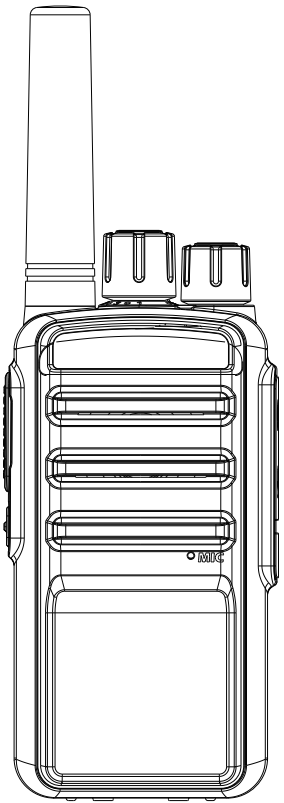
RETEVIS



NR10

USER'S MANUAL

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For downloading further resources:
Brochures, Software/Firmware, Manual etc, Please contact your direct reseller first OR go to website retevis.com and check “support” in the each product link to download it.

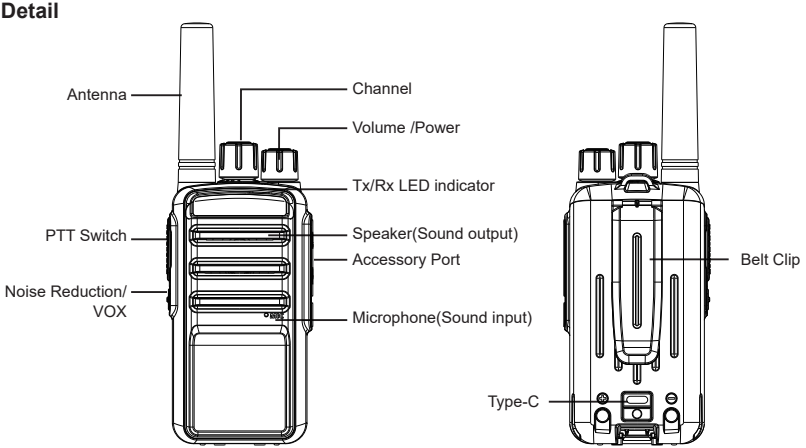
NOTE:
Please read this manual carefully before using this walkie-talkie.
· Do not charge this walkie-talkie in areas where flammable, explosive and radio communication is prohibited (e.g. gas stations, petrol stations, airports, etc.).
· Please do not operate this walkie-talkie without a license in areas where government laws prohibit it.
· Please make sure the walkie-talkie is protected from sunlight and avoid placing it near any heating equipment.
· Make sure that the walkie-talkie is protected from any dust, moisture and splashing water, and that it is placed near any heating equipment.
· If the walkie-talkie smells or smokes, remove the battery pack from the walkie-talkie immediately and contact your nearest dealer.
· The repair work of this walkie-talkie is in the hands of professional technicians, self disassembly is strictly prohibited.

Charging precautions
· Please use the charging stand matched to this model for charging.
· When charging the whole machine, it is recommended to turn off the intercom first.
· In order to get the best battery performance for use, please charge at least 5 hours for the first time.
· Do not charge the battery pack for a long time, otherwise it will shorten the life of the battery pack. When the battery is fully charged, please stop charging in time.
· This charger only charges the battery pack of this product, please do not charge other battery packs, otherwise it will cause damage to the charger and the battery pack.
· The battery pack should be fully charged and placed in a cool, dry place. Do not put it near the fire source or expose it to the sunlight, otherwise there are safety hazards.
· It is forbidden to transmit the product during the charging process of the intercom.
· It is normal for the battery pack to heat up slightly during the charging process.

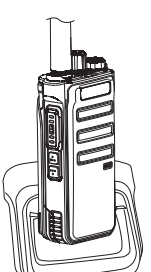
Technical parameters

Technical Specifications		
1	Frequency range	FRS
2	Output power	High：2W Low：0.5W
3	Narrow width	12.5KHz
4	channels	16CH
5	Working voltage	3.7V DC
6	Antenna impedance	50Ω
7	Charging current	300mA
8	Battery capacity	1200mAh
9	Operating temperature	-10℃ ~ +50℃
10	Receiving sensitivity	≤0.2μv
11	Audio output power	1W

Detail



Charging mode:
Walkie-talkie inserted into the charger charging slot, at this time the charger lights up red to indicate the start of charging, the green light is on to indicate that the battery charge has been saturated.



Check the walkie talkie before unpack

Packing list (with two supporting products)	
Name Description	Quantity
Walkie-talkie host	2
Lithium battery pack	2
Charging stand (with USB cable)	2
DC charging head	2
User Manual	1

Function operation

1. Power on/off

1.1 Turn the power switch clockwise to hear a "ka" to turn on the power.

1.2 Turn the power switch counterclockwise to hear a "ka" to turn off the power.

2. Volume adjustment

2.1 In the receiving state, turn the volume/power switch clockwise to increase the volume.

2.2 In the receiving state, turn the volume/power switch counterclockwise to decrease the volume.

3. Transmitting/Receiving

3.1 In standby mode, press and hold the transmit button (PTT) to transmit the signal of the current channel and the LED lights up in red.

3.2 Release the transmit button (PTT) to receive the signal sent from the same channel, the speaker makes a call sound and the LED lights up in green.

NOTE:

● When the walkie-talkie is transmitting, keep the walkie-talkie in a vertical position and keep the microphone 2.5-5 cm away from the mouth. When transmitting, the walkie-talkie is at least 2.5 cm away from your head or body.

● No need to perform multiple on and off actions during use, while adjusting the volume to a level suitable for your hearing.

Before talking on the walkie-talkie.

●Please set the frequency point of the transmitter and receiver to the same.

● Please set the sub tone code of transmitter and receiver to be the same for the channel you need to talk to.

4. Channel selection

In the standby state, turn the channel knob clockwise and counterclockwise while broadcasting and displaying the current channel number.

5. PTT switch

Press the PTT button and speak into the microphone to call the other party, the red light indicates. If this channel is not set to transmit frequency, it will sound a beep and red light is on, when released to receive, if there is a signal, it will light up the green indicator and turn on the speaker.

6. Voice selection

Select English, then open the English "voice notification" function, the factory default is English.

Voice selection off, the intercom will not send voice notification.

When the voice selection Chinese, then open the Chinese "voice notification" function.

7. Noise reduction/VOX key

Short press to open/close the noise reduction function, long press to open/close the VOX function.

When noise reduction is on, only human voice can be recognized, and information other than human voice is filtered out.

VOX control allows you to transmit without pressing the PTT button, only using the voice of the speech, and automatically stop transmitting when the speech stops. vox level can be set through the software, the default is 5 levels.

8. Low battery alarm function

When the walkie talkie voice prompts please "charge", and the indicator light flashes red, it means the battery is low voltage, please charge the battery as soon as possible. At this time, the intercom will prohibit the user to transmit operation, only in standby and receive mode.

(1) Press and hold the PTT key or voice-activated transmitting is invalid and "please charge" tone prompt, will sound "beep" tone until PTT release or voice-activated end.

(2) When the voltage is below a certain level, if the voice selection is turned off, it will sound a "de de de" tone every 15s.

9. Squelch level

Squelch level will determine the signal strength of the open intercom speaker. If the squelch level is lower, the background noise of the open intercom speaker will be higher, and the corresponding communication distance will be farther, but the anti-interference ability will be weaker. Can be set through the programming software "squelch level, you can choose 0 to 9 levels. The default setting is 5 levels.

10. Scan switch

If the current channel is 16 channels, the intercom will automatically detect the activity of channels 1 to 16 defined as scannable channels (software can define each channel can be scanned or not), when there is a signal on the scanned channel, the intercom will automatically stop on the channel in order to talk.

(1) The intercom will stop on the channel with signal, when the signal disappears and then after 10 or so, continue to scan the next channel.

(2) When there are less than 2 scannable channels, the intercom cannot scan.
(3) If you do not want to enter the scan in 16 channels, please select "Scan Add" for each channel as "No".

11. Transmit time limit function

In order to prevent some users to occupy the same channel communication for a long time, users can set to open the transmitting time limit function. When the user in the current channel continuous transmitting time reached the set time, the intercom will stop transmitting and horn transmitting time limit beep.
The transmit time limit can be set by programming software, 30-180 seconds (default is 60 seconds) can be selected.

12. Sub-tone code

This product supports 260 groups of sub-tone code function. 50 groups of analog sub-tone code and 105*2 groups (N phase and I phase) of digital sub-tone code can be set through the programming software.

Factory Settings

Channel	Frequency(MHz)	Power(W)
1	462.5625	2W
2	462.5875	2W
3	462.6125	2W
4	462.6375	2W
5	462.6625	2W
6	462.6250	2W
7	462.7250	2W
8	462.6875	2W
9	462.7125	2W
10	462.5500	2W
11	462.5750	2W
12	462.6000	2W
13	462.6500	2W
14	462.6750	2W
15	462.7000	2W
16	462.7250	2W

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

Before using this radio, read this guide which contains important operating instructions for safe usage and rf energy awareness and control for compliance with applicable standards and regulations.

•User instructions should accompany the device when transferred to other users.
•Do not use this device if the operational requirements described herein are not met.
This two-way radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. RF energy, which when used improperly, can cause biological damage.
All Retevis two-way radios are designed, manufactured, and tested to ensure they meet government-established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of two-way radios. These instructions are important because they inform users of RF energy exposure and provide simple procedures on how to control it.
Please refer to the following websites for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure limits: http://www.who.int/en/
When two-way radios are used as a consequence of employment, the Local Government Regulations requires users to be fully aware of and able to control their exposure to meet occupational requirements. Exposure awareness can be facilitated by the use of a product label directing users to specific user awareness information. Your Retevis two-way radio has a RF Exposure Product Label. Also, your Retevis user manual, or separate safety booklet includes information and operating instructions required to control your RF exposure and to satisfy compliance requirements.

Radio License(only applicable to licensed radio)
Governments keep the radios in classification, business two-way radios operate on radio frequencies that are regulated by the local radio management departments (FCC, ISED, OFCOM, ANFR, BFTK, Bundesnetzagentur...).To transmit on these frequencies, you are required to have a license issued by them. The detailed classification and the use of your two radios, please contact the local government radio management departments.
Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

Unauthorized modification and adjustment
Changes or modifications not expressly approved by the party responsible for compliance may void the user's authority granted by the local government radio management departments to operate this radio and should not be made. To comply with the corresponding requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services.
Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the local government radio management departments equipment authorization for this radio could violate the rules.

FCC Requirements:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
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:
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
•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.
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 before removing (installing) a battery or accessory or when charging battery.
•Turn off your radio when you are in a potentially hazardous environments: Near electrical blasting caps, in a blasting area, in explosive atmospheres (inflammable gas, dust particles, metallic powders, grain powders, etc.).
•Turn off your radio while taking on fuel or while parked at gasoline service stations.
To avoid electromagnetic interference and/or compatibility conflicts
•Turn off your radio in any facility where posted notices instruct you to do so, hospitals or health care facilities (Pacemakers, Hearing Aids and Other Medical Devices) may be using equipment that is sensitive to external RF energy.
•Turn off your radio when on board an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

Protect your hearing:

• Use the lowest volume necessary to do your job.
• Turn up the volume only if you are in noisy surroundings.
• Turn down the volume before adding headset or earpiece.
• Limit the amount of time you use headsets or earpieces at high volume.
• When using the radio without a headset or earpiece, do not place the radio's speaker directly against your ear
• Use careful with the earphone maybe possible excessive sound pressure from earphones and headphones can cause hearing loss
Note: Exposure to loud noises from any source for extended periods of time may temporarily or permanently affect your hearing. The louder the radio's volume, the less time is required before your hearing could be affected. Hearing damage from loud noise is sometimes undetectable at first and can have a cumulative effect.

Avoid Burns

Antennas
•Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with the skin when the radio is in use, a minor burn can result.
Batteries (If appropriate)
•When the conductive material such as jewelry, keys or chains touch exposed terminals of the batteries, may complete an electrical circuit (short circuit the battery) and become hot to cause bodily injury such as burns. Exercise care in handling any battery, particularly when placing it inside a pocket, purse or other container with metal objects
••BATTERY WARNING: KEEP OUT OF REACH OF CHILDREN
•Store spare batteries securely
•If the battery compartment (if applicable) does not close securely, stop using the product and keep it away from children
•If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention
•Dispose of used batteries immediately and safely
Long transmission
•When the transceiver is used for long transmissions, the radiator and chassis will become hot.

Safety Operation

Forbid
•Do not use charger outdoors or in moist environments, use only in dry locations/conditions.
•Do not disassemble the charger, that may result in risk of electrical shock or fire.
•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

Cut along this line

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 FC RoHS

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E-mail:kam@retevis.com
Facebook:facebook.com/retevis

MADE IN CHINA

说明书要求

尺寸：120*160mm

印刷：黑白印刷

装订：胶黏订

纸张材质：双胶纸

本页无需印刷