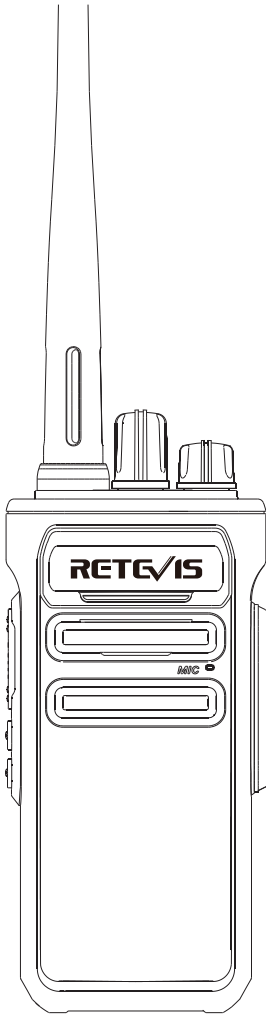


RETQVIS



RB23 **Wakie Talkie** **User's manual**

To user:

Welcome to shopping our two way radios. We believe our product can bring great convenience to your life and work.

Retevis two way radios are manufactured by using the advanced technologies, and We hope you will be satisfied with the quality and functionality of this product. This two way radio can give you a more convenient, fast, and reliable usage experience.

Warning:

- Please read this manual carefully before using this transceiver.
- Please do not communicate or charge this transceiver in flammable, explosive and area which transceiver communications prohibited (such as oil station, gas station, airport, etc.)
- Please do not operate this transceiver without license in government laws banned areas.
- Please make sure this transceiver avoids the sunshine and avoids putting it near any heating device.
- Please make sure this transceiver avoids any dusty, humid and water splashed place. Do not put it in unstable place.
- If transceiver smells or smokes, please remove the battery pack from transceiver at once, and then please contact us or your nearest distributor.
- The repair job of this transceiver is in the charge of professionals and technical, self-disassembly is prohibited.

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Unboxing and checking

Carefully unpack the transceiver. We recommend that you identify the items in the following table before discarding the packing material. If any item is missing or has been damaged during shipment, please contact the deliveryman or your seller.

1. Accessories list

Enclosed Accessories	Quantity
Batley	1
Clip	1
Adapter	1
Desk charger	1
Strap	1
Manual	1

Getting Start

Notice:

- Please do not charge for a long time. Please stop charging if the battery is not fully charged within the specified time. The battery will overheat or smoke and burst or burst into flames.
- Please do not put the battery in microwave or high-pressure vessel. The battery will overheat or smoke and burst or burst into flames.
- Please keep cracked and leaked batteries away from fire. If the battery leak (or exuded a pungent smell), keep the battery away from flammable areas immediately. The electrolyte is flammable and may cause the battery to smoke or burst into flames.
- Please do not use abnormal battery. Please remove the battery from charger or device if the battery exuded a pungent smell, change color, deformation or behave abnormally for any reason.
- Please use the specific charger. The charger is specially designed for this radio, and it is more reasonable, safe and reliable.

1. Use of li-ion battery packs.

- Charge before use.
- To avoid power loss, please remove the battery and store in a cool and dry place if you are not using.
- When storing the battery for a long time:
 - remove the battery from device
 - if it is possible, discharge the battery
 - store in a cool (below 77 °F) and dry place.

2. Battery pack characteristics.

- The battery capacity gradually decreases after repeated charging and discharging.
- Battery age even if it is never used.
- It takes longer to charge a Li-ion battery in a cool place.
- Charging in a hot place will shorten the service life. Battery age faster when stored in a hot place. So please do not put the battery in the car or near the heater.
- If the battery lasts for a short time, replace the battery even if it is fully charged. Continuing to charge and discharge the battery will cause the electrolyte to leak.

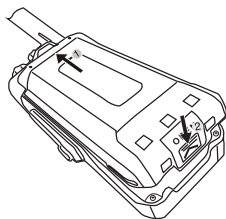
3. Charging

Put the transceiver into charger, in this case transceiver indicator light is red means charging. After charger full, the indicator is green.

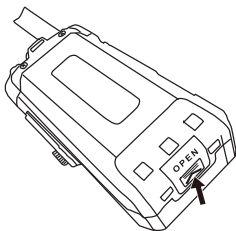
4. Install/Remove battery

Notice:

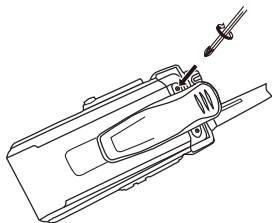
- Do not short-circuit the battery or throw the battery into fire.
- Do not try to remove the battery shell
- Do not install the battery in hazardous conditions, the sparks will cause explosions.



Insert the top terminal vertices of the battery into the slots in the radio battery slot, then press the bottom of the battery until hear the snap sound.

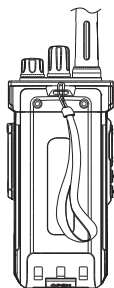


To remove the battery, please ensure that the radio is off, and then push the battery latch button at the bottom of the radio to the right. Remove the upper part of the battery from the radio and remove the battery.



5. Install/Remove the back clip.

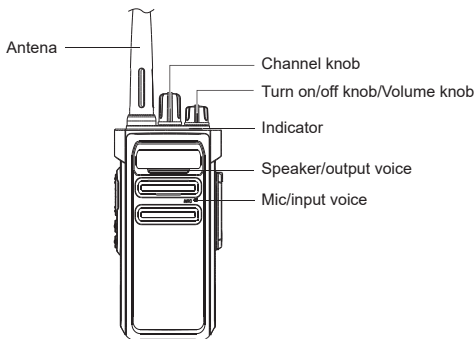
If necessary, the configured back clip can be locked on the back of the battery by screw for easy carrying. Unscrew two screws to remove the clip.

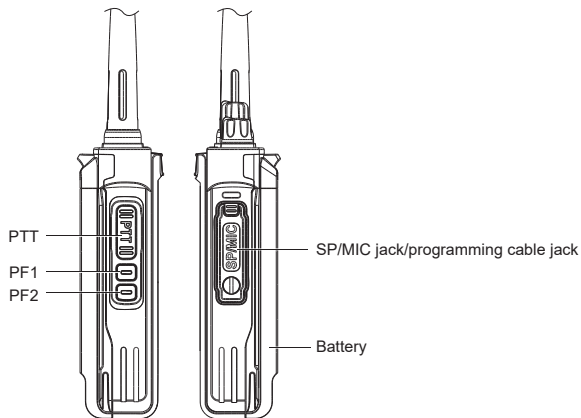


6. Install the strap.

Slip the radio strap into the ring in the middle of the radio.

Familiar with the radio.





Basic operations

1. Indicator

Red light in transmission, and green light in reception.

2. Channel knob.

Rotate channel knob to switch the channel 1~30. Counterclockwise rotation reduces the channel number, clockwise rotation increases the number of channels. The prompt alert ring when the channel is free.

3. Power ON/OFF knob/Volume adjust knob

Clockwise rotation to turn on the radio, counterclockwise rotation and hear a click to turn off the radio. Volume adjusting when rotation.

4. PTT button

Press [PTT] button and speak to call, light red. Light red with alert when the channel is free. Release [PTT] button to receive, light green and speaker works.

5. Customize the side keys

Program the side keys' function on programming software of RB23.

Short press [PF1] or [PF2]:

A. Monitor B. Alert C. VOX D. VOX delay E. Scan

Monitor: listen for calls on the chosen channel. If there is no call it is noisy.

Alert: activate the alert function, press [PTT] to return.

VOX: Turn on/off VOX function.

VOX delay: adjust the time of delay.

Scan: Automatically detects channels with scanning enabled in channels from 1 to 30. When there is a signal in the channel being scanned, the radio will stop on the channel for speaking. (Scan function can be customized for each channel in the programming software)

6. Squelch level

Signal reception integrity can be adjusting the squelch level. The lower the squelch level, the less noise filtering, and the longer distance, but the weaker the anti-interference ability.

The factory setting of the radio is level 5. The level can be chosen from 0~9 in the 'squelch level', 'function setting' list in programming software. Level 0 means squelch normally open.

7. TOT: Time out timer

The purpose of the TOT is to prevent single radio from occupying the channel for too long, and to avoid damage

caused by continuous transmission of the radio. If the transmission time exceeds the limit time, the radio will stop transmitting and prompt alert. Release [PTT] return to receive condition.

8. Scan

When channels are set to scannable, rotate channel knob to one channel enter the scanning. If the current channel is 16, the radio can detect the signal from channel 1~30 (Scan function can be customized for each channel in the programming software). When there is a signal in the channel being scanned, the radio will stop on the channel for speaking.

Notice: a. the channel will stop at the channel with signal, continue scan next channel after 10 second when loss the signal.

b. When the number is scannable channels is less than two, the scan function cannot be enabled.

9. Prompt Voice

Turn off the prompt voice, there is no voice when operating; turn on the English prompt voice function when choosing English.

10. Battery Save Function

Setting in the software enter the battery save mode.

Notice: a. No check means the battery save function turn off.

b. Check means the battery save function turn on.

11. Battery voltage warning.

Notice: When the battery voltage is lower than a level, if the voice prompt turns off, a 'Clip-clop' sound will be emitted every 30 seconds, and if the voice prompt is on, a 'low voltage' sound will be emitted.

12. BCL

If busy channel lock is set, press [PTT] to prohibit transmission and beep after receiving the signal, until release the [PTT].

13. VOX

VOX function can transmit by the speaking voice, do not press [PTT]. Stop transmission after stop speaking. To activate the function in the programming software.

a. Activate the VOX function.

speaking to the speaker, the VOX function work and transmit the voice.

Stop speaking, the transmission stops and wait for reception.

b. When connect head earpiece with mic.

To adjust the VOX gain to adjust the volume if activate the VOX function.

If the microphone is too sensitive, the noise will activate the VOX for transmission. If the microphone is not sensitive enough, the voice is difficult to activate the VOX function and cannot transmission. So be sure to adjust the VOX gain level before use.

Notice: if the VOX gain level is high, and it will transmission when the voice plays by mic.

14. QT/DQT

QT/DQT can be set by programming software on the channel. The squelch can be activated when receiving the same QT/DQT as the channel set. The squelch cannot be activated and light green when receiving the different QT/DQT for call.

The QT/DQT list is as follows:

QT (50)

67.0	69.3	71.9	74.4	77.0	79.7	82.5	85.4	88.5	91.5
94.8	97.4	100.0	103.5	107.2	110.9	114.8	118.8	123.0	127.3
131.8	136.5	141.3	146.2	151.4	156.7	159.8	162.2	165.5	167.9
171.3	173.8	177.3	179.9	183.5	186.2	189.9	192.8	196.6	199.5
203.5	206.5	210.7	218.1	225.7	229.1	233.6	241.8	250.3	254.1

DQT (116*2)

D017N	D023N	D025N	D026N	D031N	D032N	D036N	D043N	D047N	D050N
D051N	D053N	D054N	D055N	D065N	D071N	D072N	D073N	D074N	D114N
D115N	D116N	D122N	D125N	D131N	D132N	D134N	D135N	D143N	D145N
D152N	D155N	D156N	D162N	D165N	D172N	D174N	D205N	D212N	D217N
D223N	D225N	D226N	D243N	D244N	D245N	D246N	D251N	D252N	D254N
D255N	D261N	D263N	D265N	D266N	D271N	D274N	D305N	D306N	D311N
D315N	D325N	D331N	D332N	D343N	D345N	D346N	D351N	D356N	D364N
D365N	D371N	D411N	D412N	D413N	D423N	D425N	D431N	D432N	D445N
D446N	D452N	D454N	D455N	D462N	D464N	D465N	D466N	D503N	D506N
D516N	D523N	D526N	D532N	D534N	D546N	D565N	D606N	D612N	D624N
D627N	D631N	D632N	D645N	D654N	D662N	D664N	D703N	D712N	D723N
D731N	D732N	D734N	D743N	D754N	D765N				

Parameter

Frequency Range	GMRS
Channel Number	30
Max Power	5W
Audio Distortion	<5%
Frequency Stability	±2.5ppm
MAX Frequency Deviation	< 5KHz/< 2.5KHz
Spurious Emission	≤7uW
Modulation Mode	16KØF3E /11KØF3E
Reference Sensibility	<0.25uV1 <0.3uV
Squelch On Sensibility	<0.2uV1 <0. 25uV
Adjacent Channel Selectivity	≥65dB
Spurious Response	≥55dB
Intermodulation	≥60dB
Current	≤1,5A
Working Voltage	7.4V DC
Operating Temperature	-20C-+60C

CH	TX	RX	GMRS		CTC/DCS
			Power	Bandwidth	
1	462.5625	462.5625	5W	12.5KHz	67
2	462.5875	462.5875	5W	12.5KHz	118.8
3	462.6125	462.6125	5W	12.5KHz	127.3
4	462.6375	462.6375	5W	12.5KHz	131.8

5	462.6625	462.6625	5W	12.5KHz	136.5
6	462.6875	462.6875	5W	12.5KHz	141.3
7	462.7125	462.7125	5W	12.5KHz	146.2
8	467.5625	467.5625	0.5W	12.5KHz	D243N
9	467.5875	467.5875	0.5W	12.5KHz	D032N
10	467.6125	467.6125	0.5W	12.5KHz	D047N
11	467.6375	467.6375	0.5W	12.5KHz	D051N
12	467.6625	467.6625	0.5W	12.5KHz	D053N
13	467.6875	467.6875	0.5W	12.5KHz	D065N
14	467.7125	467.7125	0.5W	12.5KHz	D116N
15	462.5500	462.5500	5W	12.5KHz	123
16	462.5750	462.5750	5W	12.5KHz	D743I
17	462.6000	462.6000	5W	12.5KHz	D332I
18	462.6250	462.6250	5W	12.5KHz	127.3
19	462.6500	462.6500	5W	12.5KHz	D243I
20	462.6750	462.6750	5W	12.5KHz	D606N
21	462.7000	462.7000	5W	12.5KHz	D731I
22	462.7250	462.7250	5W	12.5KHz	136.5
23	467.5500	467.5500	5W	12.5KHz	136.5
24	467.5750	467.5750	5W	12.5KHz	136.5
25	467.6000	467.6000	5W	12.5KHz	136.5
26	467.6250	467.6250	5W	12.5KHz	136.5
27	467.6500	467.6500	5W	12.5KHz	136.5
28	467.6750	467.6750	5W	12.5KHz	136.5
29	467.7000	467.7000	5W	12.5KHz	136.5
30	467.7250	467.7250	5W	12.5KHz	136.5

RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE FOR PORTABLE 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.

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:

•(If applicable)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.

•(If applicable)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 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(if applicable)

- 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 (if applicable):
- 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(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.

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



- 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:



- 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

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>

RETEVIS

Guarantee

Model Number: _____ Serial Number: _____

Purchasing Date: _____

Dealer: _____ Telephone: _____

User's: _____ Telephone: _____

Country: _____ Address: _____

Post Code: _____ Email: _____

Remarks:

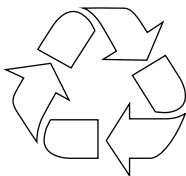
1. This guarantee card should be kept by the user, no replacement if lost.
2. Most new products carry a two-year manufacturer's warranty from the date of purchase. Further details, pls read <http://www.retevis.com/after-sale/>
3. The user can get warranty and after-sales service as below:
 - Contact 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.

Cut along this line





CE FC RoHS



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MADE IN CHINA

说明书要求

尺寸：120*160mm

印刷：

- 1、黑白印刷
- 3、内页黑白印刷

装订：胶合订

纸张材质：

- 1、普通印刷纸

Sh

本页无需印刷