

Facebook:facebook.com/retevis

designed or otherwise configured for electromagnetic

TRANSCEIVER

◆Scan function

Busy Channel Lock Out

8. Make sure the cord is located so it will not be stepped on, tripped over or subjected to damage or stress. 9. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in risk of a fire and/or electric shock. If an extension cord must be

10. The supply cord of the AC adaptor cannot be replaced. If the cord is damaged, call customer service.



The information listed below provides the user with the information needed to make him or her aware of RF exposure and what to do to as-sure that this radio operates with the FCC RI exposure limits of this radio.

**Note:** Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded,

# FM Transceiver

will be pleased to use it in our daily life and work. This transceiver adopts advanced technology, we hope you

Notice: Please read this manual carefully before using this

flammable, explosive and area which transceiver communication is prohibited (such as oil station, gas station, · Please do not operate this transceiver without licence in

government laws banned areas. Please make sure this transceiver avoids the sunshine. and avoids to put it near any heating device. Please make sure this transceiver avoids any dusty, humis

· If transceiver smells or smokes, please remove the battery pack from transceiver at once, and then contact our company or local dealer.

professionals & technicals, self-disassembly is prohibted

Welcome to use our handheld transceiver. We believe you

GETTING STARTED..... will be satisfied with its quality and functions. This transceive will bring you convenient, fast, reliable two-way communication. BASIC OPERATION.....

• Please do not communicate or charge this transceiver in CTCSS/DCS.....

and water splashed place, and also avoids to put it on unstable surface.

The repair job of this transceiver is in the charge of

PREPARATION..... VOX FUNCTION.....

**CONTENTS** 

AUXILIARY FUNCTIONS.....8 CTCSS FREQUENCY(50 CTCSS FREQUENCY).....10

UNPACKING AND CHECKING EQUIPMENT.....

DCS FREQUENCY (105 DCS FREQUENCY)..... WARNING......17 TECHNICAL SPECIFICATIONS AND WARNINGS (US).....18

TECHNICAL SPECIFICATIONS AND WARNINGS(CANADA).....

### 1. Supplied Accessories

Quantity

## UNPACKING AND CHECKING EQUIPMENT

We recommend that you open the packing box before

If battery smells smelly, different colors, out of shape or

USB Charger User's Manual

## PREPARATION

· Do not charge the battery for a long time!

· Do not throw the battery into micro-wave oven and high-

any unusual display, please remove the battery from

charger or operating device and do not use it.

For battery long time storage

charging. Otherwise the battery may be overheat and

pressure container! Prevent the break as well as liquid spilling battery from fire!

away from inflammable area. The electrolyte spilling from the battery is easy to catch fire, and it will cause battery Do not use unusual battery!

 Please use standard charger The charger supplied is specialized designed for this transceiver only, it will charge the battery more scientific reasonable, and safety.

1.Use Li-ion Battery To prevent battery pack from discharging, please remove the battery from transceiver or device when it is ot in use, and then store it in a cool dry place

Remove the battery from device

### If possible discharge battery. 3. Store it in a cool(below 25℃) and dry place.

2.Battery Characteristic The capacity of battery will reduce step by step after being

charged and discharged again and again · Battery will be aged even without any usage. It will cost longer time to charge the battery in cool and dry place.

· Battery working life will be reduced if being charged in otter place. Battery ages more quickly when stored in hot lace. Please do not leave battery in car and put it near any heating · If battery working life becomes shorter, please replace it

even it is fully charged. If go on being charged and discharged, the electrolyte will spill 3.Charge Li-ion Battery hen charger is power on, put battery in and full connected,

he light will turn red, start charging. When battery has been

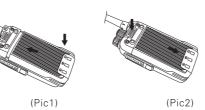
4. Install/Remove Battery Pack Do not short circuit battery pack terminals or throw battery o not try to remove the battery pack shell

fully charged, the green light on.

otherwise spark will cause explosion. sert the top part of the battery pack into the top 2 slots of the transceiver and then press the battery pack down until a "click" sound is heard.(Pic1) o remove the hattery pack, make sure the transceiver has

been turned off, and then press the battery released latch in th

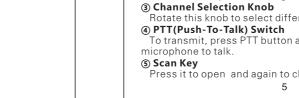
not install battery pack under dangerous conditions,



bottom of transceiver, and pull the bottom part of battery away om the transceiver body, and remove the battery.(Pic2) 5.Install/Remove Belt Clip If necessary, install the supplied screws into the belt clip at

he back of battery pack for easy carry.(Pic3) To remove the belt clip, directly remove the two screws only. 6.Install Hand Strap Install the hand strap at the middle circle of the transceiver. (Pic4,









① Power/Volume Knob otating to adjust the volume. To turn it off, rotate the knob end anticlockwise. background noise while adjusting volume. ② LED Indicator When transmitting, LED indicator turns green, and when 3.Channel Select

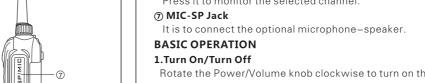
o transmit, press PTT button and face towards

receiving, LED indicator turns red. LED indicator will flash

Press it to open and again to close this function.

with FCC requirements, transmitter adjustments should be made

Press it to monitor the selected channel.



transceiver Rotate the Power/Volume knob anticlockwise to turn or the transceiver. 2.Adjust Volume

Rotate the Power/Volume knob to adjust the volume. 2. Press [PTT] key, and speak to microphone. Clockwise rotation will rise the volume and anticlockwise (1) Keep microphone away from your mouth about 3~4 cm, rotation will reduce the volume. and speak in your usual tone, so that the receiver can get More accurate adjustment is needed while communication best tone quality. (2) Press [PTT] key, LED indicator displays red. Note: You can press MONI key to monitor the

3. Release [PTT] key and start to receive.

Warnings (Canada)

4.Adjust Squelch Level

5.Transmit(Call)

When the selected channel is being called, LED indicator displays green, you can receive the call. • If the transmitting signal is weaker, and also higher

nction is used to let speaker quiet when no an

signal. When squelch is on, you can hear background noise

squelch function. If the selected squelch level is too high, then

level is too low , then signal will appear with the background

weaker signal can not be heard; But if the selected squelch

1. According to different settings of monitor function,

transceiver is transmitting on the selected channel.

press [MONI] key to monitor loudspeaker. Make sure no any

from speaker. When squelch is off, no any noise can be

squelch level is set, then maybe you can not receive the call. Maybe your local dealer has set CTCSS/DCS signalling on your transceiver. When this programmable channels has been selected, only transceiver with same signalling can be received. Other transmitting can not be received.

which contains important operating instructions for

## VOX FUNCTION

SCAN FUNCTION

Press Scan key to start auto scan. When receiving signa fter signal disappears in 5s· Press [PTT] key, if scan is om the scan start channel. If scan stops, transmitting w CTCSS and DCS Maybe your local dealer has set CTCSS/DCS signalling on

default setting of this function is off, if the selected

when other transceiver is using this channel, if press [P

"beep", "beep". To stop beep sound, release PTT key

our transceiver. When this programmable channels has been selected, only transceiver with same signalling can be S""which is under "CTCSS/DCS decode" and received. Other transmitting can not be received. CTCSS/DCS encode", and select the necessary CTCSS, then his function can help you not to receive unnecessary cal vrite it into transceiver by software. seems the transceiver maybe have its own channel afte CSS/DCS has been input, but if other transceivers hav pen the software, input the necessary frequency, click been set same CTCSS/DCS codes, your transmitting can be "DCS""which is under "CTCSS/DCS decode" and "CTCSS/DCS

1. Busy Channel Lockout

6.Time-out Timer(TOT) TOT function is used to prevent a channel have been used for a long time. If the transmitting time exceeds the programmable time transceiver will stop transmitting, and send alarm sound.

When this channel is free, press PTT key again to transmit.

detected. When voltage is low, LED indicator displays red

transmitting will run out of battery quickly. When batter

voltage is very low, an alarm will be heard, transmitting i

rohibited. Please charge the battery pack or replace the

difficult to be received under normal operation, and also

djust the selected channel volume if signal disappears.

ou can press [MONI] key to monitor weaker signal which is

encode", and select the necessary CTCSS, then write it into

Release [PTT] key, transceiver will back to receiving mode

The transceiver can be used for a while, but excessive

2. Battery Voltage

3. Monitor

4. CTCSS Select

automatically .

CTCSS FREQUENCY(50 groups)

DCS FREQUENCY (105 groups

All batteries can cause property damage and/or bodily injury such as burns if a conductive material touches exposed terminals. The

use sharp or conductive tools to remove these batteries. • Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse or other container with

• Exercise care when removing NiMH or AA batteries. Do not

Test position and configuration Head SAR was performed with the device configured in the positions according to IEEE1528, and face up SAR was performed with the device 25mm from the phantom, Body SAR was performed with the belt clip on the device 0 mm from the phantom. Body SAR was also performed with the headset attached and

Warnings

1) The antenna in the packing is unique, please do not optional change. 2) For safe operation, the antenna for the product shall be least 25mm away from your face, when speaking.

4) DO NOT use any portable radio that has a damaged antenna. If damaged antenna comes into contact with your skin, a minor burn



Do not discard your battery in a fire. Do not replace the battery in any area labeled "Hazardous

Atmosphere". Any sparks created in a potentially explosive tmosphere can cause explosion or fire. Do not disassemble, crush, puncture, shred or otherwise attempt to change the form of your battery. Do not dry a wet battery or damp battery with an appliance or

3) Switching to other antennas is prohibited and will affect the radio



**GUARANTEE CARD** 

**Battery Charger Safety Instructions:** Turn the radio off when charging the battery. o not expose the charger to outside environment. Chargers

If the radio battery contact area has been submerged in wate

dry and clean the battery contacts before attaching the battery t

heat source, such as a hair dryer or microwave oven.

Do not operate or disassemble the charger. Do not use a harger that has been dropped or damaged in any way. 4. Never alter the AC cord or plug provided with the unit. If the plug will not fit the outlet, have the proper outlet installed by ualified electrician. An improper condition can result in a risk

rather than the cord when disconnecting the charger from the AC 6. To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.

5. To reduce the risk of damage to the cord or plug, pull the plug

Solutions may result in a risk of fire, electric shock or personal

The pins on the plug of the extension cord are the same number, size and shape as those on the plug of the charger. The extension cord is properly wired and in good condition

Electromagnetic Interference/Compatibility

During transmissions, RETEVIS, INC. radio generates RF energy that can possibly cause interference with other devices or

To avoid electromagnetic interference and/or compatibility using equipment that is sensitive to external RF energy.

When instructed to do so, turn off your radio when onboard a aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

Persons with nacemakers, Implantable cardioverter defibrillators (ICDs) or other active implantable medical

• Turn the radio OFF immediately if there is any reason to suspect that interference is taking place.

conflicts, turn off your radio in any facility where posted notice instruct you to do so. Hospitals or health care facilities may be

Medical Devices - Pacemakers, Defibrillators or other Implanted Medical Devices.

devices (AIMD) 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

• Do not carry the radio in a chest pocket or near the implantation site, and carry or use the radio on the opposite side of their body from the implantable device to minimize the potential for interference.

Hearing Aids

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

areas where you drive.

driving conditions or regulations so require. For Vehicle with Air Bags

and the air bag inflates, the radio may be propelled with great force and cause serious injury to occupants of the vehicle.

Turn off your radio prior to entering any area with a potentially explosive atmosphere. Only radiotypes that are especially

Use hands-free operation, if available. Pull off the road and park before making or answering a call.

Refer to the vehicle manufacturer's manual prior to installation of electronic equipment to avoid interference with air bag viring. Do not place a portable radio in the area over an air ba or in the air bag deployment area. Air bags inflate with great force. If a portable radio is placed in the air bag deployment are

Use of Communication Devices While Driving Always check the laws and regulations on the use of radios in the

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.

• Give full attention to driving and to the road.

Potentially Explosive Atmosphere

fire resulting in bodily injury or even death.

Blasting Caps and Areas

↑ Warning: CHOKING HAZARD-Small Parts. Not for

Do not remove, install or charge batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or

**Note:** The areas with potentially explosive atmosphere referred Aviso: RISCO DE ASFIXIA – Peças pequenas. Produto to above include fueling areas such as below decks on boats, fuel não recomendado para crianças com menos de 3 anos. 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.

To avoid possible interference with blasting operations, turn off your radio when you are near electrical blasting caps, in a blasting area, or in areas posted "Turn off two-way radios". Obey all signs and instructions.

children under 3 years. Attention! RISQUE D'ÉTOUFFEMENT – Contient de petits éléments. Ne convient pas aux enfants de moins de 3 ans. Advertencia: PELIGRO DE ASFIXIA – Contiene piezas

pequeñas. No conveniente para niños menores de 3 años.

Achtung: ERSTICKUNGSGEFAHR – Kleinteile. Nicht

für Kinder unter 3 Jahren geeignet. ↑ Waarschuwing: VERSTIKKINGSGEVAAR – Bevat kleine onderdelen. Niet geschikt voor kinderen jonger dan 3 jaar.

pezzi di piccole dimensioni. Non adatto a bambini di età

↑ Attenzione: RISCHIO DI SOFFOCAMENTO – Contiene Technical specifications and warnings (US

Technical Parameters (US) ◆ Operating frequency: 462.5500MHz~467.7125MHz ◆ Output Power: 2W/0.5W

♦ Channels: 22 FRS

→ Modulation type: F3E

◆ Bandwidth: 12.5KHz

♦ Antenna gain: 2.15dBi

◆ Power source: LI-ion Battery 3.7V DC/1100mAh Channel and frequency correspondence list (US)

1 | 467.6375 | 0.5W | 22 | D026N | 22 | 462.7250 | 2W | 114.8

Note: Above channels are FRS license free channels

Institute of Electrical and Electronic Engineers (IEEE) C95...

Product safety and RF Exposure for transceiver:

instructions for safe use.



Electromagnetic Fields. - American National Standards Institute (ANSI)/Institute of Electrical & Electronic Engineers (IEEE) C95. 1-2005

- International Electrotechnical Commission IEC62209-2:2010

Before using this transceiver, please read the manual which contains important operating instructions for safe usage, RF Energy Awareness, control information ✓ ! and operational instructions for compliance with RF Energy Exposure limits in applicable national and international standards, and also read the operational



Your Retevis radio is designed to comply with the followin national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic nited States Federal Communications Commission, Code of Federal Regulations: 47 CFR part 2.1093 - IEEE Std. 1528:2013 and KDB447498, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency

This product is compliance to FCC RF Exposure requirements and refers to FCC website https://apps.fcc.gov/oetcf/eas/renorts/GenericSearch\_cfr search for FCC ID: 2AAR8RETEVISRT27 to gain further information include SAR Values.

SAFETY INFORMATION

measurable RF energy exposure only when transmitting.

Your wireless hand-held portable transceiver contains a low power transmitter. This product sends out radio frequency (RF signals when the Push-to-Talk (PTT) button is pressed. The evice is authorized to operate at a duty factor not to exceed 0%. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety To control your exposure and ensure compliance with the genera transmit no more than 50% of the time. The radio generates

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's author to operate the equipment and should not be made. To comply

authorization for this radio could violate FCC rules.

only by or under the supervision of a person certified as echnically 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 FCC equipment

> Note: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

**Body-Worn Operation** To maintain compliance with FCC's RF exposure guidelines, for body-worn operation, this radio has been tested and meets the FCC RF exposure guidelines when used with Retevis Radio Corp. accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF

f you do not use any accessories supplied or approved by Retevis, ensure the radio and its antenna are at least 1 inch (2.5cm) from your body when transmitting.

Technical Parameters (Canada) ▲ Operating frequency: 462.5625~467.7125MHz ◆ Output Power: ≤0.5W ♦ Channels: 16

Technical specifications and warnings (Canada)

Rotate Channel Selection Knob to select needed channe

Clockwise rotation will rise the channel number and

anticlockwise rotation will reduce the channel number.

Voice Prompt: The radio will be voice prompt recent

can select the language by software.

channel number automic when you rotete channel knob.

The voice prompt can be set by English and Chinese, you

◆ Modulation type: F3E Bandwidth: 12.5KHz ◆ Antenna gain: 2.15dBi ♦ Power source: LI-ion Battery 3.7V DC/1100mAh

Channel and frequency correspondence list (Canada) CH.No CH.Freq. (MHz) ERP CTCSS/DCS CH.No CH.Freq. (MHz) ERP CTCSS/DCS CH.No (MHz) ERP CTCSS/DCS CH.No (MHz) 1 462.5625 0.5W 114.8 9 467.5875 0.5W 114.8 462.6625 0.5W 114.8 13 467.6875 0.5W 11

f you wear the radio on your body when transmitting always use Retevis supplied or approved belt clip, holster, case, or body Note: Above channels are FRS license free channels

8 | 467.5625 | 0.5W | 114.8 | 16 | 467.5625 | 0.5W | D026

1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the devi Le présent appareil est conforme aux CNR d'Industrie Canada applicables auxappareils radio exempts de licence. xploitation est autorisée aux deux conditions suivante 1) l'appareil ne doit pas produire de brouillage, et radioélectrique subi, même si le brouillage est susceptible d'e

compromettre lefonctionnement.

instructions for safe use.

### Product safety and RF Exposure for transceiver Before using this transceiver, please read the manual

safe usage, RF Energy Awareness, control information and operational instructions for compliance with RF Energy Exposure limits in applicable national and international standards, and also read the operational

This device complies with Industry Canada licence-exempt RSS Protection (ICNIRP) e standard(s). Operation is subject to the following two

Compliance with RF Exposure Standards our Retevis radio is designed to comply with the following exposure of human beings to radio frequency electromagnetic American National Standards Institute (ANSI)/Institute of

- Ministry of Health (Canada) Safety Code 6 & Industry Canada

IC Radiation Exposure Statement This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had

stance 1 cm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

l'industrie Canada et a été testée en conformité avecles néthodes de mesure et procédures spécifiéés dans IEEE 1528 e

Cet appareil est conforme aux limites d'exposition DAS

ppareil et sa ou ses antennes ne doivent pas étre co-localisés o fonctionner en conjonction avec tout autre antenne ou ectrical & Electronic Engineers (IEEE) C95. 1. EEE Std. 1528:2013 and KDB447498, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency

International Electrotechnical Commission IEC62209-2:2010

To receive calls, release the PTT button To transmit (talk), press the Push-to-Talk (PTT) button in front en tested in accordance with the measurement methods and procedures specified in IEEE 1528 and IEC 62209 this equipment should be installed and operated with minimum

incontrôlées pour la population générale de la norme CNR-102

Please refer to the following websites and Guidance documents for more information on what RF energy exposure is and how to Cet appareil doit être installé et utilisé et utilisé avec une control your exposure to assure compliance with established RI distance minimale de 1 cm entre l'émetteur et votre corps. Cet exposure limits: RSS-102, Safety Code 6 and www.who.int/en/

Transmit and Receive Procedure

Your two-way radio contains a transmitter and a receiver. To control your exposure and ensure compliance with the general opulation/uncontrolled environment exposure limits, always adhere to the following procedure: -Transmit no more than 50% of the time.

**Note:** RF exposure decreases with increasing distance from th

-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. Keeping the radio t a proper distance is important to ensure compliance.

Model Number: Serial Number: \_\_\_\_\_ Purchasing Date: \_\_\_\_\_

5. The user can get repairing service from the following ways

a.Go to the shop where you buy the machine

b.Our local repairing agent

number on the guarantee card is same as that on the machine. 4. One-year guarantee, charger, battery, earphone, antenna and

Dealer: \_\_\_\_\_\_ Telephone: \_\_\_\_\_ User's Name: \_\_\_\_\_ Telephone: \_\_\_\_\_ Address: \_\_\_\_\_Post Code: \_\_\_\_

2. This guarantee card to be filled & chopped by the dealer, or it is invalid.

can cable are not under guarantee.

3.Don't alter the guarantee card, please confirm the serial

1.This guarantee card to be kept by the user,no repl-