RECYCLABLE PACKAGING


XA30

# TWO WAY RADIO

# USER'S MANUAL

# USER MANUAL

## TWO WAY RADIO

Dear Users:

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 Instructions:**

- 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 |
| 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.

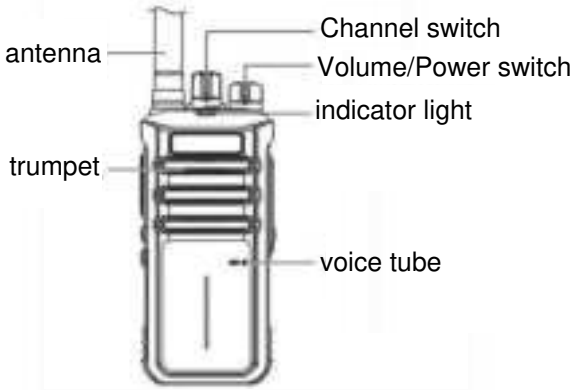
- **Use the dedicated charger.**

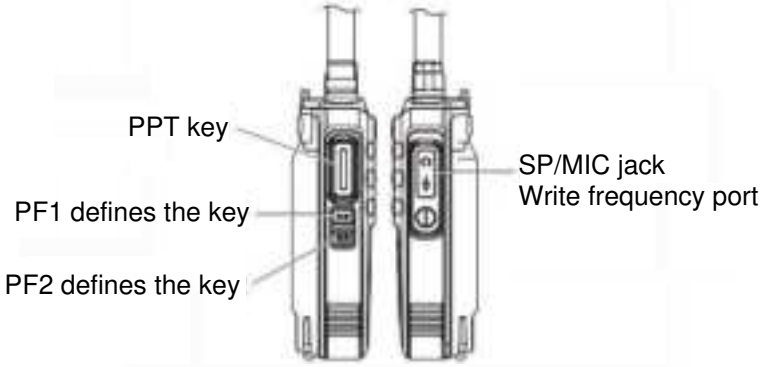
  The charger is specifically designed for this model of the radio, providing more scientific, rational safe, and reliable charging for the radio's battery.

-------$95.1743 Minor GMRS operators.

Operators under the age of 18 will not be held personally responsible, pursuant to $ 95.343,for improper operation of a GMRS repeater or base station. The holder of the individual license under which the minor operates is solely responsible for any improper operation that occurs while an individual under the age of 18 is operating the station.

## Key Indicators




## Charging Instructions

Charging Mode:
After turning off the radio, insert it into the charging slot of the charger. The charger will illuminate a red indicating the start of charging.When the battery is fully charged,the light 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 sound 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.

**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

(Note: Compatible XA30 with identical XA30 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), press and hold PTT button 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), press and hold PTT button 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 pairingis now complete. allowing communication on the same channel. Long press the (PF21 key(the bottom side key) to turn on the radio and you will hear a "beep"sound to switch to XA30 frequeney to talk with XA30 directly. While maintaining the XA30 frequency, each startup will make a different "beep"sound from the RT86A startup to distinguish it: Press the [ PF2] key again to turn on the radio and you will hear two "beeps"to switchto XA30 frequency. At the same time, each startup will restore the original XA30 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/Disable**

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.)

| 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 | D155N | 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 |

**Frequency List**

| Channel | RX Frequency | TX Frequency | Max Power Output | Channel | RX Frequency | TX Frequency | Max Power Output |
|---|---|---|---|---|---|---|---|
| 1 | 462.5625 | 462.5625 | 4.35W/0.5W | 16 | 462.5750 | 462.5750 | 4.35W/0.5W |
| 2 | 462.5875 | 462.5875 | 4.35W/0.5W | 17 | 462.6000 | 462.6000 | 4.35W/0.5W |
| 3 | 462.6125 | 462.6125 | 4.35W/0.5W | 18 | 462.6250 | 462.6250 | 4.35W/0.5W |
| 4 | 462.6375 | 462.6375 | 4.35W/0.5W | 19 | 462.6500 | 462.6500 | 4.35W/0.5W |
| 5 | 462.6625 | 462.6625 | 4.35W/0.5W | 20 | 462.6750 | 462.6750 | 4.35W/0.5W |
| 6 | 462.6875 | 462.6875 | 4.35W/0.5W | 21 | 462.7000 | 462.7000 | 4.35W/0.5W |
| 7 | 462.7125 | 462.7125 | 4.35W/0.5W | 22 | 462.7250 | 462.7250 | 4.35W/0.5W |
| 8 | 467.5625 | 462.5625 | 0.5W | 23 | 467.5500 | 467.5500 | 4.35W/0.5W |
| 9 | 467.5875 | 467.5875 | 0.5W | 24 | 467.5750 | 467.5750 | 4.35W/0.5W |
| 10 | 467.6125 | 467.6125 | 0.5W | 25 | 467.6000 | 467.6000 | 4.35W/0.5W |
| 11 | 467.6375 | 467.6375 | 0.5W | 26 | 467.6250 | 467.6250 | 4.35W/0.5W |
| 12 | 467.6625 | 467.6625 | 0.5W | 27 | 467.6500 | 467.6500 | 4.35W/0.5W |
| 13 | 467.6875 | 467.6875 | 0.5W | 28 | 467.6750 | 467.6750 | 4.35W/0.5W |
| 14 | 467.7125 | 467.7125 | 0.5W | 29 | 467.7000 | 467.7000 | 4.35W/0.5W |
| 15 | 462.5500 | 462.5500 | 4.35W/0.5W | 30 | 467.7250 | 467.7250 | 4.35W/0.5W |

For Antenna:

Accord to that antenna length in different regions, only below type antenna was authorized use in the product.

Antenna Model:XA30

Antenna Type: Helical

Antenna Gain:2.15dBi

## Specification

| | |
|---|---|
| Frequency Range | GMRS |
| Number of Channels | 30 |
| Channel Bandwidth | 12.5kHz/25kHz |
| 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 |

The Radio is pre-configured with 8 GMRS repeater channels: 467.5500, 467.5750, 467.6000, 467.6250, 467.6500, 467.6750, 467.7000 and 467.7250MHz. In basic terms, a repeater is a device that is used to increase the range of two way radios. Repeaters will receive a transmission on one frequency and simultaneously rebroadcast that transmission on different frequency. Repeaters are often set up in a fixed location and connected to an antenna that is mounted at a higher elevation to provide better range than is normally available with radio-to-radio(simplex) communications. Using GMRS repeaters can significantly increase the range of your radio, but just tuning to one of the repeater channels isn't necessarily going to work. You first have to be sure there is a repeater listening on that channel's frequency, and you have to be within range of that repeater. It is important to keep in mind that a GMRS repeater is not necessarily intended for public use. They are owned by individuals and are sometimes intended for private use or require permission to use. Before connecting to a GMRS repeater, be sure that you have permission or that the owner is fine with public use. The description on the my GMRS website usually indicates if permission is required and provides a way to get in touch with the owner.

**1. 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.**

## 2. 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.

## 3 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.

## 3.1 FCC

3.1.1 EN：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);**

3.1.2 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.

3.2 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.

## 6.1 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.

## 7.1 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.

## 7.3

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.

## 7.4 Hand-held Mode

To control your exposure and ensure compliance with the General Population/Uncontrolled environment exposure limits always adhere to the following procedures.

Guidelines:

.Do not remove the RF Exposure Label from the device.

.User awareness instructions should accompany 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, release the PTT button. Transmitting 50 % of the time,
or less, is important because this radio generates measurable RF energy exposure only when
transmitting (in terms of measuring for standards compliance).
.Hold the radio in a vertical position in front of face with the microphone (and the other parts of the
radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the
proper distance is important because RF exposures decrease with distance from the antenna.
Antenna should be kept away from eyes.
.When worn on the body, always place the radio in approved clip, holder, holster, case, or body
harness for this product. Use of non-approved accessories may result in exposure levels, which
exceed the General Population/Uncontrolled environment RF exposure limits.
·Use only manufacturer's name approved supplied or replacement antennas, batteries, and
accessories. Use of non-manufacturer-name approved antennas, batteries, and accessories may
exceed the FCC and IC RF exposure guidelines.
For a list approved accessories please consult your local dealer for information.
Contrôlez votre exposition au risque et assurez - vous de respecter les exigences générales
Les limites d'exposition de la population / de l'environnement non contrôlé sont toujours conformes aux procédures suivantes.
Lignes directrices:
Ne retirez pas l'étiquette d'exposition RF de l'appareil.
Lorsque l'appareil est transféré à un autre utilisateur, il doit être accompagné d'instructions de sensibilisation de l'utilisateur.
N'utilisez pas cet appareil s'il ne répond pas aux exigences opérationnelles décrites dans cet article.
Instructions de fonctionnement:
Le temps de transmission ne dépasse pas 50% du cycle nominal. Pour transférer (appel), appuyez sur
Appuyez sur le bouton Push to talk (PTT). Pour répondre à un appel, relâchez le bouton PTT. Transmission 50% du temps,
Parce que cette radio ne produira une exposition mesurable à l'énergie RF que si:
Transmission (en termes de mesure de la conformité aux normes).

. placez la radio verticalement devant vous avec le microphone (et le reste du microphone)

Radio, antenne incluse) à au moins un pouce (2,5 cm) du nez. Mettez la radio allumée

Une distance appropriée est importante car l'exposition aux RF diminue avec la distance de l'antenne.

Les antennes doivent être éloignées des yeux.

. Lorsque porté sur le corps, assurez - vous de placer la radio dans un clip, un support, un étui, une boîte ou un corps approuvé

Ceintures de sécurité pour ce produit. L'utilisation d'accessoires non approuvés peut entraîner des niveaux d'exposition

Dépassement des limites d'exposition aux RF pour la population générale / environnement non contrôlé.

· utiliser uniquement des antennes, des batteries et des piles de rechange fournies ou de remplacement approuvées par le nom du fabricant

Accessoires. Utilisation d'antennes, de batteries et d'accessoires non approuvés par le nom du fabricant possible

Dépasse les directives d'exposition aux RF de la FCC et de l'IC.
Consultez votre revendeur local pour obtenir des informations sur la liste des accessoires approuvés.

## 8.1 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.

## 8.2

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.

## 9.1

**WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.**

## 10.1 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.

## 10.2 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.

## 11.1 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.

## 12.1 Batteries Safety

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

## 12.2

• 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.

## 12.3

• 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.

•Rechargeable batteries are only to be charged by adults or by children at least 8 years old under adult supervision.

## 13.1

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


## 14.1

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

## 15.1 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