



RECYCLED PACKAGING



Shenzhen Retevis Technology Co.,Ltd.
7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli
6th Road, Jihua Street, Longgang District, Shenzhen, China
Web: www.retevis.com
E-mail: kam@retevis.com
Facebook: facebook.com/retevis

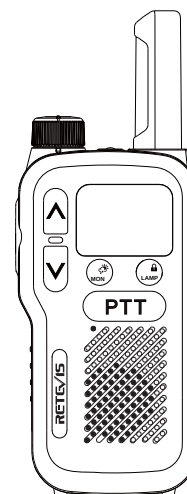


MADE IN CHINA

RETEVIS

USER'S MANUAL

RB18
Two Way Radio



US

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

THANK YOU

We are grateful for your choice of our transceiver. We believe that this easy-to-use transceiver will provide dependable and cost-effective communications for you. Our professional two-way radios incorporate the latest in advanced technology and craft. So you will be pleased with the quality and features of our products. Please read this manual carefully to ensure you know how to properly operate the radio before use.

PRECAUTIONS

- 1. Refer service to qualified technicians only.
- 2. Do not disassemble or modify the transceiver for any reason.
- 3. Do not expose the transceiver under direct sunlight long time or to extremely hot condition.
- 4. Do not place the transceiver on the unstable surface.
- 5. Keep the transceiver out of dust, moisture,and water.
- 6. Do not operate the transceiver or charge the battery pack unde explosive conditions.

RETEVIS

CONTENT

MORE OPTIONAL ACCESSORIES OF RETEVIS----- 01

UNPACKING AND CHECKING EQUIPMENTS ----- 02

SUPPLIED ACCESSORIES ----- 02

CHARGING THE LI-ION BATTERY PACK----- 03

JUST SEE THE FOLLOWING INSTRUCTIONS ----- 03

INSTALLING/REMOVING THE BATTERY PACK ----- 03

INSTALLING BELT CLIP ----- 04

INSTALLING THE (OPTIONAL) SPEAKER/MICROPHONE----- 04

Getting Familiar ----- 04

OPERATION----- 06

VOLUME CONTROL ----- 06

SELECTING THE CHANNEL ----- 06

TRANSMITTING----- 07

ADDITIONAL FUNCTIONS ----- 07

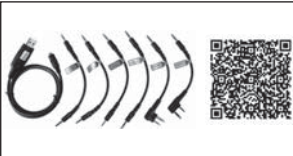
SPECIFICATIONS ----- 10

TROUBLESHOOTING GUIDE ----- 12

WARNINGS ----- 16

GUARANTEE CARD ----- 25

MORE OPTIONAL ACCESSORIES OF RETEVIS



6 in 1 programming cable kit



Acoustic tube headset



Speaker microphone



Programming cable



Throat mic

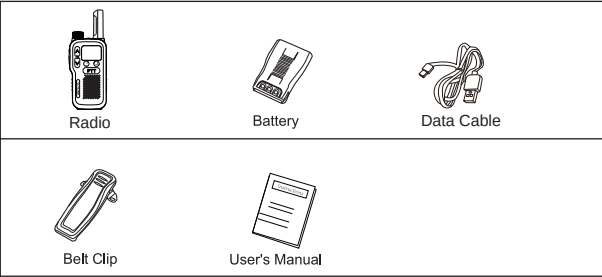
Note:
For more information, Please visit our website: www.retevis.com

UNPACKING AND CHECKING EQUIPMENTS

Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, please contact the dealers immediately.

SUPPLIED ACCESSORIES

Item Name	Quantity
Radio	1
Battery	1
Data Cable	1
Belt Clip	1
User's Manual	1



CHARGING THE LI-ION BATTERY PACK

Please charge the new battery pack before using it. The new or stored (more than two months) battery pack, which can not reach its full capacity for the first charging. After 2 or 3 times charging and discharging, it can reach full charge.

JUST SEE THE FOLLOWING INSTRUCTIONS

1. Plug the adapter into an electric socket.
2. Insert the connector of data cable into the port of battery pack.
3. Ensure that the port connect with connector of data cable properly, while the charging is taking place, the light will glow red.
4. After 3 hours charging, the led indicator will light green which means the full charge. Now remove the connector of data cable from battery pack.

Note:

Do not recharge the battery pack if it is fully charged. Doing so may cause the life of the battery pack to shorten or the battery pack may be damaged

INSTALLING/REMOVING THE BATTERY PACK

The usage time of JL-11 Battery Pack is about 8 hours, which is based upon 5% transmit/5% receive/90% standby (standard duty cycle). See following images:

Caution:

1. Do not short-circuit the terminals of the battery or throw the battery into the fire.
2. Do not disassemble the battery pack yourself.

INSTALLING BELT CLIP

The belt clip align to slots on back of battery pack and fixed with screws.

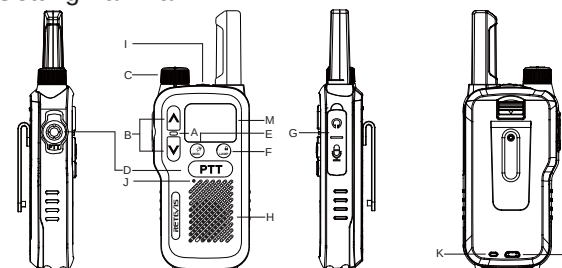
INSTALLING THE (OPTIONAL) SPEAKER/MICROPHONE

Insert the speaker/microphone plugs into the speaker/microphone jack of the transceiver.

Note:

The transceiver is not fully water resistant when using speaker/microphone.

Getting Familiar

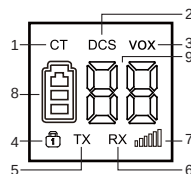


- A. Led indicator --- The Led indicator lights continuously red when transmitting. And lights green when in reception condition.
- B. Channel Switch --- short press the channel to increase, long-press the channel to switch up quickly; at the same

RETE/IS

- time, long-press UP+DOWN to enter scan mode
- C. Power Switch/Volume Control.**
- D. PTT Button** --- Press PTT+DOWN key to turn on, change Chinese/English prompt. Press PTT+UP key to transmit repeater to activate the audio DTMF(1750HZ、 1450HZ、 2100HZ) The factory default is 1750HZ, others can be changed by programming software.
- E. Monitor/Noaa Button** --- Short press the NOAA weather on or off, long-press to open the monitor, release to cancel the monitor.
- F. Torch/Lock Button** --- Short press the flashlight on or off, long-press to lock or unlock the keyboard.
- G. Speaker/Microphone Jacks**
- H. Speaker**
- I. Led Torch**
- J. Mic hole**
- K. Led indicator of battery pack**
- L. Battery pack charging port (5 pin)**
- M. Screen area**-----Display operate information

LED screen display define



- 1. CT analog CTCSS:** it means that the current channel is

RETE/IS

- receiving and transmitting at CTCSS mode.
- 2. DCS digital CDCSS:** it means that the current channel is receiving and transmitting at CDCSS mode.
- 3. VOX function:** it means that the VOX turn on.
- 4. Key lock:** it means that keyboard is lock and don't change up/down operation, except monitor and PTT key.
- 5. TX:** it means that radio is in the transmitting state and the transmitting and receiving intensity meter is lit.
- 6. RX:** it means that radio is in the receiving state and the transmitting and receiving indicator is lit at same time.
- 7. Transmitting and receiving indicator.**
- 8. Power and charge indicator:** it means current battery level. The battery level jumps back and forth from 1 to 3 in the charging state(Not displayed during shutdown).
- 9. Channel display:** display the current channel number.
- Note:** the radio enters the power saving mode after 10s of standby, the screen does not light in this mode and the receiving green light will blink at this time.

OPERATION

SWITCHING POWER ON/OFF

Turn the power switch/volume control clockwise. You will hear a beep and speech, indicating the transceiver is ON.

VOLUME CONTROL

Hold Monitor button down to listen to audio level while rotating the Power switch/Volume control. Rotate clockwise to increase and counter-clockwise to decrease volume.

SELECTING THE CHANNEL

In the standby mode, press UP/DOWN key, step up or down to select the channel. Long-press UP/DOWN to quickly switch

RETE/IS

channels up or down. The screen displays the current channel number, when the voice prompt function is turned on, the corresponding channel is broadcasted.

TRANSMITTING

To ensure the best receiving volume, please keep the distance between the microphone and the mouth from 2.5cm to 5cm when transmitting.

Transmitting call: change the channel and press PTT key, the radio is in the transmitting state, the red indicator light is always on and the TX icon is displayed. Then speak into the microphone in a normal tone.

Receiving call: after releasing PTT key, a beep will sound, the radio is receivable mode. When receiving a call, the green indicator light is always on and the RX icon is displayed.

ADDITIONAL FUNCTIONS

SCAN

In the standby mode, press UP+DOWN to enter scan function, the green indicator light is blink quickly, the radio scans between the added channels. When a valid voice signal is scanned, it automatically stays in this state until the signal disappears. Press any key to exit scan mode.

CPS programming path: Edit- Channel edit- Scan add (Option: Yes /No). Select the channel you want to add and set to Edit- scan switch (Option: On/Off), set to On.

MONITOR

In the standby mode, long-press MONI key to open monitor function, release to exit the MONI mode.

07

RETE/IS

KEYBOARD LOCK

Press and hold the LAMP / LOCK button to lock or release the up or down button for channel selection. When the channel is locked, the LOCK icon is displayed.

Other function keys are not restricted by lock.

NOAA WEATHER FORECAST

Short press MONI/NOAA key to enter the weather forecast channel, displaying 天气, press UP/DOWN to select channel between 天气 - 天气. Short press MONI/NOAA key again to exit the weather forecast.

NOTE: enter the NOAA weather mode, the radio's transmitting, MONI and scan function will be disabled.

FLASHLIGHT

Power on the RB18, short press LAMP key to open the flashlight.

Short press LAMP key again to turn off the flashlight.

Advanced operations

Chinese/English prompt voice change

Press PTT+DOWN to open the radio, changing the Chinese/English prompt voice.

CPS programming path: Editor- Language change(Option: Chinese /English)

Edit- Language switch (Option: ON/OFF). Language switch is set to OFF, the voice prompt function will be turned off.

Transmit repeater activate audio

Press PTT+UP to transmit repeater activate audio 1750HZ, 1450HZ 2100HZ.

CPS programming path: Edit- Side key function(Option: 1750, 1450 2100HZ)

08

CPS program

Connect the radio to the computer by a special cable, you can read and write the frequency of radio, set the function parameters, etc.

CTCSS/CDCSS Code function

Through the CPS programming software, edit the received and transmitted sub-audio of each channel to prevent receiving unrelated calls on the same channel, including 50 CTCSS or 105 CDCSS.

CPS programming path: Edit- Channel- RX/TX

CTCSS/CDCSS option table is given in the appendix E.-CTCSS Table and appendix F. - DCS Table

VOX transmit

Through the PC programming software, set the VOX of radio to turn on/off and the sound control level 1 to 5 grade, level 1 sensitivity is the highest, level 5 sensitivity is the lowest.

CPS programming path: Edit- VOX control function (checkbox);

Edit- Voice level(Option: 1-5).

Busy channel lockout

Turn on this function, when the selected channel is being used by other users, press the PTT button, the radio is prohibited from transmitting and emits a “beep, beep” sound. When the channel is idle, you can transmit when you press the PTT key again.

CPS programming path: Edit- Channel- BCL (Option: Yes/No) .

set to Yes to activate the channel busy lock function.

Time out timer

TOT can effectively prevent any caller from occupying the channel for too long. If you continuously transmit more than the set TOT, the

radio will stop transmit and emit “beep”. To stop beep, release PTT key, and press the PTT again to resume transmission.

CPS programming path: Edit- TOT (Option: 30s, 60s, 90s, 120s, 150s, 180s 300s or turn off)

Squelch level

Level 1-9 to select, corresponding to SPK output S/N is 8-18dB.

Automatic power saving mode

The function is activated when no signal is received or no operation time exceeds 20s. Automatically stop when a signal is received or an operation is performed.

Low power alarm

The voice prompt is “Please charge” when the voltage is 3.4V, the transmission is prohibited when the voltage is 3.2V.

Frequency-hopping encryption

You can choose to turn on/off the function through the channel information bar on the PC software. After the function is turned on, you can't communicate with the channel where the function is turned off, receiving the signal only by forcibly pressing the MONI key.

SPECIFICATIONS

General	
Frequency Range	FRS 462.5500 ~ 467.7125 MHz (RX & TX)
Memory Channel	22 FRS Channels + 10 NOAA Weather
Operation Voltage	DC3.7V ±10%
Battery Capacity	1000mAh (Li-Ion)
Frequency Stability	±2.5ppm
Operating Temperature	-20 °C ~ +60 °C
Mode of Operation	Simplex
Antenna Impedance	50ohm

RET6/15

Transmitter	
RF Output Power	≤ 2W/0.5W(8CH-14CH)
FM Modulation	11K0F3E@12.5KHz
Spurious Emission	-36dBm<1GHz, -30dBm>1GHz
Adjacent Channel Power	60dB @ 12.5KHz
Transmission current	≤ 600mA
Receiver	
Receive Sensitivity	0.25μV (12dB SINAD)
Adjacent Channel Selectivity	≥55dB@12.5KHz
Inter Modulation and Rejection	≥55dB@12.5KHz
Conducted Spurious Emission	≤-57dB@12.5KHz
Rated Audio Power Output	0.75W @8ohms
Receive current	≤350mA
Rated Audio Distortion	≤5%

NOTE:

All specifications may be modified without prior notice or liability. Thank you

Frequency Allocation:

CH	Frequency	CTCSS	Power
1	462.5625	67.0	High
2	462.5875	118.8	High
3	462.6125	127.3	High
4	462.6375	131.8	High
5	462.6625	136.5	High
6	462.6875	141.3	High
7	462.7125	146.2	High
8	467.5625	D243N	Low
9	467.5875	D032N	Low
10	467.6125	D047N	Low
11	467.6375	D051N	Low
12	467.6625	D053N	Low

RET6/15

13	467.6875	D065N	Low
14	467.7125	D116N	Low
15	462.5500	123.0	High
16	462.5750	D743I	High
17	462.6000	D332I	High
18	462.6250	127.3	High
19	462.6500	D243I	High
20	462.6750	D606N	High
21	462.7000	D731I	High
22	462.7250	136.5	High

Weather Channel Allocation:

CH	Frequency	Weather CH
N1	162.550	NOAA1
N2	162.400	NOAA2
N3	162.475	NOAA3
N4	162.425	NOAA4
N5	162.450	NOAA5
N6	162.500	NOAA6
N7	162.525	NOAA7
N8	161.650	CANADA
N9	161.775	CANADA
N0	163.275	NOAA8

TROUBLESHOOTING GUIDE

Phenomena	Analysis	Solution
You cannot turn on the radio	The battery may be installed improperly	Remove and reattach the battery
	The battery power may run out	Recharge or replace the battery
	The battery may suffer from poor contact caused by dirty or damaged battery contacts	Clean the battery contacts or replace the battery

During receiving, the voice is weak or intermittent	The battery voltage maybe low	Recharge or replace the battery
	The volume level may be low	Increase the volume
	The antenna maybe loose or maybe installed incorrectly	Turnoff the radio, and then remove and reattach the antenna
	The speaker maybe blocked	Clean the surface of the speaker
You cannot communicate with other group members	The frequency or signaling type maybe inconsistent with that of other members	Verify that your TX/RX frequency and signaling type are correct
	You may be too far away from other members	Move towards other members
You hear unknown voices or noise	You may be interrupted by radios using the same frequency	Change the frequency, or adjust the squelch level
	The radio in analog mode maybe set with no signaling	Request your dealer to set signaling for the current channel to avoid interference
You are unable to hear anyone because of too much noise and hiss	You may be too far away from other members	Move towards other members
	You may be in an unfavorable position. For example, your communication may be blocked by high buildings or blocked in an underground area	Move to an open and flat area, restart the radio, and try again
	It may be the result of external disturbance (such as electromagnetic interference)	Stay away from equipment that may cause interference
The radio keeps transmitting	VOX may be turned on or the headset is not installed in place	Turn off the VOX function. Check that the headphones are in place
You cannot use the keys	The keypad may not work temporarily	Restart the radio

NOTE:

If the above solutions cannot fix your problems, or you may have some other queries, please contact your dealer for more technical support.

Retevis Two Way Radio Computer Programming Operation Instruction

Computer System Requirements

Operating system: W98, WME, WXP, WVT, W7, W8, Win10

Hard disk space: more than 50MB

The minimum memory: 64M

Preparation

1. Download Programming Driver and select the driver that match with your own system.
2. Install the Programming Driver (Or install it by running Software CD).
3. Download and install Programming Software (Or install it by running Software CD).
4. Connecting Personal Computer (PC) with the radio by the corresponding programming cable.

Note: 1. Serial port programming cable can be programmed directly. No installation needed.

2. Ensure the radio is full of power and is on.

Start Programming

1. Run programming software and click Setup-communication port. Choose the correct port corresponding with your PC. Otherwise, the radio will fail connecting with PC.
2. Click Program-Read From Radio, to upload frequencies from radio to software. The process will take a few seconds. Then you will find all channel settings show up.
3. Select the certain channel you want to modify and click Edit-Channel Edit/Batch Channel Edit.
4. Click Function Setting enable to modify general settings of the radio.
5. Click Program-Write To Radio, when finishing programming.

Relative Problem Solving

When no response while "reading or writing frequency" or connection error occur, you could:

- Check USB cable condition. Does it get damaged?
- Check USB cable or Serial port with PC/RADIO. Does it get damaged or loose?
- Check the radio power. If the power is low, please change a new battery or charge soon.
- Check if the radio is on when programming.
- Check if the software matches with the radio model.
- Check if you choose the correct driver that corresponds with your PC system.
- Check if you choose the correct communication port that corresponds with your PC.

Communication failure between two radios after finishing programming, you could:

- Confirm that two radios are in the same channel.
- Confirm that the CTCSS/CDS are same after programming two radios
- Confirm the radio volume is high enough.
- Confirm radios are all open and full of power.
- Confirm radios connected antenna well.
- Confirm the range between two radios. The maximum range would be 3km.

THE WEBSITE TO DOWNLOAD THE PROGRAMMING SOFTWARE:
<https://www.retevis.com/resources-center>

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.

Warnings

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



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 two-way radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. RF energy, which when used improperly, can cause biological damage.

All Retevis two-way radios are designed, manufactured, and tested to ensure they meet government-established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of two-way radios. These instructions are important because they inform users about RF energy exposure and provide simple procedures on how to control it.

Please refer to the following websites for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure limits:
<http://www.who.int/en/>

Local Government Regulations

When two-way radios are used as a consequence of employment, the Local Government Regulations requires users to be fully aware of and able to control their exposure to meet occupational requirements. Exposure awareness can be facilitated by the use of a product label directing users to specific user awareness information. Your Retevis two-way radio has a RF Exposure Product Label. Also, your Retevis user manual, or separate safety booklet includes

information and operating instructions required to control your RF exposure and to satisfy compliance requirements.

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: (Other devices are applicable)

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

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CE Requirements:

- (Simple EU declaration of conformity) Shenzhen Retevis Technology Co., Ltd. declares that the radio equipment type is in compliance with the essential requirements and other relevant provisions of RED Directive 2014/53/EU and the ROHS Directive 2011/65/EU and the WEEE Directive 2012/19/EU; the full text of the EU declaration of conformity is available at the following internet address: www.retevis.com.
- Restriction Information
This product can be used in EU countries and regions, including: Belgium (BE), Bulgaria (BG), Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain (ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT),

Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE) and United Kingdom (UK).

For the warning information of the frequency restriction, please refer to the package or manual section.

• Disposal

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.



IC Requirements:

Licence-exempt radio apparatus

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure Information

- 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 user and the device or its antenna shall be at least 2.5 cm.
- Mobile Device, during operation, the separation distance between user and the antenna subjects to actual regulations, this separation distance will ensure that there is sufficient distance from a properly installed externally-mounted antenna to satisfy the RF exposure requirements.
- Occupational/Controlled Radio, this radio is designed for and classified as "Occupational/Controlled Use Only", meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards; NOT intended for use in a General population/uncontrolled environment.
- General population/uncontrolled Radio, this radio is designed for and classified as "General population/uncontrolled Use".

RF Exposure Compliance and Control Guidelines and Operating Instructions

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

Guidelines:

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

Operating Instructions:

- Transmit no more than the rated duty factor of 75% of the time. To Transmit (Talk), push the Push to Talk (PTT) button. To receive calls (listen), release the PTT button. Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting in terms of measuring for standards compliance.
- Transmit only when people outside the vehicle are at least the recommended minimum lateral distance away from a properly installed according to installation instructions, externally mounted antenna.
- When operating in front of the face, worn on the body, always place the radio in a Retevis approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use of Non-Retevis approved accessories may result in exposure levels, which exceed the IEEE/ICNIRP RF exposure limits.

Hand-held Mode

- Hold the radio in a vertical position with the microphone (and other parts of the radio including the antenna) at least 2.5 cm (one inch) away from the nose or lips. The antenna should be kept away from the eyes. Keeping the



radio at a proper distance is important as RF exposure decreases with increasing distance from the antenna.

Phone Mode

- When placing or receiving a phone call, hold your radio product as you would a wireless telephone. Speak directly into the microphone.

Electromagnetic Interference/Compatibility

NOTE: Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility.

Avoid Choking Hazard



Small Parts. Not for children under 3 years.

Turn off your radio power in the following conditions:



WARNING

- 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 (flammable gas, dust particles, metallic powders, grain powders, etc.).
- Turn off your radio while taking on fuel or while parked at gasoline service stations.



WARNING

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:



WARNING

- 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



WARNING

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



WARNING

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.



WARNING

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



WARNING

- 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>