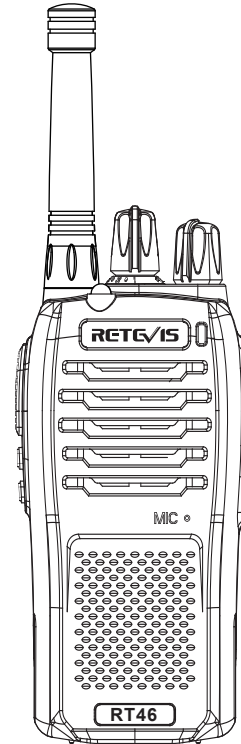


RETEVIS

USER'S MANUAL

Model: RT46
Walkie Talkie



Shenzhen Retevis Technology Co.,Ltd

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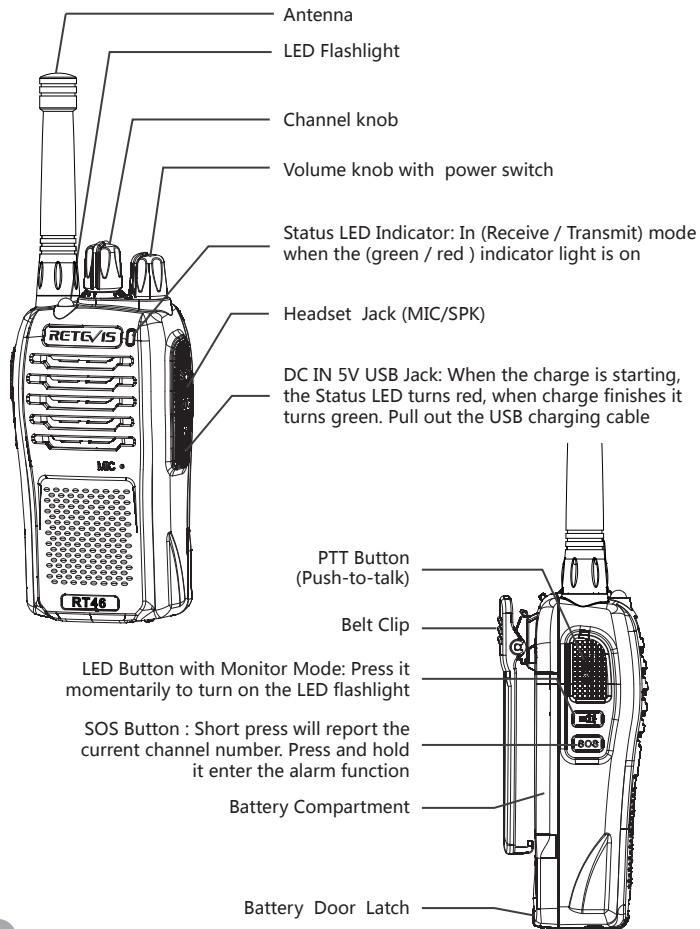
MADE IN CHINA

(EN)

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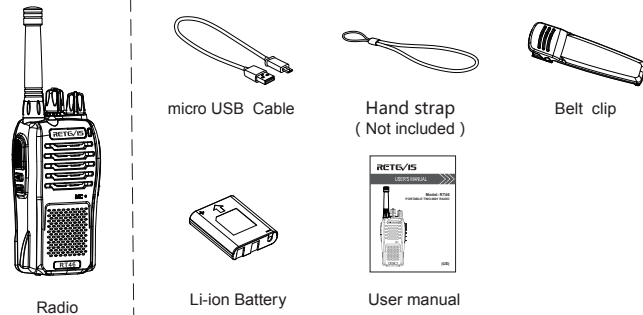
Control and Function



Unpacking and Inspecting

Please check the packaging of your radio for any signs of damage. Carefully open the box, and confirm you received the items listed below. If you find the radio or the included accessories are damaged or lost, immediately contact your dealer.

What's in the Box



Choice of Battery

Radio can use Li-ion rechargeable battery pack or 3xAA alkaline batteries.

Using the Micro-USB charger

The micro-USB charges is handy port that allows you to conveniently charge your Li-ion battery pack.

1. Make sure your radio is turned OFF.
2. Connect the AC adaptor to the radio's DC IN 5V.
3. Charge the battery pack for 3 hours. when charge finishes Status LED turns green. pull out the USB charging cable.

Note: If you don't use the supplied Micro-USB charging cable, the radio will make noise.

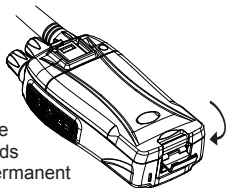
Battery Capacity Maintenance

1. Charge the batteries at least once every 3 months when not in use.
2. Remove the battery from the radio after using for storage purpose.
3. Store the batteries in temperatures between -20 to 35 and in low humidity Avoid damp conditions and corrosive materials

Open the Battery Door

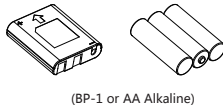
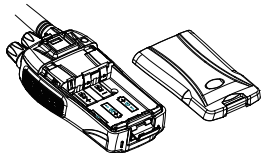
1. open the Battery door latch ,
2. remove the battery compartment door.

Caution: Exercise care when removing Li-ion or AA Alkaline batteries. Do not use sharp or conductive tools to remove either of these batteries. Remove the batteries before storing your radio for extended periods of time. Batteries corrode over time and may cause permanent damage to your radio.



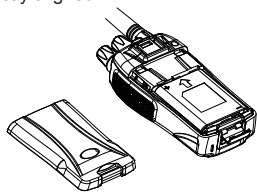
Installing the Battery

1. To remove the battery compartment door, Prepare the batteries.

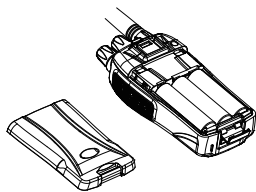


(BP-1 or AA Alkaline)

2. Insert Li-ion battery pack or 3 AA Alkaline batteries, Ensuring that the poles are correctly aligned.



or



Attaching the Belt Clip (Figure 1)

Attach the belt clip to the radio plate at the back of the radio until the clip clicks in place.



(Figure 1)

The Antenna Information (Figure 2)

The antenna is fixed antenna and can not be disassembled.



(Figure 2)

Installing the Earpiece (Figure 3)

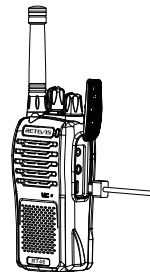
Open the cover of the earpiece jack, align the connector and push fully in.



(Figure 3)

Micro-USB Charger (Figure 4)

As shown in right Figure When the charge is starting, the Status LED turns red, when charge finishes it turns green. Pull out the USB charging cable.



(Figure 4)

Monitor Function

Monitor Function Enables you listen for weak signals on the current channel. If necessary, you can press and hold LED button to check for activity on the current channel before you talk. Press and hold SOS Button enter the Monitor mode, release exit the mode.

Scanning Channel

Turn the channel selector to channel 16, the transceiver will automatically detect the activities of scanning channel from 1 to 15.

Voice Operated TX

You can transmit hands-free more reliable with the use of optional headset accessories. Once VOX is turned on, the radio detects your voice and transmits when you speak. (set via software).

CTCSS / DCS

Using these features does not mean that others won't be able to listen in on your transmissions.

They only provide a method to filter out unwanted incoming transmissions. CTSS/DCS only could be changed via program software.

SOS Alarm Function

Press and hold SOS to activate the alarm function. Press SOS (a short press) again to turn it off.

Push-to-talk Timeout Timer

To prevent accidental transmissions and save battery life, the radio emits a continuous warning tone and stops transmitting if you press the PTT button for 180 continuous seconds.

Automatic Power Save

For better battery life, your radio is designed to switch to power Save mode when there has been no transmissions after 6 seconds. when the radio receive exit Automatic Power Save.

Low Battery Alert

The alert tone sounds every 15 seconds when the battery is low.

Computer Programming

The CTCSS or DCS, TOT, VOX.... only could be programmed by software, The radio kit don't include a programming cable. To attain a data cable, please contact your dealer for it and the soft ware.

Appendix

General	
Output Power	2W / 0.5W
Frequency Range	FRS / PMR
Battery Type	1000mAh Li-ion 3.7V (include) / 3xAA Alkaline (not include)
Work Temperature	-20 C ~ 60 C
Rated Voltage	5V ---1A
Spurious Power	≤7.5uw
Sensitivity (Recevier)	-122dBm (12dB SINAD)

Troubleshooting

Symptom	Ution
The radio doesn't start.	Change or recharge the battery . Remove the battery and reinstall it .
The battery dies quickly.	Purchase a new battery Recharge the battery.
Others can't hear your transmission	Change your CTSS or DCS Settings to match your peers. Move in closer.

Warnings

RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE FOR PORTABLE WALKIE TALKIE



ATTENTION!

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 walkie talkie uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. It uses radio frequency (RF) energy or radio waves to send and receive calls. RF energy is one form of electromagnetic energy. Other forms include, but are not limited to, sunlight and x-rays. RF energy, however, should not be confused with these other forms of electromagnetic energy, which when used improperly, can cause biological damage. Very high levels of x-rays, for example, can damage tissues and genetic material.

Experts in science, engineering, medicine, health, and industry work with organizations to develop standards for safe exposure to RF energy. These standards provide recommended levels of RF exposure for both workers and the general public. These recommended RF exposure levels include substantial margins of protection.

All Retevis walkie talkie 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 walkie talkie. 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 walkie talkie 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 walkie talkie 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, most of the classified walkie-talkie need to get local government License, and operation is allowed. The detailed

classification and the use of your two radios, please contact the local government radio management departments. For the following specified classification: the USA FRS, Australian CB, the individual license is not required.

Compliance with RF Exposure Standards (If appropriate, Reference to the actual product's Safety Marking)

Your Retevis walkie talkie is designed and tested to comply with a number of national and International standards and guidelines (listed below) for human exposure to radio frequency electro-magnetic energy.

FCC ID

The FCCID means: This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environments at operating duty factors of up to 50% talk-50% listen and is approved for occupational use only.



The CE marking means: Hereby, Shenzhen Retevis Technology Co., Ltd. declares that the radio equipment type RT30 is in compliance with the 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

NOTE: The approved batteries, supplied with this radio, are rated for a 5-5-90 duty factor (5% talk-5% listen-90% standby) even though this radio complies with FCC occupational exposure limits and may operate at duty factors of up to 50% talk.

IC ID

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

In terms of measuring RF energy for compliance with these exposure guidelines, your radio generates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

Note:

The approved batteries, supplied with this radio, are rated for a 5-5-90 duty factor (5% talk-5% listen-90% standby) even though this radio complies with FCC occupational exposure limits and may operate at duty factors of up to 50% talk.

RF energy exposure standards and guidelines (if appropriate)

Your Retevis walkie talkie complies with the following RF energy exposure standards

and guidelines:

- United States Federal Communications Commission (FCC), Code of Federal Regulations; 47 CFR part 2 sub-part J.
- American National Standards Institute (ANSI) / Institute of Electrical & Electronic Engineers (IEEE) C95. 1-2005
- IEEE Std. 1528:2013 and KDB447498, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- Institute of Electrical and Electronic Engineers (IEEE) C95.3-2002
- International Commission on Non-ionizing Radiation Protection (ICNIRP)
- Ministry of Health (Canada) Safety Code 6 & Industry Canada RSS-102.
- International Electrotechnical Com-mission IEC62209-2:2010]

RF Exposure Compliance and Control Guidelines and Operating Instructions

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

Guidelines:

- User awareness instructions should accompany the device when transferred to other users.
- Do not use this device if the operational requirements described herein are not met.

Operating Instructions:

- Transmit no more than the rated duty factor of 50% of the time. To Transmit (Talk), push the Push To Talk (PTT) button. To receive calls (listen), release the PTT button. Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting in terms of measuring for standards compliance.
- Transmit only when people outside the vehicle are at least the recommended minimum lateral distance away from a properly installed according to installation instructions, externally mounted antenna.
- When operating in front of the face, worn on the body, always place the radio in a Retevis approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use of Non-Retevis approved accessories may result in exposure levels, which exceed the IEEE/ICNIRP occupational/controlled environment RF exposure limits.
- If you are not using a body worn accessory and are not using the radio in the intended use position, in front of the face or at the body in the PTT mode or alongside of the head in the phone mode, then ensure the antenna and the radio are kept 2.5 cm (one inch) from the body when transmitting. Keeping the radio at a proper distance is important because RF exposures decrease with increasing distance from the antenna.

Hand-held Mode

- Hold the radio in a vertical position with the microphone (and other parts of the radio including the antenna) atleast 2.5 cm (one inch) away from the nose or lips. The antenna should be kept away from the eyes. Keeping the radio at a proper distance is important as RF exposure decreases with increasing distance from the antenna.



Phone Mode

- When placing or receiving a phone call, hold your radio 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 Burns

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.

Note:

- Pacemakers

Defibrillators or other Implanted Medical Devices Persons with pacemakers, Implantable Cardioverter-Defibrillators (ICDs) or other active implantable medical devices (AIMD) should:

- ALWAYS keep the radio more than 15cm from their pacemaker when the

radio is turned on.

- Consult with their physicians regarding the potential risk of interference from radio frequency transmitters, such as portable radios (poorly shielded medical devices may be more susceptible to interference).
- Turn the radio OFF immediately if they have any reason to suspect that interference is taking place.
- Do not carry the radio in a chest pocket or near the implantation site, and carry or use the radio on the opposite side of their body from the implantable device to minimize the potential for interference.

- Hearing Aids

Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

- Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.



WARNING

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.

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.



WARNING

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.

- Use of Communication Devices While Driving

- Always check the laws and regulations on the use of radios in the countries and areas where you drive.
- Give your full attention to driving and to the road.
- If available, use the hands-free facility.
- If driving conditions or regulations require it, pull off the road and park before making or answering a call.



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>

EU Importer:
Name: Germany Retevis Technology GmbH
Address: Uetzenacker 29,38176 wendeburg