# RETEVIS



# RT86A (US) Two Way Radio
# User Manual

# Contents

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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.

# USER MANUAL TWO WAY RADIO

Welcome to purchase the radio produced by our company. We believe that this radio will bring great convenience to your life and work. Adopting advanced technology, we hope that the quality and functionality of this product will satisfy you. It will provide you with convenient, efficient, and reliable two-way voice communication.

## User :
● Please read this manual carefully before using the device.
● Do not use the radio or charge its battery in environments that are combustible, explosive, or where the use of radio is prohibited (such as gas stations, coal gas stations, airports, etc.).
● Do not operate the radio without permission in government-
regulated areas where transmission is prohibited by law.
● Avoid exposing the radio to direct sunlight for long period or placing it near heating devices.
● Do not place the radio in dusty, damp, or splash-prone areas, or on unstable surfaces.
● If you detect any unusual odor or smoke emanating from the radio, immediately remove the battery pack and promptly contact our company or a local dealer.
● Maintenance of the radio should only be performed by professional technicians. Do not attempt to dismantle or repair it yourself.

## I.Out-of-box Check
Please open the package box before use and carefully inspect the main unit as well as the accessories listed in the following table. Should any item be missing or damaged during handling, kindly contact the delivery person or the dealer immediately.

**Package Includes**

| Item | Quantity |
|------|----------|
| Walkie-talkie | 1 |
| Antenna | 1 |
| Battery | 1 |
| Charging Base | 1 |
| Type-C char ging cable | 1 |
| Belt clip | 1 |
| Lanyard | 1 |
| User manual | 1 |

## II. Preparations
### Attention :
● **Do not overcharge the battery pack.**
If the battery pack has not been fully charged within the specified time (approximately 6.5 hours), please stop charging. Overcharging may cause the battery pack to overheat, emit smoke, explode, or catch fire suddenly.
● **Do not place the battery pack in a microwave or high-pressure container.**
The battery pack may overheat, emit smoke, explode, or catch fire suddenly.
● **Keep broken and leaking battery packs away from fire.**
If the battery pack leaks or emits a pungent odor, immediately remove it from flammable areas. Leaking electrolyte from the battery pack can easily ignite, potentially causing the battery pack to smoke or catch fire suddenly.
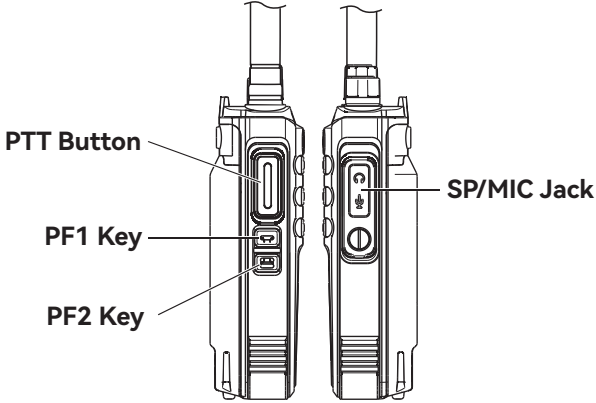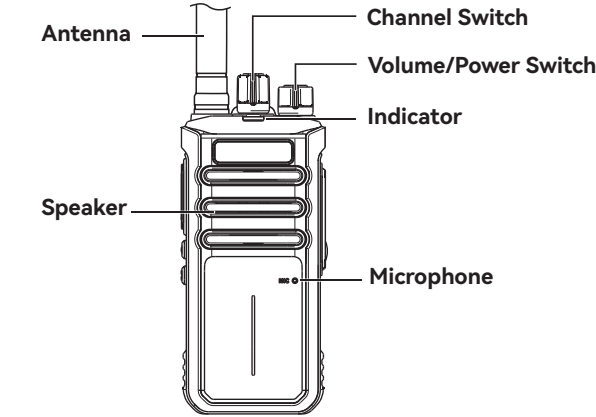● **Do not use abnormal battery packs.**
If the battery pack emits a pungent odor, appears discolored, is deformed, or behaves abnormally for any reason, remove the battery pack from the charger or operating device and do not use it.
● **Use the dedicated charger.**
The charger is specifically designed for this model of the radio, providing more , rational safe, and reliable charging for the radio's battery.

**Key Indicators**

Antenna

Channel Switch

Volume/Power Switch

Indicator

Speaker

Microphone

PTT Button

SP/MIC Jack

PF1 Key

PF2 Key
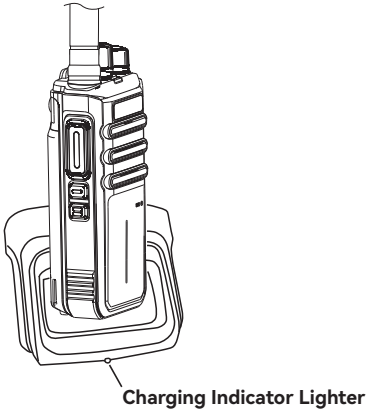
**Charging Instructions**
**Charging Mode:**
After turning off the radio, insert it into the charging slot of the charger. The charger will illuminate a redindicating the start of charging. When the battery is fully charged,thelight will turn green.(As shown in the diagram)

Charging Indicator Lighter

## Basic Operations and Functions

### Power On / Off
To turn on the power, rotate the volume control knob clockwise until a click sound is heard. To turn off the power, rotate the volume control knob counterclockwise until a click soun d is heard.

### Talking
Press and hold the PTT button , the red indicator light will illuminate, and you can speak into the microphone. The other party will hear your voice. Release the PTT button after speaking to receive the other party's message. The green indicator light will illuminate simultaneously when receiving.

### Volume Up/Down
Increase the volume by rotating the volume control knob clockwise.Decrease the volume by rotating the volume control knob counterclockwise.

### Channel Selection
To switch to the next channel,rotate the channel selector knob clockwise. To switch to the previous channel, rotate the channel selector knob counterclockwise.

### Low Battery Alert
When the voice prompt "Please Charge" is heard, accompanied by a flashing red light, it indicates that the battery voltage is below the operating threshold. Please charge the radio.

### Monitor Function On/Off
Briefly or long press the PF1/PF2 key assigned for monitoring to activate. This allows listening to the selected channel for transmissions. Silence is indicated by a "shushing"sound. Repeat the action to deactivate.

### VOX On/Off
Press the side button 1 + PTT button to turn on the device, and VOX will be quickly activated with a "beep" sound; repeat the operation and you will hear two "beep" sounds to turn off VOX.

### Channel Lock On/Off
Briefly or long press the PF1/PF2 key designated for channel lock. A single beep indicates activation, locking the channel. Repeat for deactivation, confirmed by two beeps.

### Scan Function On/Off
Briefly or long press the PF1/PF2 key programmed for scanning. A single beep initiates scanning, indicated by a flashing green light. The radio exits scanning upon receiving a signal. Repeat to deactivate, confirmed by two beeps.

### Alarm Function On/Off
Briefly or long press the PF1/PF2 key assigned for alarms to activate. Choose between local (device only) and remote (both transmitter and receiver) alarms via programming. Press PTT to cancel.

### Transmit TOT
TOT prevents extended transmissions on a single channel, safeguarding against radio damage due to continuous transmission. Upon exceeding the preset TOT limit, the radio stops transmitting and emits an alert tone. Release the PTT switch to silence the tone and resume receive mode.

### Power Level Switching Activation
Briefly press or hold down the PF1/PF2 button configured for power level switching to activate the function. A single "beep" indicates switching to low power, two "beeps" indicate switching to medium power, and three "beeps" indicate switching to high power.

### Microphone Gain Adjustment
The microphone gain can be adjusted via software to enhance or reduce the sensitivity of the radio's microphone. A higher value results in greater sensitivity.

### One-key Frequency Pairing
(Note: Compatible with RT86A and other radios without anti-cloning features. Enables frequency matching between radios with different frequencies. One channel can be matched at a time without the need for a PC for seamless communication.)
Testing procedure with antennas, maintaining a distance of 0.5m to 1.5m, with a maximum test duration of 15 seconds:
1.Enter One-key decoding mode: With the radio turned off, press and hold the PTT button while powering on. After 3 seconds, a "beep-beep-beep" sound will be heard accompanied by alternating red and green light flashes, announcing the current channel. Release the PTT button to proceed.
2. Transmitter setup: Power on the transmitter and rotate the channel switch to the target channel (covering the desired frequency). Press and hold the PTT button to activate this function . Transmit to the test receiver. When the test receiver's red light turns green, it indicates successful transmission frequency testing and saving. The green light will remain for a period before a single "beep" confirms successful saving. After completion, the transmitter and receiver can communicate seamlessly.

### Easy Pairing (Antenna installed, test at distance of 0.5m-1.5m)
(Note: Compatible RT86A with identical RT86A models. When frequencies or CTCSS/DCS differ, all channel frequencies and CTCSS/DCS can be copied, enabling seamless communication without the need for PC programming. The transmitter's side key functions will not be copied by default; However,side key functions can also be optionally copied via software setting.)

1.To enter the wireless pairing receive mode(receiver): switch to channel 1 ( power on or power off both ok), turn off the radio,press and hold side key 1 while turning on the radio. Continue holding for approximately 1 second. When the green light begins to flash and three "beeps" are heard, the receiver is in the receive mode.

2.To enter the wireless pairing transmit mode(transmitter): switch to channel 2 ( power on or power off both ok), turn off the radio,press and hold side key 1 while turning on the radio.. Continue holding for approximately 1 second. When the red light begins to flash and three "beeps" are heard, the transmitter is in the transmit mode.

3.Press the transmitter's PTT button once. The red light will flash, indicating data transmission.

4.The receiver's red and green lights will alternate, indicating data reception. Once the receiver has completed receiving the data, it will automatically restart.

5.The receiver's automatic restart signifies completion of the pairing process. Manually turn off the transmitter and then turn it on again to exit the wireless pairing transmit mode. The wireless pairing is now complete, allowing communication on the same channel.

**How can RT86A talk with RT86?**

Long press the [PF2] key(the bottom side key) of RT86A to turn on the radio and you will hear a "beep" sound, radio will switch to RT86 frequency to talk with RT86 directly. While maintaining the RT86 frequency, each startup will make a different "beep" sound from the RT86A startup to distinguish it; Press the [PF2] key of RT86A again to turn on the radio and you will hear two "beeps" to switch to RT86A frequency. At the same time, each startup will restore the original RT86A startup sound.

**One-key Enable/Disable CTCSS/DCS**

After turning off the radio, press and hold side key 2 + PTT to power on. A single "beep" indicates that the sub-tone for all channels has been disabled. Repeat this action to hear two "beeps", enabling the sub-tone for all channels again. (These are temporary actions; the original factory settings for sub-tone will be retained upon software reading.)

**One-key Group Call Enable/Disablet**

Long-press the PF1/PF2 button configured for group calls to activate the one-key group call function. Once enabled, all radios will be switched to the group call channel for transmission and reception, regardless of their original channel settings. The group call channel can be selected via the programming software's optional features. The software also allows setting the recovery time and PTT response (when enabled, releasing the button after initiating the group call allows continued communication via the PTT button until the recovery time elapses). Release the PF1/PF2 button to exit the one-touch group call mode.

**CTCSS/DCS**

The frequency programming software can be used to set CTCSS (sub-tone) or DCS(digital sub-tone) signaling on the radio's channels. When a channel is configured with a CTCSS or DCS, squelch will only open upon receiving a signal with the matching CTCSS or DCS. If different types of CTCSS/DCS encoding are used within the same channel, only the green light will illuminate, indicating that squelch is not open. CTCSS offers 50 groups, whereas DCS provides 105 groups for both forward and reverse directions, totaling 210 groups in total. (The software also allows editing of non-standard CTCSS/DCS settings for normal use.)

## CTCSS/DCS List

| CTCSS CHART（Hz） | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Number | Frequency | Number | Frequency | Number | Frequency | Number | Frequency | Number | Frequency |
| 1 | 67.0 | 2 | 69.3 | 3 | 71.9 | 4 | 74.4 | 5 | 77.0 |
| 6 | 79.7 | 7 | 82.5 | 8 | 85.4 | 9 | 88.5 | 10 | 91.5 |
| 11 | 94.8 | 12 | 97.4 | 13 | 100.0 | 14 | 103.5 | 15 | 107.2 |
| 16 | 110.9 | 17 | 114.8 | 18 | 118.8 | 19 | 123.0 | 20 | 127.3 |
| 21 | 131.8 | 22 | 136.5 | 23 | 141.3 | 24 | 146.2 | 25 | 151.4 |
| 26 | 156.7 | 27 | 159.8 | 28 | 162.2 | 29 | 165.5 | 30 | 167.9 |
| 31 | 171.3 | 32 | 173.8 | 33 | 177.3 | 34 | 179.9 | 35 | 183.5 |
| 36 | 186.2 | 37 | 189.9 | 38 | 192.8 | 39 | 196.6 | 40 | 199.5 |
| 41 | 203.5 | 42 | 206.5 | 43 | 210.7 | 44 | 218.1 | 45 | 225.7 |
| 46 | 229.1 | 47 | 233.6 | 48 | 241.8 | 49 | 250.3 | 50 | 254.1 |

| DCS CODELIST | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Number | DCS–N | Number | DCS–N | Number | DCS–N | Number | DCS–N | Number | DCS–N |
| 1 | D023N | 2 | D025N | 3 | D026N | 4 | D031N | 5 | D032N |
| 6 | D036N | 7 | D043N | 8 | D047N | 9 | D051N | 10 | D053N |
| 11 | D054N | 12 | D065N | 13 | D071N | 14 | D072N | 15 | D073N |
| 16 | D074N | 17 | D114N | 18 | D115N | 19 | D116N | 20 | D122N |
| 21 | D125N | 22 | D131N | 23 | D132N | 24 | D134N | 25 | D143N |
| 26 | D145N | 27 | D152N | 28 | D155N | 29 | D156N | 30 | D162N |
| 31 | D165N | 32 | D172N | 33 | D174N | 34 | D205N | 35 | D212N |
| 36 | D223N | 37 | D225N | 38 | D226N | 39 | D243N | 40 | D244N |
| 41 | D245N | 42 | D246N | 43 | D251N | 44 | D252N | 45 | D255N |
| 46 | D261N | 47 | D263N | 48 | D265N | 49 | D266N | 50 | D271N |
| 51 | D274N | 52 | D306N | 53 | D311N | 54 | D315N | 55 | D325N |
| 56 | D331N | 57 | D332N | 58 | D343N | 59 | D346N | 60 | D351N |
| 61 | D356N | 62 | D364N | 63 | D365N | 64 | D371N | 65 | D411N |
| 66 | D412N | 67 | D413N | 68 | D423N | 69 | D431N | 70 | D432N |
| 71 | D445N | 72 | D446N | 73 | D452N | 74 | D454N | 75 | D455N |
| 76 | D462N | 77 | D464N | 78 | D465N | 79 | D466N | 80 | D503N |
| 81 | D506N | 82 | D516N | 83 | D523N | 84 | D526N | 85 | D532N |
| 86 | D546N | 87 | D565N | 88 | D606N | 89 | D612N | 90 | D624N |
| 91 | D627N | 92 | D631N | 93 | D632N | 94 | D645N | 95 | D654N |
| 96 | D662N | 97 | D664N | 98 | D703N | 99 | D712N | 100 | D723N |
| 101 | D731N | 102 | D732N | 103 | D734N | 104 | D743N | 105 | D754N |
| 106 | D023I | 107 | D025I | 108 | D026I | 109 | D031I | 110 | D032I |
| 111 | D036I | 112 | D043I | 113 | D047I | 114 | D051I | 115 | D053I |
| 116 | D054I | 117 | D065I | 118 | D071I | 119 | D072I | 120 | D073I |
| 121 | D074I | 122 | D114I | 123 | D115I | 124 | D116I | 125 | D122I |
| 126 | D125I | 127 | D131I | 128 | D132I | 129 | D134I | 130 | D143I |
| 131 | D145I | 132 | D152I | 133 | D155I | 134 | D156I | 135 | D162I |
| 136 | D165I | 137 | D172I | 138 | D174I | 139 | D205I | 140 | D212I |
| 141 | D223I | 142 | D225I | 143 | D226I | 144 | D243I | 145 | D244I |
| 146 | D245I | 147 | D246I | 148 | D251I | 149 | D252I | 150 | D255I |
| 151 | D261I | 152 | D263I | 153 | D265I | 154 | D266I | 155 | D271I |
| 156 | D274I | 157 | D306I | 158 | D311I | 159 | D315I | 160 | D325I |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 161 | D331I | 162 | D332I | 163 | D343I | 164 | D346I | 165 | D351I |
| 166 | D356I | 167 | D364I | 168 | D365I | 169 | D371I | 170 | D411I |
| 171 | D412I | 172 | D413I | 173 | D423I | 174 | D431I | 175 | D432I |
| 176 | D445I | 177 | D446I | 178 | D452I | 179 | D454I | 180 | D455I |
| 181 | D462I | 182 | D464I | 183 | D465I | 184 | D466I | 185 | D503I |
| 186 | D506I | 187 | D516I | 188 | D523I | 189 | D526I | 190 | D532I |
| 191 | D546I | 192 | D565I | 193 | D606I | 194 | D612I | 195 | D624I |
| 196 | D627I | 197 | D631I | 198 | D632I | 199 | D645I | 200 | D654I |
| 201 | D662I | 202 | D664I | 203 | D703I | 204 | D712I | 205 | D723I |
| 206 | D731I | 207 | D732I | 208 | D734I | 209 | D743I | 210 | D754I |

## Frequency Table

| Channel Number | TX Frequency | RX Frequency | CTCSS/DCS | Max Input power |
|:---:|:---:|:---:|:---:|:---:|
| 1 | 462.5625 | 462.5625 | 67.0 | 5W |
| 2 | 462.5875 | 462.5875 | 118.8 | 5W |
| 3 | 462.6125 | 462.6125 | 127.3 | 5W |
| 4 | 462.6375 | 462.6375 | 131.8 | 5W |
| 5 | 462.6625 | 462.6625 | 136.5 | 5W |
| 6 | 462.6875 | 462.6875 | 141.3 | 5W |
| 7 | 462.7125 | 462.7125 | 146.2 | 5W |
| 8 | 467.5625 | 467.5625 | D243N | 0.5W |
| 9 | 467.5875 | 467.5875 | D032N | 0.5W |
| 10 | 467.6125 | 467.6125 | D047N | 0.5W |
| 11 | 467.6375 | 467.6375 | D051N | 0.5W |
| 12 | 467.6625 | 467.6625 | D053N | 0.5W |
| 13 | 467.6875 | 467.6875 | D065N | 0.5W |
| 14 | 467.7125 | 467.7125 | D116N | 0.5W |
| 15 | 462.5500 | 462.5500 | 123.0 | 5W |
| 16 | 462.5750 | 462.5750 | D743I | 5W |
| 17 | 462.6000 | 462.6000 | D332I | 5W |
| 18 | 462.6250 | 462.6250 | 127.3 | 5W |
| 19 | 462.6500 | 462.6500 | D243I | 5W |
| 20 | 462.6750 | 462.6750 | D606N | 5W |
| 21 | 462.7000 | 462.7000 | D731I | 5W |
| 22 | 462.7250 | 462.7250 | 136.5 | 5W |
| 23 | 467.5500 | 462.5500 | / | 5W |
| 24 | 467.5750 | 462.5750 | / | 5W |
| 25 | 467.6000 | 462.6000 | / | 5W |
| 26 | 467.6250 | 462.6250 | / | 5W |
| 27 | 467.6500 | 462.6500 | / | 5W |
| 28 | 467.6750 | 462.6750 | / | 5W |
| 29 | 467.7000 | 462.7000 | / | 5W |
| 30 | 467.7250 | 462.7250 | / | 5W |

# Specification

| | |
|---|---|
| Frequency Range | GMRS |
| Number of Channels | 30 |
| Audio Distortion | <5% |
| Frequency Stability | ±2.5ppm |
| MAX Frequency Deviation | ≤2.5KHz |
| Modulation Mode | FM |
| Reference Sensitivity | ≤0.25uV/≤0.3uV |
| Squelch Threshold | ≤0.2uV/≤0.25uV |
| Adjacent Channel Selectivity | ≥65dB |
| Spurious Suppression | ≥55dB |
| Current | ≤2.5A |
| Operating Voltage | 7.4V DC |

## RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE

**Before using this device, please read this guide which contains important operating instructions for safe usage, control information and operational instructions for compliance with RF Energy Exposure limits in applicable national and international standards.**
**User' instructions should accompany the device when transferred to other users.**

### 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.

### Radio License

This two-way radio is a GMRS station. A valid individual license is required to operate a GMRS station. To obtain an individual license, an applicant must be eligible and follow the applicable rules and procedures established by FCC. The applicant must pay the required application and regulatory fees. Each individual license in the GMRS will normally have a term of ten years from the date of grant or renewal, and may be renewed pursuant to the procedures of FCC. To obtain a GMRS operator license, you need FCC Form 605 & 159, we suggest visiting the FCC website at https://www.fcc.gov/wireless/support/fcc-form-605, which includes necessary instructions. More questions about the license application, please contact the FCC at 1-888-225-5322 or go to the FCC's website: http://www.fcc.gov.

Note: According to FCC rules, any individual who holds an individual GMRS license may allow his or her immediate family members to operate his or her GMRS station or stations. Immediate family members are the licensee's spouse, children, grandchildren, stepchildren, parents, grandparents, stepparents, brothers, sisters, aunts, uncles, nieces, nephews, and in-laws.

### FCC

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.
(2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device. 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.

### Disposal

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that all electrical and electronic products, batteries, or accumulators 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 and rules in your area.lug

### RF Safety

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. 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/
Transmit no more than the rated duty factor 50% of the time. 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. For users who wish to further reduce their exposure, some effective measures to reduce RF exposure include:
 • Reduce the amount of time spent using your wireless device.
 • Use a speakerphone, earpiece, headset, or other hands-free accessory to reduce proximity to the head (and thus head exposure). While wired earpieces may conduct some energy to the head and wireless earpieces also emit a small amount of RF energy, both wired and wireless earpieces remove the greatest source of RF energy (handheld device) from proximity to the head and thus can greatly reduce total exposure to the head.
 • Increase the distance between wireless devices and your body.

This radio is designed for and classified as "General population/uncontrolled use". General population/uncontrolled environments are defined as locations where there is exposure of individuals who have no knowledge or control of RF exposure level.

### Hand-held Mode

To control your exposure and ensure compliance with the controlled environment exposure limits, always adhere to the following procedure:
-To receive calls, release the PTT button.
-To transmit (talk), press the Push-to-Talk (PTT) button in front of the face.
-Hold the radio in a vertical position with the microphone (and other parts of the radio including the antenna) at least one inch (2.5 centimeters) away from the nose or lips.

## Electromagnetic Interference/Compatibility

Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility. 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, such as hospitals or healthcare facilities.

Persons with pacemakers, implantable cardioverter defibrillators (ICDs) or other active implantable medical devices should:
 • 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 there is 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 the 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: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

## Turn off your radio in the following conditions:

Turn off your radio prior to entering any area with a potentially hazardous or explosive atmosphere. Only radio types that are especially qualified should be used in such areas as "Intrinsically Safe".
Note: the areas with potentially explosive atmosphere referred to above include blasting caps, blasting areas, inflammable gas, dust particles, metallic powders, grain powders, fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles (such as grain, dust or metal powders) and any other area where you would normally be advised to turn off your vehicle engine. Areas with potentially explosive atmospheres are often – but not always posted.

## Use of Communication Devices While Driving

 • Always check the laws and regulations on the use of radios in the areas where you drive. Use of Communication Devices, for example, mobile radio, may not be allowed.
 • Give full attention to driving and to the road.
 • Use hands-free operation, if available.
 • Pull off the road and park before making or answering a call, if driving conditions or regulations so require.
 • Do not place a portable radio in the area over an air bag or in the airbag deployment area. The radio may be propelled with great force and cause serious injury to occupants of the vehicle when the airbag inflates.

## Protect your hearing

 • Use the lowest volume necessary to do your job. Turn up the volume only if you are in noisy surroundings.
 • 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 carefully with the earphone maybe possible excessive sound pressure from earphones and headphones can cause hearing loss.
CAUTION: 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.

## Batteries Safety

 • WARNING: KEEP NEW OR OLD USED BATTERIES OUT OF REACH OF CHILDREN.

 • Since batteries are sensitive to high temperatures when storing them, keep them in a cool and dry place. The recommended temperature should be between +10 ℃and +25℃and never exceed +30℃. Batteries should therefore not be stored next to radiators or boilers nor in direct sunlight. Extremes of humidity (below 35% and above 95% relative humidity for sustained periods should be avoided since they are detrimental to both batteries and packing. Although the storage life of batteries at room temperature is good, storage is improved at lower temperatures provided special precautions are taken. Also, accelerated warming is harmful.

 • Turn off your radio before removing or installing a battery. Store spare batteries securely. Dispose of used batteries immediately and safely.
 • The battery supply terminals are not to be short-circuit.
 • Do not replace the battery in any area labeled "Hazardous Atmosphere". Any sparks created in a potentially explosive atmosphere can cause explosion or fire.
 • When the conductive material such as jewelry, keys or chains touches 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;
 • Dirty battery contacts need to be wiped with clean dry cloth, both on the battery and in the appliance.
 • Batteries should be removed from the appliance when not being used for long periods of time (months). The batteries should be enclosed in special protective packaging (such as sealed plastic bags or variants) which should be retained to protect them from condensation during the time they are warming to ambient temperature.
 • Exhausted batteries are to be removed from the equipment.
 • Do not dismantle, open or shred batteries. Batteries should be dismantled only by trained people.
 • Batteries shall be charged at 10℃~40℃ environment temperature specified. If the environment temperature is lower than 0℃, the charge shall be prohibited.
 • Rechargeable batteries are only to be charged by adults or by children at least 8 years old under adult supervision.

WARINING:CHOKING HAZARD–Small Parts. Not suitable for children under 3 years old.

The plug of the adapter is considered a disconnect device. The socket–outlet shall be installed near the equipment and shall be easily accessible.

## Authorized Accessories List
Power adapter：C9034
· Contact Retevis for assistance regarding repairs and service.
· For a list of Retevis-approved accessories for your radio model, visit the website: http://www.Retevis.com

# **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.

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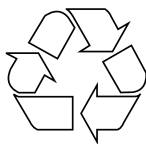
**Shenzhen Retevis Technology Co.,Ltd.**

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Made in China

说明书要求:
尺寸:145*210
样式:装订
印刷:封面封底彩色+内容黑白
纸张:封面封底铜版纸+内容双胶纸

此面不用印刷