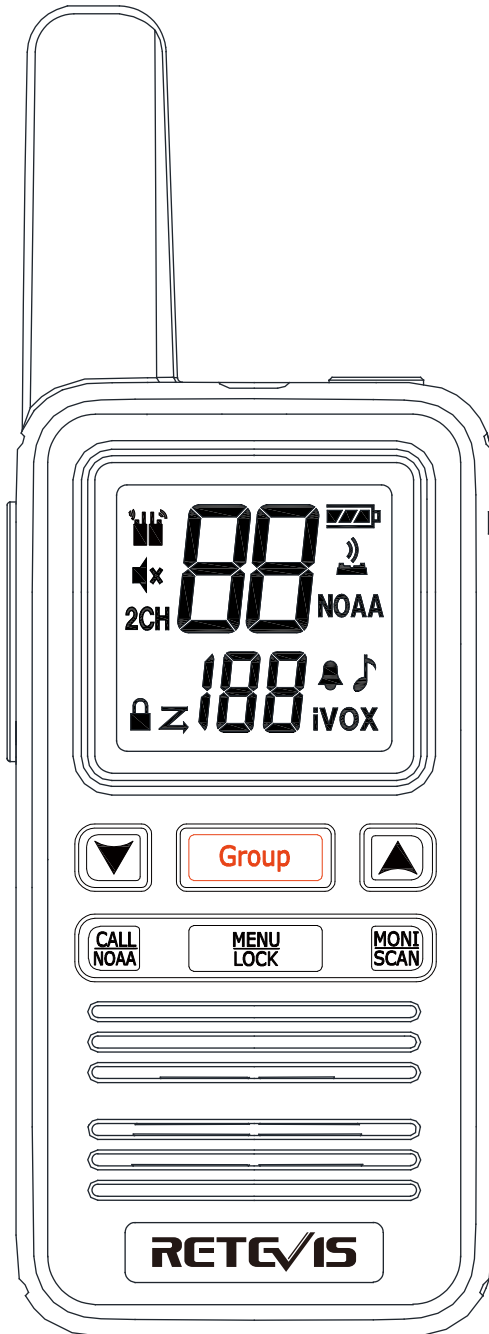


RETQVIS



RB67

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.

Functions and Specifications

- Functions and Specifications
- 22 analog channels
 - 159 sub-tones (50 CTCSS and 109 DCS)
 - VOX (Voice Control)
 - Call beep
 - LCD display
 - Roger beep
 - Battery level display
 - Channel monitoring
 - One-key group call
 - Channel scanning
 - Keyboard lock
 - Keyboard sound (on/off)
 - Remove/restore channel CTCSS/DCS
 - NOAA (weather forecast)

NOTE: Coverage will vary depending on environmental and/or terrain conditions.

Accessories List

Name	Quantity
Lanyard	1
Battery	1
Belt clip	1
User's Manual	1
Power adapter	1
Charging cable	1

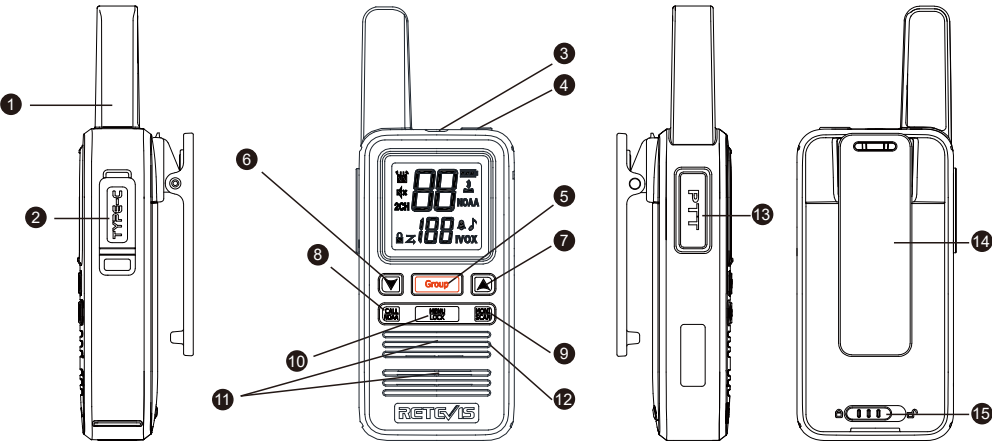
Open box to check

Please carefully get the walkie-talkie from the box. We recommend that you to check if the included accessories are all in the package. If any items are lost during delivery or damaged, please contact your dealer immediately.

Charging battery

Please use the specified adapter to charge the battery.

Status	Indicator
Battery charging	Red light on
Fully charged	Red light off



- 1, Antenna

2, Type-c Charging/earphone hole

3, Status indicator

4, Power on/off button

5, Group call key

6, Down key

7, Up key

8, Call Tone/Weather Forecast
- 9, Monitor/Scan

10, Menu key/keypad lock

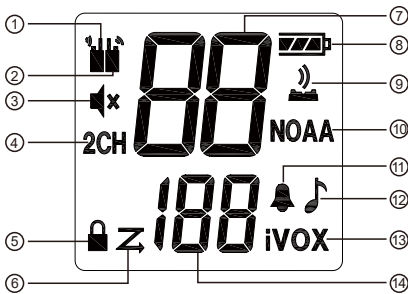
11, Speaker

12, Mic

13, PTT key

14, Belt clip

15, Lock

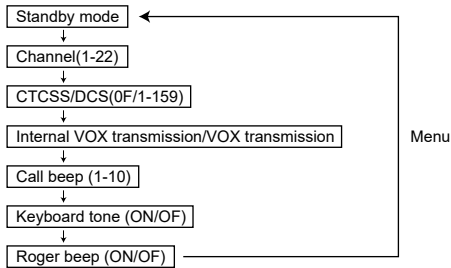


No.	Icon	Description
1		Receive instructions
2		Transmit instructions
3		Mute indicator
4		Dual Channel Monitor Indication
5		Keypad lock indicator (on/off)
6		Scan Indicator (On/Off)
7		Channel indication (1/16)
8		Battery level indicator
9		Keyboard tone indicator (on/off)
10		Weather forecast indication (on/off)
11		Roger beep indicator (on/off)
12		Call Prompt Tone (1/10)
13		VOX(OFF/1/2/3)
14		CTCSS/DCS indication (1/159)

Note: 1. For the purpose of saving battery power, when the screen is on and there is no operation for 10 seconds, the screen will turn off the bright screen state (the backlight mode is selected by default and cannot be changed).
 2. Press any button to wake up the screen to brighten the screen (default backlight mode,cannot be changed).
 3.Enter the menu option, it will automatically exit the menu option after 10 seconds of no operation.

Menu options

Short press (function key icon) to switch menu options



Select channel

1. Short press the key to enter the channel selection mode.
2. Short press the or key to switch channels, and long press the up and down keys to quickly browse channels.
3. Short press the PTT button to confirm and exit the menu.
4. Short press the key to continue setting.

Select CTCSS/DCS

1. Short press the key to enter the tone selection mode.
2. Short press the or button to select the CTCSS/DCS decoding, and long press the up and down keys to quickly browse the CTCSS/DCS.
3. Short press the PTT button to confirm and exit the menu.
4. Short press the key to continue setting.

NOTE: CTCSS/DCS can minimize interference by blocking transmissions from unknown sources. The walkie-talkie has 159 CTCSS/DCS codes.

VOX

- 1.Short press the button, when the VOX icon is displayed on the LCD screen, connect the audio accessory and display VOX icon.
2. Press the or key to select the voice control sensitivity level, and long press the up and down keys to quickly browse the voice control level.
3. Short press the PTT button to confirm and exit the menu.
4. Short press the key to continue setting.

Note: When using VOX, there is a short delay (about 3 seconds).

3=Low sensitivity, suitable for noisy environment
2=medium sensitivity, suitable for most environments
1=high sensitivity, suitable for quiet environment

Set call tone

- 1.Short press the key, the icon will be displayed on the LCD screen.
2. Short press or to switch the call prompt, and long press the up and down keys to quickly browse.
3. Short press the PTT button to confirm and exit the menu.
4. Short press the key to continue setting.



Note: When setting the same channel and CTCSS/DCS, short press the key, the icon will be displayed on the screen, and the receiving end will receive a call tone prompt.

159 CTCSS/DCS

50 groups of standard CTCSS [Hz]															
No.	CTCSS	No.	CTCSS	No.	CTCSS	No.	CTCSS	No.	CTCSS	No.	CTCSS	No.	CTCSS	No.	CTCSS
1	67.0	8	85.4	15	107.2	22	136.5	29	165.5	36	186.2	43	210.7	50	254.1
2	69.3	9	88.5	16	110.9	23	141.3	30	167.9	37	189.9	44	218.1		
3	71.9	10	91.5	17	114.8	24	146.2	31	171.3	38	192.8	45	225.7		
4	74.4	11	94.8	18	118.8	25	151.4	32	173.8	39	196.6	46	229.1		
5	77.0	12	97.4	19	123.0	26	156.7	33	177.3	40	199.5	47	233.6		
6	79.7	13	100.0	20	127.3	27	159.8	34	179.9	41	203.5	48	241.8		
7	82.5	14	103.5	21	131.8	28	162.2	35	183.5	42	206.5	49	250.3		
109 sets of DCS															
No.	DCS	No.	DCS	No.	DCS	No.	DCS	No.	DCS	No.	DCS	No.	DCS	No.	DCS
51	D023N	65	D073N	79	D156N	93	D251N	107	D332N	121	D445N	135	D532N	149	D712N
52	D025N	66	D074N	80	D162N	94	D252N	108	D343N	122	D446N	136	D546N	150	D723N
53	D026N	67	D114N	81	D165N	95	D255N	109	D346N	123	D452N	137	D565N	151	D731N
54	D031N	68	D115N	82	D172N	96	D261N	110	D351N	124	D454N	138	D606N	152	D732N
55	D032N	69	D116N	83	D174N	97	D263N	111	D356N	125	D455N	139	D612N	153	D734N
56	D036N	70	D122N	84	D205N	98	D265N	112	D364N	126	D462N	140	D624N	154	D743N
57	D043N	71	D125N	85	D212N	99	D266N	113	D365N	127	D464N	141	D627N	155	D754N
58	D047N	72	D131N	86	D223N	100	D271N	114	D371N	128	D465N	142	D631N	156	D243I
59	D051N	73	D132N	87	D225N	101	D274N	115	D411N	129	D466N	143	D632N	157	D332I
60	D053N	74	D134N	88	D226N	102	D306N	116	D412N	130	D503N	144	D645N	158	D731I
61	D054N	75	D143N	89	D243N	103	D311N	117	D413N	131	D506N	145	D654N	159	D743I
62	D065N	76	D145N	90	D244N	104	D315N	118	D423N	132	D516N	146	D662N		
63	D071N	77	D152N	91	D245N	105	D325N	119	D431N	133	D523N	147	D664N		
64	D072N	78	D155N	92	D246N	106	D331N	120	D432N	134	D526N	148	D703N		


Keyboard sound

1. Short press the  key, the icon  will be displayed on the LCD screen.

2. Short press  or  to select on/off.



3. Short press the PTT button to confirm and exit the menu.

4. Short press the  key to continue setting.

Note: When the volume of the walkie-talkie is adjusted, the key tone will also change with the increase/decrease. When the walkie-talkie is muted, the icon  will be displayed on the screen.

Roger beep

1. Short press the  key, the icon  will be displayed on the LCD screen.


2. Short press  or  to select on/off.


3. Short press the PTT button to confirm and exit the menu.

4. Short press the  key to continue setting.


Transmit and receive

1. Hold the walkie-talkie 2-3 cm away from your mouth.

2. Long press the PTT key during talking, and the LCD screen will display the transmit icon .

3. Release the PTT button to receive, when the walkie-talkie receives a signal matching the channel, the LCD screen will display receive icon .

Battery level display

The battery power display icon  (0-3 grids) shows the current remaining battery power. When the battery shows that there is no bar, it will send out a "crack" prompt every 15 seconds. When the power is lower than 3.1V, it will automatically shut down.

Battery status	Battery voltage
3 grids	3.9V-4.2V
2 grids	3.6V-3.8V
1 grid	3.2V-3.5V
0 grid	less than 3.2V



Battery capacity maintenance

1. When not in use, charge the lithium battery once a month.

2. When storing, remove the battery from the walkie-talkie.

3. Store lithium batteries in a place with a temperature between -20°C and 35°C and low humidity, avoiding moisture wet conditions and corrosive materials.



Scan

1. Long press the  key, and the screen will display the  icon to start scanning.

2. When the channel detected by the walkie-talkie matches the current channel number and CTCSS/DCS, the walkie-talkie will stop scanning.



- Scan and answer the message of the other party. After the other party stops talking, you need to press the PTT key to respond within 3 seconds, otherwise the scanning will continue.
- Press the PTT button within 3 seconds after the end of the transmission, you can talk.
 - Short press the PTT key to exit the scan.


Monitor

Monitoring is generally better when the other party's signal in the current channel is poor or intermittently pressed. Short press the  button to turn on the monitoring function, and then press the  button to turn it off.


Group call channel

The current receiving state of the walkie-talkie is dual watch mode: current channel mode and group call channel mode.





- Press the  key to transmit, the screen will display channel 16; the screen of the receiver will also display channel 16, press  to talk.
- When the walkie-talkie is left unattended for 3 seconds, it will automatically exit the group call and return to the current channel, thus avoiding miss key information and improve the communication efficiency of both parties in the call.

Note: Dual watch is turned on by default after the walkie-talkie is turned on, and it cannot be turned off. Press the PTT key to transmit on the current channel, and press the  key to transmit on the group call channel. Channel 16 is a fixed waiting channel and cannot be changed.










Remove/recover channel CTCSS/DCS

Hold down the  button and press the power button at the same time to restore the factory setting CTCSS/DCS.

Keyboard lock

Long press the  key, the icon  will be displayed on the screen, and the keyboard will be locked. After the keyboard is locked, only PTT,  can be operated, and then long press the  key to unlock the operation.

Weather forecast (NOAA)

- Press  and hold the button, when NOAA is on, squelch is on, and the NOAA icon will be displayed on the screen
 - Short press the  key to enter the weather forecast mode. Press  or  to change weather forecast (NOAA) Channel, long press the up and down keys to quickly browse channels, and short press  to start scanning channels.
 - In the weather forecast mode, short press the  key and the current weather forecast channel is flashing, then short press  key OF is flashing, press the  or  key to turn on/off the weather forecast automatic warning.
 - Press the PTT button to confirm the weather forecast channel, and then press the PTT button to exit NOAA.
 - Channel talking is disabled in NOAA enabled mode.
- Note:** The weather forecast (NOAA) needs the support of the country or region where it is located.

Troubleshooting Guide

Question	Solution
No power	The battery pack may be exhausted. Please replace the battery pack or recharge it. The battery pack may not be installed correctly, please remove it and install it again.
Battery power doesn't last long after charging	The battery pack has reached the end of its life, please replace it with a new one.
Cannot chat with other members of the group	Make sure you are using the same frequency and CTCSS/DCS as other members of the group. Other members of the group may be too far away. Confirm that you are within the effective range of other walkie-talkie.
Other (non-group member) voices appear in the channel	Please change CTCSS/DCS settings, be sure to change the settings of all walkie-talkie in the group.



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 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.

•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 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. 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.



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 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:



• 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.
- 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>

Factory Setting

CH NO.	Frequency(MHz)	Power
1	462.5625	High
2	462.5875	High
3	462.6125	High
4	462.6375	High
5	462.6625	High
6	462.6875	High
7	462.7125	High
8	467.5625	Low
9	467.5875	Low
10	467.6125	Low
11	467.6375	Low
12	467.6625	Low
13	467.6875	Low
14	467.7125	Low
15	462.5500	High
16	462.5750	High
17	462.6000	High
18	462.6250	High
19	462.6500	High
20	462.6750	High
21	462.7000	High
22	462.7250	High

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.



CE FCC RoHS 

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MADE IN CHINA