



designed or otherwise eon figured for electromagnetic Ouring transmissions, RETEVIS, INC, radio generates RF

ImplantedMedicalDevices.

devices (AIMD) should:

potential for interference.

energy that can possibly cause interference with other devices or

conflicts, turn off your radio in any facility where posted notices

instruct you to do so. Hospitals or health care facilities may be

When instructed to do so, turn off your radio when onboard an

efibrillators (ICDs) or other active implaatable medical

Consult with their physicians regarding the potential risk of

lios (poorly shielded medical devices may be more susceptibl

interference from radio frequency transmitters, such as portable

Turn the radio OFF immediately if there is any reason to

mplantation site, and carry or use the radio on the opposite side

Do not carry the radio in a chestpocket ornear the

of their body from the implantable device to minimize the

uspect that interference is taking place.

To avoid electromagnetic interference and/or compatibility

using equipment that is sensitive to external RF energy.

aircraft. Any use of a radio must be in accordance with

Medical Devices - Pacemakers, Defibrillators or other

Persons with pacemakers, Implaatable cardioverter

applicable regulations per airline crew instructions.

TRANSCEIVER

◆Scan function

Busy Channel Lock Out

6. To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning. 7. Use of an attachment not recommended or sold by Retevi Solutions may result in a risk of fire, electric shock or nersonal 8. Make sure the cord is located so it will not be stepped on,

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

rather than the cord when disconnecting the charger from the A

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 used, make sure that: The pins on the plug of the extension cord are the same number,

size and shape as those on the plug of the charger. heextension cord is properly wired and in good condition 0. The supply cord of the AC adaptor cannot he replaced. If the eord is damaged, call customer service.

The information listed below provides the user with the

information needed to make him or her aware of RF exposu and what to do to as-sure that this radio operates with the FCC RF exposure limits of this radio.

Electromagaetic laterference/Compatibility Note: Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded

FM Transceiver

Welcome to use our handheld transceiver. We believe you will be pleased to use it in our daily life and work. This transceiver adopts advanced technology, we hopeyou will be satisfied with its quality and functions. This transceiver will bring you convenient fast, reliable two -way communication. Notice:

 Please read this manual carefully before using this Please do not communicate or charge this transceiver in 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 bannedareas. Please make sure this transcelver avoids the sunshine, and avoids to put it near any heating device.

If transceiver smells or smokes, please remove the battery pack from transceiver at once, and then contact our company or local dealer. • The repair job of this transceiver is in the charge of

Please make sure this transceiver avoids any dusty, humid

and water splashed place, and also avoids to put it on

professionals & technicals, self-disassembly is prohibted

Some digital wireless radios may interfere with some hearing

aids. In the event of such interference, you may want to consult

If you use any other personal medical device, consult the

shielded from RF energy. Your physician may be able to assist

Always check the laws and regulations on the use of radios in the

Pull off theroad and park before making oranswering a call, if

efer to the vehicle manufacturer's manual prior to installation

iring. Do not place a portable radio in the area over an air bag

rce. If a portable radio is placed in the air bag deployment area

in the air bag deployment area. Air bags inflate with great

and the air bag inflates, the radio may be propelled with great

orce and eause serious injury to occupants of the vehicle.

Furn off your radio prior to entering any area with a potentially

explosive atmosphere. Only radiotypes that are especially

qualified should be uusedn such areas as "Intrinsically Safe".

f electronic equipment to avoid interference with air bag

manufacturer of your device to determine if it is adequately

Use of Communication Devices While Driving

Give full attention to driving and to the road.

Use hands-free operation, if available.

driving conditions or regulations so require.

Potentially ExplosiveAtmosphere

your hearing aid manufacturer to discuss alternatives.

OtherMedical Devices

areas where you drive.

For Vehicle with Air Bags

you in obtaining this information.

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DCS FREQUENCY (105 DCS FREQUENCY)......19 TECHNICAL SPECIFICATIONS AND WARNINGS (US).....18

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

to above include fucling areas such as below decks on boats, fuel

or chemical transfer or storage facilities, areas where the air

contains chemicals or narticles (such as grain, dust or metal

powders) and any other area where you would normally be

explosive atmospheres are often – but not always posted.

your radio when you are near electrical blasting eaps, in a

↑ Warning: CHOKING HAZARD-Small Parts. Not for

Attention! RISQUE D'ÉTOUFFEMENT – Contient de

petits éléments. Ne convient pas aux enfants de moins de 3 ans.

pequeñas. No conveniente para niños menores de 3 años.

↑ Waarschuwing: VERSTIKKINGSGEVAAR – Bevat

kleine onderdelen. Niet geschikt voor kinderen jonger dan 3 jaar.

Advertencia: PELIGRO DE ASFIXIA - Contiene piezas

Achtung: ERSTICKUNGSGEFAHR - Kleinteile. Nicht

advised to turn off your vehicle engine. Areas with potentially

To avoid possible interference with blasting operations, turn off

hlasting area, or in areas posted "Turn off two-way radios". Obey

fire resulting in bodily injury oreven death.

Blasting Caps aad Areas

all signs and instructions.

children under 3 years.

für Kinder unter 3 Jahren geeignet.

UNPACKING AND CHECKING EQUIPMENT

check carefully the main transceiver in the packing box and th supplied accessories. If any item missed or damaged during hipment, please contact the shipper or local dealer.

Hand Strap BeltClip Battery USBCharger User's Menual

HandStrap

USB Charger User's Manual

Attenzione: RISCHIO DI SOFFOCAMENTO - Contiene

Aviso: RISCO DE ASFIXIA-Peças pequenas. Produto

pezzi di piceole dimensioni. Non adatto a bambini di età

não recomendado para crianças com menos de 3 anos

PREPARATION

We recommend that you open the packing box before use and

• Do not charge the battery for a long time!

pressure container

If battery is not fully charged within schedule time, stop charging. Otherwise the battery may be overheat and · Do not throw the battery into micro-wave oven and high-

The battery may be overheat and smoke and burst into fire Prevent the break as well as liquid spilling battery from fire If the battery is spilling(or exuding smelly smell), put it away from inflammable area. The electrolyte spilling from the battery is easy to catch fire, and it will cause battery smokes or burst into fire suddenly.

 Do not use unusual battery! If battery smells smelly, different colors, out of shape of any unusual display, please remove the battery from charger or operating device and do not use it.

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

Charge the battery before use. To prevent battery pack from discharging, please remove the battery from transceiver or device when it is not in use, and then store it in a cool dry place For battery long time storage

Technical specifications and warnings (US/Canada)

◆ Power source: I.I-ion Battery 3.7V DC/1100rnAh

Channel and frequency correspondence list

462.6625 11 467.6875 17 462.6000

462.6875 12 467.6625 18 462.6250

Note: Above channels are license free channels

CH.No CH.Freq. CH.No CH.Freq. CHNo CH.Freq. CHNo CH.Freq.

462.5875 8 467.5625 14 467.7125 20 462.6750

462.5500 21 462.7000

462.5750 22 462.7260

7 462.7125 13 467.6875 19 462.6500

1. Remove the battery from device

Technical Parameters (US/Canada)

◆ Operatingfrequency: 462-467MHz

◆ Channels: 22

(US/Canada)

◆ Modulation type: F3E

◆ Bandwidth: 12.5KHz

2.Battery Characteristic

Battery will be aged even without any usage. It will cost longer time to charge the battery in cool and dryplace Battery working life will be reduced if being charged in notter place. Battery ages more quickly when stored in ho

place. Please do not leave battery in car and put it nearany heating If batteryworking life becomes shorter, please replace it even it is fully charged. If go on being charged and discharged the electrolyte will spill.

4. Install/Remove Battery Pack Please use standard charger

3. Store it in a cool(below 25°C) and dry place. The capacity of battery will reduce step by step after being

chargad and discharged again and again.

bottom of transceiver, and pull the bottom part of battery away

3.Charge Li-ion Battery When charger is power on, put battery in and full connected, the light will turn red, start charging. When battery has been Install the hand strap at the middle circle of the transceiver (Pic4) fully charged, the green light on.

Do not short circuit battery pack terminals or throw battery Do not try to remove the battery pack shell. not install battery pack under dangarous conditions, otherwise spark will cause explosion

Product safety and RF Exposure for transceiver:

instructions for safe use.

Federal Regulations: 47 CFR part 2.1093

Electromagnetic Fields.

Your Retevis radio is designed to comply with the following

national and international standards and guidelines regarding

exposure of human beings to radio frequency electromagnetic

United States Federal Communications Commission, Code of

IEEE Std. 1528:2013 and KDB447498, Evaluating Compliant

with FCC Guidelines for Human Exposure to Radio Frequency

Institute of Electrical and Electronic Engineers (IEEE) C95.3-

International Electrotechnical Commission IEC62209-2:2010

American National Standards Institute (ANSI)/Institute of

Electrical & Electronic Engineers (IEEE) C95. 1-2005

nsert the top part of the battery pack into the top 2 slots of he transceiver and then press the battery pack down until a nove the battery pack, make sure the transceiver ha peen turned off, and then press the battery released latch in th

Before using this transceiver, please read the man nal

which contains important operating instructions for

safeusage, 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

(Pic2)

This product is compliance to FCC RF Exposure requirements

search for FCC ID: 2AAR8RETEVISRT27 to gain further

Your wireless hand-held nottable transceiver contains a low

signals when the Push-to-Talk (PTT) button is pressed. Th

population or uncontrolled environment exposure limits.

ansmit no more than 50% of the time. The radio generate

measurable RF energy exposure only when transmitting.

Any Changes or modifications not expressly approved by the

party responsible for compliance could void the user's authori

to operate the equipment and should not be made. To comply

50%. In August 1996, the Federal Communications

levels for hand-held wireless devices.

power trausmitter. This product sends out radio frequency (RF

cvice is authorized to operate at a duty factor not to exceed

Commissions (FCC) adopted RF exposure guidelines with safety

To control your exposure and ensure compliance with the genera

and refers to FCC website

SAFETY INFORMATION

https://apps.fcc.gov/oetcf/eas/rep

information include SAR Values.

from the transceiver body, and remove the battery (Pic2) 5.Install/Remove Belt Clip f 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

Scan Key Press it to open and again to clos this function

with FCC requirements, transmitter adjustments should be made

only by or under the supervision of a person certified as

semiconductor, etc) not authorized by the FCC equipment

eplacement of any transmitter component (crysta

authorization for this radio could violate FCC rules.

technically qualified to perform transmitter maintenance and

y an organization representative of the user of those services

repairs in the private land mobile and fixed services as certified

Note: Use of this radio ontside the country where it was intended

to be distributed is subject to government regulations and may be

To maintain compliance with FCC's RF exposure guidelines, for

Corp. accessories supplied or designated for this product. Use of

If you wear the radio on your body when transmitting always use

hody-worn operation, this radio has been tested and meets the

CC RF exposure guidelines when used with Retevis Radio

other accessories may not ensure compliance with FCC RF

Retevis supplied or approved belt clip, holster, case, or body

If you do not use any accessories supplied or approved by

Retevis, ensure the radio and its antenna are at least 1 inch

(2.5em) from your body when transmitting.

otate this knob to select different chann Is

To transmit, press PTT button and face towards

Power/Volume Knob

to the endanticlockwise.

(3) Channel Selection Knob

microphone to talk.

Body-Worn Operation

harness for this product.

PTT(Push-To-Talk) Switch

Rotate the knob clockwise to turn on the transceiver, keep

When transmitting, LED indicator turns green, and when

receiving, LED indicator turns red LED indicator will flash

rotating to adjust the volume. To turn it off, rotate the knob

Press it to monitor the selected channel. ⑦ MIC-SP Jack

BASIC OPERATION

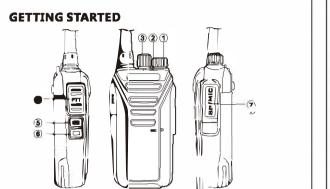
1.TurnOn/Turn Off

transceiver

Warnings (Canada)

the transceiver.

2.Adjust Volume



rotation will reduce the volume. More accurate adjustment is needed while communication. Note: You can press MONI key to monitor the background noise while adjusting volume. 3.Channel Select

Rotate the Power/Volume knob clockwise to turn on the

Rotate the Power/Volume knob anticlockwise to turn on

Clockwise rotation will rise the volume and anticlockwise

Rotate the Power/Volume knob to adjust the volume.

Rotate Channel Selection Knob to select needed channel. Clockwise rotation will rise the channel number and anticlockwise rotation will reduce the channel number. Voice Prompt: The radio will be voice prompt recent channel number automic when you rotete channel knob The voice prompt can be set by English and Chinese, you can select the language by softwere.

Before using this transceiver, please read the manual

which contains important operating instructions for

sa fe u sage, 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 operations

This device complies with Industry Canadalicence-exemptRSS

standard(s). Operation is subject to the following two

2) This device must accent any interference, including

interference that may cause undesired operation of the device

Le présent appareil est conforme aux CNR d'Industrie Canada

exploitation est autorisée aux deux conditions suivantes :

radioélectrique subi, même si le brouillage est susceptible d'er

) l'utilisateur de l'appareil doit accepter tout brouillage

This device may not cause interference, and

applicables auxapparcils radio exempts de licence.

compromettre lefonctionnement.

appareil ne doit pas produire de hrouillage, ct

Product safety and RF Exposure for transceiver:

instructions for safe use.

It is to connect the optional microphone-speaker.

squelch function. If the selected squelch level is too high, then weaker signal can not be heard; But if the selected squelch level is too low, then signal will appear with the background 5.Transmit(Call)

1. According to different settings of monitor function.

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

press [MONI] key to monitor loudspeaker. Make sure no any transceiver is transmitting on the selected channel . Press [PTT] key, and speak to microphone. (1) Keep microphone away from your mouth about 3~4 cm. and speak in your usual tone, so that the receiver can get (2) Press [PTT] key, LED indicator displays red

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 squelch level is set, then maybe you can not receive the call. ising same channel frequency. 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 cen not be received.

Compliance with RF Exposure Standards

Electrical & Electronic Engineers (IEEE) C95. 1.

- International Commission on Non-lonizing Radiation

Electromagnetic Fields.

Protection (ICNIR.P).c.

IC Radiation Exposure Statement

This EUT is compliance with SAR for general

Your Retevis radio is designed to comply with the following

national and international standards and stuidelines regarding

exposure of human beings to radio frequency electromagneti

American National Standards Institute (ANSI)/Institute of

- IEEE Std. 1528:2013and KDB447498, Evaluating Compliance

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

with FCC Guidelines for Human Exposure to Radio Frequency

- International ElectrotechnicalCommission IEC62209-2:2010

population/uncontrolled exposure limits in IC RSS-102 and had

e en tested in accordance with the measurement methods and

listance 1 cm between the radiator and yourbody. This device

procedures specified in IEEE 1528 and IEC 62209, this

equipment should be installed and operated with minimum

nd its antenna(s) must not be co-located or operating in

conjunction with any other antenna or transmitter.

Squelch function is used to let speaker quiet when no any ess and hold the [MONI] key to boot, and VOX setting unction will be open, then press [MONI] key again to sele ignal. When squelch is on, you can hear background noise from speaker. When squelch is off, no any noise can be VOX levels, you can use short press the IMONII key to sale the VOX levels from 0-9, finally press [PTT] key to confirm he selected squeich level will dacide where to tum on or off SCAN FUNCTION

Press Scan key to start auto scan. When receiving signal. vill stop at current channel, and it will auto scan again er signal disappears in 5s. Press [PTT] key, if scan is working, then transmitting will according to the frequency rom the scan start channel. If scan stops, transmitting wil according to current channel.(PC programmable)

CTCSS and DCS Maybe your local dealer has set CTCSS/DCS signalling on your transceiver. When this programmable channels ha een selected, only transceiver with same signal ling can be eceived. Other transmitting can not be received. nis function can help you not to receive unnecessary cal seems the transceiver maybe have its own channel after CTCSS/DCS has been input, but if other transceivers have

ey, then can not transmit , and transceiver will sound

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

Cet appareil est conforme aux limites d'ex position DAS

Cet annareil doit être installé et utilisé et utilisé avec une

onctionner en conjonction avec tout autre antenne ou

d'industric Canada e ta été testée en conformité aveele

ncontrôlées pour la population générale de la norme CNR-102

Open 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 encode", and select the necessary CTCSS, then write it into Busy Channel Lockout 6.Time-out Timer(TOT)

Start this function to prevent interfereing other transceiver TOT function is used to prevent a channel have been used for a The default setting of this function is off, if the selected If the transmitting time exceeds the programmable time, hannel is programmed on by software or local dealer transceiver will stop transmitting, and send alarm sound. then other transceiver is using this channel, if press [PTT]

2. Battery Voltage

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

hen transceiver power is on, batteryvoltage will be auto

detected. When voltage is low, LED indicator displays red.

e transceiver can be used for a while, but excessive

transmitting will run out of battery quickly. When battery

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

difficult to be received under normal operation, and also

adjust the selected channel volume if signal disappears.

CSS""which is under "CTCSS/DCS decode" and

write it into transceiver by software.

open the software, input the necessary frequency, click

CTCSS/DCS encode", and select the necessary DCS, then

prohibited. Please charge the battery pack or replace the

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

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

CTCSS FREQUENCY (50 groups 1 820 12 047 02 141 2 24 170 0 46

11 94.8 22 136.5 33 177.3 44 218.1

) Switching to other antennasis prohibited and will affect the radio 4) DO NOT use any nortable radio that has a damaged antenna. If a



Exercise eare in handling any charged battery, particularl when placing it inside a pocket, purse or other container with Do notdiscardyour battery in a fire. In not replace the hattery in any area labeled "Hazardous

If the radio battery contact area has been submerged in water

dry and clean the battery contacts before attaching the battery to

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

use sharp or conductive tools to remove these batteries.

device configured in the positions according to IEEE 1528, and face un SAR was performed with the device 25mm from the phantom. Body Atmosphere". Any sparks created in a potentially explosive SAR was performed with the belt clip on the device 0 mm from the atmosphere can cause explosion or fire. phantom. Body SAR was also performed with the headset attached and Do not disassemble, crush, nuncture, shred or otherwise attempt to change the form of your battery. Do not dry a wet battery or damn battery with an appliance of

) The antenna in the packing is unique, please do not optional change.

Warnings

2) For safe operation, the antenna for the product shall be least 25mm a way from your face, when speaking.

damaged antennacomes into contact with your skin, a minor burn

Test position and configuration HeadSAR was performed with the

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

Do not expose the charger to outside environment. Chargers should only be used indoors. Do not operate or disassemble the charger. Do not use a charger that has been dropped or damaged in any way

Turn the radio off when charging the battery.

Battery Charger Safety Instructions:

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

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 qualified electrician. An improper condition can result in a risk

of electric shock.

GUARANTEE CARD Model Number:_

Transmit and Receive Procedure

To transmit (talk), press the Push-to-Talk (PTT) button in front

Note: R Fexposure decreases with increasing distance from the

Your two-way radiocontains a transmitter and a receiver. To control your exposure and ensure compliance with the general opulation/uncontrolled environment exposure limits, always

Transmit no more than 50% of the time. To receive calls, release the PTT button.

néthodes de mesnre et procédures spécifiéés dans IEEE 1528 et Please refer to the following websites and Guidance documents for more information on what RF energy exposure is and how to distance minimale de 1 cm entre l'émetteur et votre corns. Cet appareil et sa ou ses antennes ne doivent pas être co-localisés o

adhere to the following procedure:

-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

exposure limits: RSS-102, Safety Code 6 and www.who.int/en/

Serial Number:

Dealer: ____

Purchasing Date: _

User's Name:

itia invalid. b.Ourlocalrepairingagent

Address: ___PostCode: I.This guarantee card to be kept by the user,norepieniShmentif lost. 2. This guarantee card to be filled & chopped by the dealer, or 3.Don'talter the guarantee card,plaase confirm theserial number on the guiarantee cardle same as that on the machine. 4. One-wear quarantee, charger, battery, earphone, antenna and can cable are not underquarantee. a.Gotothe shopwhere you buy the mechine

5. The user can get rapairing service from the following ways:

__Telephone:___

10

Telephone: