to confirm changes.

Roger Beep

Roger beep means a tone added to the end of broadcast. It indicates that the user/operator has concluded speaking. This is a tone which is automatically transmitted whenever the PTT button is released. This alerts the receiving party that you have ended the transmission, and you are now in receive mode. Press Menu button 6 times, screen will display ON RO, then press Up or down button to choose RO OFF or ON. Press the PTT button to confirm changes.

Key tone

Symbol will be on the display when Key tone is opened. Press Menu button 7 times, screen will display Bell ON, and press Up /Scan button to choose ON or Down/MONI button to choose OFF. Default setting is ON, press the PTT button to confirm changes.

DCM

Dual channel monitoring you can monitor between two channels eg: 1 to 8 or 9 to 22. Press Menu button 8 times, screen will display DCM OF, and press Down or UP button to choose DCM OFF or ON. When choose DCM is on, press Menu/PWR button one time, then scroll Up/Down button to choose channel. The channel can not be the same as main channel. Press the PTT button to confirm changes.

Transmitting (sending speech)

The unit is continuously in the Receive mode when the unit is turned ON and not transmitting. When a signal is received on the current channel, "RX" icon will be

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displayed on the LCD screen.

a. Press and hold the PTT (Push to Talk) button to transmit your voice. The transmit signal icon "TX" will display on the LCD screen.

b. Hold the unit in a vertical position with the Mic (Microphone) 5cm away from the mouth. While holding the PTT button, speak into the microphone in a normal tone of voice.

c. Release the PTT button when you have finished transmitting. For others to receive your transmission, they must be on the same channel as you.

Reset the unit

Take away the battery from walkie talkie battery compartment, then hold the Menu/PWR button meanwhile put back the battery to walkie talkie battery compartment in right polarity. The unit will turn on and display CH 100.

Channel and Frequency (MHz)

USA(22ch)

Ch.	Frequency	Ch.	Frequency	Ch.	Frequency	Ch.	Frequency
1	462.5625	7	462.7125	13	467.6875	19	462.6500
2	462.5875	8	467.5625	14	467.7125	20	462.6750
3	462.6125	9	467.5875	15	462.5500	21	462.7000
4	462.6375	10	467.6125	16	462.5750	22	462.7250
5	462.6625	11	467.6375	17	462.6000		
6	462.6875	12	467.6625	18	462.6250		

Caution:

Battery

- 1: If you use Alkaline battery, please use AAA size battery, but don't attempt to charge alkaline batteries.
- 2: Please don't mix old and new batteries, it will affect the battery lifetime.
- 3: Do not mix alkaline, standard (carbon-zinc), or rechargeable (Ni-Cd, Ni-MH, etc.) batteries.
- 4: Alkaline battery have expiry time. Please make sure the battery are valid.

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TROUBLE SHOOTING GUIDE

PROBLEM	GUIDE
No power or radio switches off after short time	1: Check charger and correct battery installation. 2: Clean battery contacts (Important!) . 3: Replace battery by fully charged or a new battery . 4: Battery capacity poor: battery defective or at end of lifetime replace battery.
I cannot communicate with other group members	1: Verify if the channel frequency and the CTCSS are the same in the whole group. If you use factory default programming, this is automatically OK if all members of your group use the same channel number. 2: The other group members are not with the radio coverage.
You can hear the voice from other users, but they cannot hear you	1: Please change your setting to exactly the same number as the partners are using.
Others hear my voice with interruptions only	1: Too weak signal - too far away. 2: External mic defective? Please let service technology check.
I hear too many stations from outside my group	1: Another group is using the same channel number - change channel.

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

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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

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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/CNIRP 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



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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.

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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 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 (inflammable 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:



- 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

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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.

•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

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- 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 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



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

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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

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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



• 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>

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