RETG/15



RB45
USER'S MANUAL

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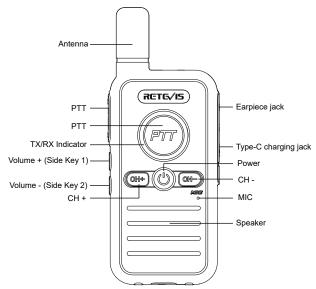
For downloading further resources:

Brochures, Software/Firmware, Manual etc, Pls contact your direct reseller first OR go to website retevis.com and check "support" in the each product link to download it.

Function Instructions:

- 1.Working Frequency Range FRS
- 2.22 memory channels
- 3. English voice broadcast
- 4.50 CTCSS, 210 DCS
- 5.TOT
- 6.Battery save function
- 7.VOX function
- 8.Low battery alert
- 9.Scan function
- 10.Emergency alarm
- 11.Channel Lock
- 12.Scan
- 13 Monitor

Key Introductions



PTT: transmitting

CH + : shortly press is channel +. Long press the key for 3s to lock the channel and the radio makes a toot sound. After locking, press CH + and CH- are ineffective. Long press the key for 3s again and the radio makes a toot to unlock.

Power Key Long press the key for 3s to turn on the radio and the radio broadcasts power on and the current channel number. Press the key again to turn off the radio and the radio has an OFF prompt.

Volume + (Side Key 1): shortly press the key to increase the volume.

Volume - (Side Key 2): shortly press the key to decrease the volume.

Function Operations

Definition of the Side Kevs

Side key 1 and side key 2 have two functions: long press and short press.

Side key 1: shortly press: Volume +, fixed mode (default).

Side key 2: shortly press: Volume -, fixed mode (default).

Long press: the following functions can be defined through the programming software: OFF, Channel Broadcast, Scan, Emergency Alarm, Monitor and VOX.

Monitor: if someone is talking on your chosen channel, if there is no signal, the radio will make a rustling sound. OFF: there are no functions when you long press the side keys.

Channel Broadcast: long press the side key, the voice broadcasts the current channel number of the radio.

Scan: long press the side key to turn on the scan mode when an ON sound is heard. Scan mode will check the scanned channel activities which defines from 1 to 22 channels (Programming software can define whether the channel is scannable or not). When the scanned channel has a signal, the radio will automatically stop on that channel to communicate. To stop scanning, long press the side key, when an OFF sound is heard, that is to exit scan mode

Emergency Alarm: when the current channel has a transmitting frequency, long press the side key to turn on emergency alarm and the radio makes a alarm sound. To exit emergency alarm, press the PTT key.

VOX: when the side key 1 or 2 is set as VOX through the programming software, long press the side key 1 or 2 to turn on or off the function. Note: the VOX level must be set through the programming software, such as the level is set as 3, the VOX function is effective when long pressing the side key 1 or 2.

Side key 1: long press: VOX (default)

Side key 2: long press: Emergency Alarm (default)

Squelch Level

The squelch level is a stimulative reference level and is used to set internal squelch threshold in the CPU of the radio. You can preset the squelch level. In the user mode, the squelch level can be adjusted. Range: 0 (ON) - 9 (Deep) (Step is 1). Default: 3

Battery Save

Battery save: ON: if no operations for 10s, the radio automatically enters the battery save status.

OFF: the radio does not save power.

vox

The VOX function of the radio is turned on through the programming software. The signal can be transmitted through the head-mounted earpiece.

- a. VOX function: the VOX is effective only when the VOX function is turned on.
- b. VOX Gain Level: when the voice level is higher than the set VOX gain level, the VOX automatically transmits. Gain levels are adjustable: 1-9 levels. Default: 5.

Note: the VOX gain level must be set through the VOX level in the programming software.

Battery Voltage Detection

Low battery alert: when the voltage is lower than 3.3V, the radio prompts "Please charge your radio" every 20s.

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TOT time can be set through the programming software: 30-180s.

CTCSS/DCS

The CTCSS/DCS signaling on the radio channel can be set through the programming software. When the channel is set to CTCSS/DCS signaling, the squelch is turned on only when the radio receives the same CTCSS or DCS signal. If uses different CTCSS/DCS to call on the same channel, the squelch is turned off and the radio flashes green of the indicator.

FRS

CH Number	Frequency	Sub Audio	
1	462.5625	67.0	
2	462.5875	118.8	
3	462.6125	127.3	
4	462.6375	131.8	
5	462.6625	136.5	
6	462.6875	141.3	
7	462.7125	146.2	
8	467.5625	D243N	
9	467.5875	D032N	
10	467.6125	D047N	
11	467.6375	D051N	
12	467.6625	D053N	
13	467.6875	D065N	
14	467.7125	D116N	
15	462.5500	123.0	
16	462.5750	D7431	
17	462.6000	D3321	
18	462.6250	127.3	
19	462.6500	D2431	
20	462.6750	D606N	
21	462.7000	D7311	
22	462.7250	136.5	

Type-C Charging

Open the earpiece jack to insert the Type-C charging cable to recharge the radio. When charging, the blue of the indicator lights up. When fully charged, the green of the indicator lights up.

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



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.

•User instructions should accompany the device when transferred to other users.

•Do not use this device if the operational requirements described herein are not met.

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 of 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/

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(only applicable to licensed radio)

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.

(Only Applicable to GMRS radio station):

A valid individual license is required to operate a GMRS station. To obtain an individual license, an applicant must be eligible and follow the applicable rules and procedures established by FCC. The applicant must pay the required application and regulatory fees. Each individual license in the GMRS will normally have a term of ten

years from the date of grant or renewal, and may be renewed pursuant to the procedures of FCC. To obtain a GMRS operator license, you need FCC Form 605 & 159, we suggest visiting the FCC website at https://www.fcc.gov/wireless/support/fcc-form-605, which includes necessary instructions. More questions about the license application, please contact the FCC at 1-888-225-5322 or go to the FCC's website: http://www.fcc.gov. According to FCC rules, any individual who holds an individual license may allow his or her immediate family members to operate his or her GMRS station or stations. Immediate family members are the licensee's spouse, children, grandchildren, stepchildren, parents, grandparents, stepparents, brothers, sisters, aunts, uncles, nieces, nephews, and in-laws.

•(Only applicable to industrial environment)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.

•(Only applicable to home)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.

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.

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 Compliance and Control Guidelines and Operating Instructions

•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".

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

To 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.

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 necessary information or less, is important because the radio generates measurable RF energy exposure only when transmitting in terms of measuring for standards compliance.

•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 head 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. 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.

Hand-held Mode(if applicable)

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(if applicable)

•When placing or receiving a phone call, hold your radio product as you would a wireless telephone. Speak directly into the microphone. Do not use the equipment when you are driving

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:

- •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
- 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
- **•BATTERY WARNING: KEEP OUT OF REACH OF CHILDREN**
- Store spare batteries securely
- •If the battery compartment (if applicable) does not close securely, stop using the product and keep it away from children
- •If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention
- Dispose of used batteries immediately and safely

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.
- WARNING •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



•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:		
Country:		
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.
- 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.



CE F© RoHS





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MADE IN CHINA

说明书要求

尺寸: 120*160mm

印刷:黑白印刷

装订: 胶黏钉

纸张材质: 双胶纸

本页无需印刷