



RB17A Two Way Radio

User's Manual









Shenzhen Retevis Technology Co., Ltd.

7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China Web: www.retevis.com



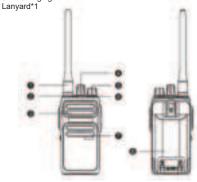




User's manual

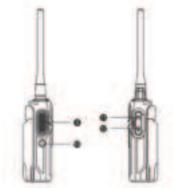
Basic Introduction

Package Includes Radio*1 Li-ion Battery Pack*1 User's Manual*1 Belt Clip*1 USB Charging Base*1



- Antenna
- alarm
- Speaker
- 4 Channel Knob
- 6 Volume knob
- 6 Indicator Light

- Microphone
- 8 Battery
- PTT
- Side Key
- Earphone Interface
- Microphone Interface



Status of Indicator light

1-Indicator

Green light flashes when radio is receiving. Red light flashes when radio is transmitting. The green light flashes about every 3 seconds while waiting.

2-Channel Switch

30 channels available, choosing the desired channel to communicate from 1-30 numbers by channel knob switch.

3-Power Switch

Rotating the volume knob reduces/increases volume level and switching power supply.

4-PTT

Over the side of the radio is the PTT switch.Press PTT and face to the microphone to communicate with the others while red light indicating.

5-Monitor

Press the monitor key on the side of the radio to turn on the function of receiving and monitoring.

6-Sauelch level

The purpose of the squelch is to mute the speaker when no signals are present

Lower squelch level ,high background noise hear ,longer communication range ,weaker the anti-inference . Default squelch level is 5 and can be programmed level 0-9

by PC . Level 0 is to open the squelch. The higher the selected squelch level, the stronger the signals must be when receiving

7-TOT

This function can prevent users from occupied the present channel for a long time and limit TX time, meanwhile prevent the radio from damage by long time transmitting If radio continues TX over the limit time (set by the programming software), the radio will quit TX and sounds a warning sound. To stop warning sound, release the PTT, the radio will back to the receiving state. When TX over time, through the bell to carry out the early warning in advance(setting by program software)

8-Scan

If you need to use scan function, you need to set at least 2 channels to scan, then set up the side button on the programming software. Press the side button to turn on the scan function.press again to turn off.

9-CTCSS

Check the Hopping option of program, CTCSS can become into Non-standard TONE, so that increasing voice privacy.

10-Voice annunciation

Please choose the desired language by PC programming software.

11-Power Saving Function

Please select to enable or disable the power save function by PC program software.

12-Battery Voltage Alert

When the battery voltage is lower than a 3.1V, the voice will sound "please charge", and prohibit transmitting.

13-Busy Channel Lockout

If radio programmed with BCLO function, pressing PTT to prohibit TX after receiving the signal and accompanied by a long beep alarm sound.

14-High /Low Power Switch

Radio default setting is high power . You can switch high /low power by PC programming software.

15-VOX

Enable or disable VOX by PC programming software. When your radio turn on the VOX function, talking to the microphone, then the voice will be sent out; Stop talking, then the radio will be in receiving state.

when you use the earphone, need to adjust the VOX level in an appropriate level. If the microphone is too sensitive, the noise will activate transmitting; if the microphone is not sensitive enough, your voice will not activate transmitting. In order to communicate successfully, please adjust the appropriate level.

16-QT/DQT

You can set the CTCSS/DCS by PC programming software. When the channels are set the CTCSS/DCS, squelch can be turned on when received a signal with the same CTCSS/DCS. The two radios can talk with each other, If the comp

same channel uses a different QT/DQT, the squelch can not be turned on and the light will be green. The two radios can't talk with each other

QT :(total 50) DQT:(total 116*2)

17-Local alarm function

Press the alarm button on the top of the radio. At this time, the radio will send out the alarm sound. When press it again, the alarm turns off

Frequency

UHF					
Channel number	TX	RX	power	Subaudio	
1	462.5625	462.5625	LOW	67.0	
2	462.5875	462.5875	LOW	118.8	
3	462.6125	462.6125	LOW	127.3	
4	462.6375	462.6375	LOW	131.8	
5	462.6625	462.6625	LOW	136.5	
6	462.6875	462.6875	LOW	141.3	
7	462.7125	462.7125	LOW	146.2	
8	467.5675	467.5675	LOW	D243N	
9	467.5875	467.5875	LOW	D032N	
10	467.6125	467.6125	LOW	D047N	
11	467.6375	467.6375	LOW	D051N	
12	467.6625	467.6625	LOW	D053N	
13	467.6875	467.6875	LOW	D065N	
14	467.7125	467.7125	LOW	D116N	
15	462.5500	462.5500	LOW	123	
16	462.5750	462.5750	LOW	D743I	
17	462.6000	462.6000	LOW	D332I	
18	462.6250	462.6250	LOW	127.3	
19	462.6500	462.6500	LOW	D243I	
20	462.6750	462.6750	LOW	D606N	
21	462.7000	462.7000	LOW	D731I	
22	462.7250	462.7250	LOW	136.5	
23	467.5500	462.5500	LOW	136.5	
24	467.5750	462.5750	LOW	136.5	
25	467.6000	462.6000	LOW	136.5	
26	467.6250	462.6250	LOW	136.5	
27	467.6500	462.6500	LOW	136.5	
28	467.6750	462.6750	LOW	136.5	
29	467.7000	462.7000	LOW	136.5	
30	467.7250	462.7250	LOW	136.5	

Troubleshooting

Questions	Answer	
No power	The battery maybe run out please renew it or recharge it. The battery may not be properly installed. Please take it off and re-install.	
Battery lasts a short time after charge	The battery life is over, please replace new battery	
Unable to speak to other members in the group	Verify the frequency and QT/DQT settings you are using is the same with other members in the group. Verify transmitting is within effective operating range.	
Hearing other conversation on a channel (not group members)	Please change the QT/DQT settings of all radio in this group.	
Low power alarm	Please charge in time to avoid battery damage.	

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 combiliance 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, Bundesnetzagentu...). 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.

•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 filling 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 filling 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.

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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

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.

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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 quidelines 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:		
Country:	Telephone: Telephone: 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.
- 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

说明书要求

尺寸: 144*105mm

印刷:黑白印刷

装订:骑马钉

纸张材质: 双胶纸

本页无需印刷