RETEVIS

US

RT628
Kids Walkie Talkie
User's Guide

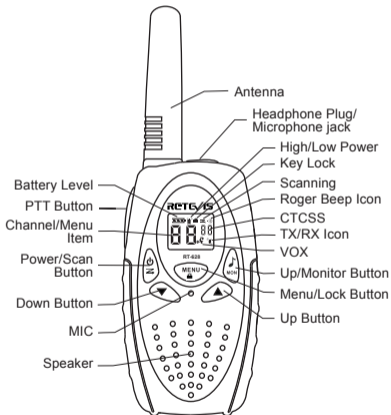|	
⚠ CAUTION	Read this operating instruction carefully before using your Retevis RT628 two way radio, including the part on Product Safety and RF Energy Exposure Compliance

Labels on diagram:
- Antenna
- Headphone Plug/Microphone jack
- High/Low Power
- Key Lock
- Scanning
- Roger Beep Icon
- CTCSS
- TX/RX Icon
- VOX
- Battery Level
- PTT Button
- Channel/Menu Item
- Power/Scan Button
- Down Button
- MIC
- Speaker
- Up/Monitor Button
- Menu/Lock Button
- Up Button

Product Features

TECHNICAL PARAMETERS	
Product number	RT628
Frequency range	FRS
Channel number	22
Channel spacing	12.5KHz
Working voltage	3.6V
Frequency stability	±2.5ppm
Operating temperature range	-20℃~50℃
The antenna impedance	50Ω
Overall dimensions	160*55*28mm
Weight	90g

TRANSMITER	
Rf power	0.5W
Modulation method	11kΦF3E
Noise and harmonic	<-40dB
Residual Radiation	≤-35dB
Modulation distortion	≤7%
Maximum deviation	≤±5KHz

RECEIVER	
The sensitivity	≤0.2uV
Modulation receiver bandwidth	±5KHz
Adjacent selective	≥40dB
Intermodulation interference resistance	≥35dB
Spurious response inhibition	≥70dB
Audio output power	≥300mW
Audio distortion	≤8%

Product Features

Channel	Frequency	Channel	Frequency
1	462.5625	12	467.6625
2	462.5875	13	467.6875
3	462.6125	14	467.7125
4	462.6375	15	462.5500
5	462.6625	16	462.5750
6	462.6875	17	462.6000
7	462.7125	18	462.6250
8	467.5625	19	462.6500
9	467.5875	20	462.6750
10	467.6125	21	462.7000
11	467.6375	22	462.7250

Getting Started

Installing the AA Batteries
Your radio uses 3 AA Alkaline batteries.
1. With the back of the radio facing you, there are a secret button to release the battery cover and remove.
2. Install 3 AA Alkaline batteries as shown on the inside of the battery compartment.
3. Re-cover the battery cover and press down to secure. The walkie talkie can use a NiMH rechargeable battery instead of 3 AA Alkaline batteries.

Battery Meter
The battery icon shows the battery charge level, ▰▰▰ from full to empty ▭ . When the battery is empty, the radio chirps periodically after releasing (PTT) . The radio powers off when the voltage drops below a predetermined level to protect the rechargeable battery life.

Note: Remove the batteries before storing your radio for extended periods of time. Batteries corrode over time and may cause permanent damage to your radio.

Turning Your Radio On and Off
After you installed batteries turn the radio on, the radio chirps and the display briefly shows all feature icons available on your radio. The display then scrolls through the available channels and Interference Eliminator Codes. Press and hold ⏻ button turn the radio off.

Setting the Volume
- Press the up button to increase the speaker volume.
- Press the down button to decrease the speaker volume.
- The speaker volume level is indicated by the number 1-8 displayed.

Setting a Channel
1. With the radio on, press (☎) , the current channel flashes.
2. Press up or down button to set the channel.
3. Press PTT to confirm and save the channel setting.

Control Buttons
Use ⏻ / ⇄ to:
- Turn radio on/off
- Scan

Use UP/DOWN to:
- Adjust volume
- Scroll through menus

Use ♪/MON to:
• Transmit call tone

Use 🔒 to:
• Select menu options
• Exit the menu (when pressed while in a menu)
• Lock and unlock the keypad (when held down and not in a menu)

Use (PTT) to:
• Talk
• Save a setting

Talking and Listening

To communicate, all radios in your group must be set to the same channel and Interference Eliminator Code. To talk, press and hold PTT. Hold the radio 2 to 3 inches away from your mouth when speaking. When you finished speaking, release PTT (press to talk, release to listen).

Checking the Channel Before Transmitting

Your radio has 22 channels shared on a "take turn" basis. For uninterrupted communication, do not talk on a channel if someone else is currently talking on it. To check for activity on a channel before you talk, press and hold ♪/MON. If you hear static, the channel is clear to use.

Special Features

Interference Eliminator Code

Interference Eliminator Codes help minimize interference by providing you a choice of code combinations. To set the code for a channel:
1. Press 🔒 twice, then the code starts to flash.
2. Press UP or DOWN to select the code 0-121 or 121-0.
3. Press PTT to save the code setting.
You can set a different code for each channel using this procedure.
Note: You must set the Interference Eliminator Code to 0 if you want to communicate with another radio which didn't set up the Interference Eliminator Code.

Push to Talk Timeout Timer

To prevent accidental transmissions and save battery life, the radio emits a continuous warning tone and stops transmitting if you press PTT for 180 continuous seconds.

Locking the Keypad

To avoid accidentally changing your radio settings, press and hold 🔒 for 3 seconds or until 🔒 displays. You can turn the radio on and off, adjust the volume, receive, transmit, send a call tone, and monitor channels. All other functions are locked.
To unlock the radio, press and hold 🔒 for 3 seconds or until 🔒 is no longer displayed.

Scanning Channels

Use scanning to monitor channels for transmissions or to find someone in your group who has accidentally changed channels. To start scanning, briefly press and release ⇄. The scan indicator ⇄ displays. When the radio detects channel activity, it stops scanning

and you can hear the transmission. To respond to the transmission, press PTT within 5 seconds,the channel will be confirmed

Scan Advance
If the radio stops scanning on a channel you do not want to listen to, briefly press and release or to resume scanning for the next active channel.

Removing Channels from the Scan List (Nuisance Delete Feature)
To remove a channel so the radio does not stop on it while scanning, press and hold UP or DOWN for at least 3 seconds, then release. This channel temporarily removes the channel from the scan list.
To restore the channel, turn the radio off and then back on.
Note: You cannot remove the channel of your radio setting when you started the scan (called your home channel)

Setting and Transmitting Call Tones
Your radio can transmit different call tones to other radios in your group so you can alert them that you want to talk.
To set a call tone:
1. With the radio on, press $\binom{m}{a}$ 3 times. The current call tone setting flashes $\binom{R}{}$ displays.
2. Press UP or DOWN to change and hear the call tone.
3. Press $\binom{m}{a}$ or $\binom{PTT}{}$ to set the new call tone.
To transmit your call tone to other radio , you need to set to the same channel and Interference Eliminator Code as your radio, then press ♪ .

Note: Setting the call tone to 0 disables the call tone feature.

Voice Activation (VOX)
Voice activation (VOX) allows you to talk hands-free.
1.Press PTT and ⏻ , then turn on the radio
2. When Turn the radio on. $_{_b}\xi$ displays.
3. To transmit, speak into microphone. There is a short delay between the time you start talking and when the radio transmits.
4. To receive, stop talking.
To turn VOX off, press PTT.

Setting the Sensitivity Level
Adjusting your radio's sensitivity level helps minimize the possibility of unintended noises triggering a transmission and helps the radio pick up soft voice.
1. Press $\binom{m}{a}$ until $_{_b}\xi$ displays.
2. Press UP or DOWN to select the sensitivity level:
   3 = **High Sensitivity**
   for quiet environments
   2 = **Medium Sensitivity**
   for most environments
   3 = **Low Sensitivity**
   for noisy environments

Setting the double channel monitor
1. Press $\binom{m}{a}$ five times until CH displays, the current channel flashes.
2. Press UP or DOWN to set the monitor channel.
3. Press PTT to save the double channel monitor setting.
4. Then the double channel will flash.

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Setting the SQUELCH Level 1-6
1. Press 🔘 six times or until SL displays.
2. Press UP or DOWN to select the receive sensitivity level.

  01 = **High receive Sensitivity**
  02~05 = **Medium receive Sensitivity**
  06 = **Low receive Sensitivity**

Setting the TX POWER LO/HI
1. Press 🔘 seven times until pr displays.
2. Press UP or DOWN to select the LO or HI level.
3. Press PTT to save the TX POWER LO/HI setting.

Safety and General Information

Important Information on Safe and Efficient Operation Read. This Information Before Using Your Radio
The information provided in this document supersedes the general safety information contained in user guides published prior to July 2000.

Transmit and Receive Procedure
Your two-way radio contains a transmitter and a receiver. To control your exposure and ensure compliance with the general population/uncontrolled¹ environment exposure limits, always adhere to the following procedure:
• Transmit no more than 50% of the time.
• To transmit (talk), press the Push to Talk (PTT) button.
• To receive calls, release the PTT button.
Transmit no more than 50% of the time, or less, is important because the radio generates measurable RF

energy exposure only when transmitting (in terms of measuring standards compliance).

Exposure to Radio Frequency Energy
Your radio is designed to comply with the following national and international standards and guidelines regarding exposure of human being to radio frequency electromagnetic energy:
Two-Way Radio Operation
When using your radio as a traditional two-way radio, hold the radio in a vertical position with the microphone one to two inches (2.5 to 5cm) away from the lips.

Facilities
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 may be using equipment that is sensitive to external RF energy.

Aircraft
When instructed to do so, 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.

Potentially Explosive Atmospheres
Turn off your radio prior to entering any area with a potentially explosive atmosphere. Do not remove, install, or charge batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.
Note: The areas with potentially explosive atmosphere

referred to above include fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or praticles, 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.

Operational Cautions

Antennas

Do not use any portable radio that has a damaged antenna.
If a damaged antenna comes into contact with your skin, a minor burn can result.

Batteries

All batteries can cause property damage and/or bodily injury such as burns if a conductive material such as jewelry, keys, or beaded chain touch exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects.

- Battery Charger Safety Instructions
1. Do not expose the charger to rain or snow.
2. Do not operate or disassemble the charger if it has received a sharp blow, or has been dropped or damaged in any way.
3. Never alter the AC cord or plug provided with the unit. If the plug will not fit the connector, have the proper connector installed by a qualified electrician. An improper condition can result in a risk of electric shock.
4. To reduce the risk of damage to the cord or plug, pull the plug rather than the cord when disconnecting the charger from the AC receptacle.
5. To reduce the risk of electric shock, unplug the charger from the connector before attempting any maintenance or cleaning.
6. Use of an attachment which not recommended, may result in a risk of fire, electric shock, or personal injury.
7. Make sure the cord is located where it will not be stepped on, tripped over, or subjected to damage or stress.
8. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of 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.
   • The extension cord is properly wired and in good electrical condition.
   • The cord size is 18 AWG for lengths up to 100 feet, and 16 AWG for lengths up to 150 feet.

Annex I

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.

Guarantee	
Model Number:	
Serial Number:	
Purchasing Date:	
Dealer:	
Telephone:	
User's Name:	
Telephone:	
Country:	
Address:	
Post Code:	
Email:	

Warnings

RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE FOR PORTABLE WALKIE TALKIE

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 walkie talkie uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. It uses radio frequency (RF) energy or radio waves to send and receive calls. RF energy is one form of electromagnetic energy. Other forms include, but are not limited to, sunlight and x-rays. RF energy, however, should not be confused with these other forms of electromagnetic energy, which when used improperly, can cause biological damage. Very high levels of x-rays, for example, can damage tissues and genetic material.

Experts in science, engineering, medicine, health, and industry work with organizations to develop standards for safe exposure to RF energy. These standards provide recommended levels of RF exposure for both workers and the general public. These recommended RF exposure levels include substantial margins of protection.

All Retevis walkie talkie 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 walkie talkie. 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 walkie talkie 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 walkie talkie 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.

Radio License
Governments keep the radios in classification, most of the classified walkie-talkie need to get local government License, and operation is allowed. The detailed classification and the use of your two radios, please contact the local government radio management departments. For the following specified classification: the USA FRS, Australian CB, the individual license is not required.

Compliance with RF Exposure Standards (If appropriate, Reference to the actual product's Safety Marking)
Your Retevis walkie talkie is designed and tested to comply with a number of national and International standards and guidelines (listed below) for human exposure to radio frequency electro-magnetic energy.

FCC ID
The FCCID means: This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational /controlled RF exposure environments at operating duty factors of up to 50% talk-50% listen and is approved for occupational use only.

IC ID
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) This device may not cause interference, and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
In terms of measuring RF energy for compliance with these exposure guidelines, your radio generates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.
Note: The approved batteries, supplied with this radio, are rated for a 5-5-90 duty factor (5% talk-5% listen-90% standby) even though this radio complies with FCC occupational exposure limits and may operate at duty factors of up to 50% talk.

RF energy exposure standards and guidelines (if appropriate)

Your Retevis walkie talkie complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission (FCC), Code of Federal Regulations; 47 CFR part 2 sub-part J.
- American National Standards Institute (ANSI) / Institute of Electrical & Electronic Engineers (IEEE) C95. 1-2005
- IEEE Std. 1528:2013 and KDB447498, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- Institute of Electrical and Electronic Engineers (IEEE) C95.3-2002
- International Commission on Non-Ionizing Radiation Protection (ICNIRP)
- Ministry of Health (Canada) Safety Code 6 & Industry Canada RSS-102.
- International Electrotechnical Com-mission IEC62209-2:2010]

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 50% 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 occupational/controlled environment RF exposure limits.
- If you are not using a body worn accessory and are not using the radio in the intended use position, in front of the face or at the body in the PTT mode or alongside the head in the phone mode, then ensure the antenna and the radio are kept 2.5 cm (one inch) from the body when transmitting. Keeping the radio at a proper distance is important because RF exposures decrease with increasing distance from the antenna.

Hand-held Mode

- Hold the radio in a vertical position with the microphone (and other parts of the radio including the antenna) atleast 2.5cm

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(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 Burns
Small Parts. Not for children under 3 years.

Turn off your radio power in the following conditions:
• 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 (inflammable gas, dust particles, metallic powders, grain powders, etc.).
• Turn off your radio while taking on fuel or while parked at gasoline service stations.

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.

Note:
- Pacemakers
Defibrillators or other Implanted Medical Devices Persons with pacemakers, Implantable Cardioverter-Defibrillators (ICDs) or other active implantable medical devices (AIMD) should:
• ALWAYS keep the radio more than 15cm from their pacemaker when the radio is turned on.
• 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 they have 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 their body from the implantable device to minimize the potential for interference.

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- Hearing Aids
Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

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

⚠ **WARNING**

Protect your hearing:
• 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.
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.

⚠ **WARNING**

Avoid Burns
- 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.

- 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.

- Use of Communication Devices While Driving
• Always check the laws and regulations on the use of radios in the countries and areas where you drive.
• Give your full attention to driving and to the road.
• If available, use the hands-free facility.
• If driving conditions or regulations require it, pull off the road and park before making or answering a call.

WARNING

Approved Accessories
• 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

Shenzhen Retevis Technology Co.,Ltd
Web:www.retevis.com
E-mail:kam@retevis.com
Facebook : facebook.com/retevis