

(US)

RA18

Kids Walkie Talkie

User's Guide



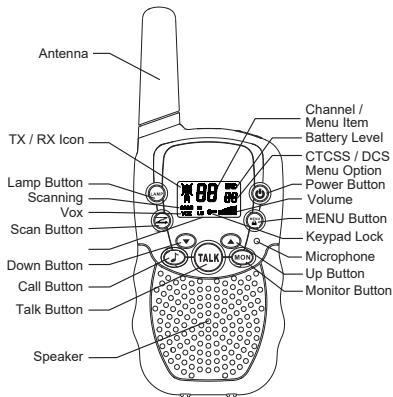
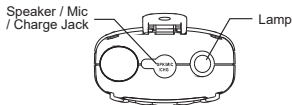
Read this operating instruction carefully before using your Retevis RA18 two way radio, including the part on Product Safety and RF Energy Exposure Compliance

Product Inspection

Before initial use, please check if the product inside the box is in good condition or not. If there are any signs of damage or missing parts, please feel free to contact the carrier or seller.

Item Included	Quantity(Pcs)
Walkie Talkie	2
Belt Clip	2
User's Guide	1

Radio Parts and Controls



Product Features



Each unit takes 4 AAA batteries

Batteries are not included in the package. You need to prepare batteries first to get the units work, and we recommend you always using high quality AAA Alkaline batteries.

Belt Clip

Kids can clip the units to their pocket or elsewhere while they are on the go.

Call Tone Button

By pressing button , you can inform other radio users in your group that you want to talk or have finished talking. When button  is pressed, a tone would be transmitted.

LCD Display

Various information accessible at one glance, including channel number, CTCSS code, volume level and other status of the radio.


On/Off Power Button

Press and hold this button  to turn on/off the radio.

Lamp Button

By pressing "LAMP" button to turn on/off the flashlight. Convenient for those who use the radio at night.

Scan Button

Press button  to detect channels with activities or stop scanning.

MENU/ Button

Switch on/off the functions you want to start or stop. You can also lock the channel by this button.

Monitor Button

Enable you to continuously monitor weak signals.

Talk Button

Press and hold this button to talk and let go to listen.

Up and Down Key

To select channels, set CTCSS code, adjust volume level, listening volume and other usage.

Speaker/Mic/Charger Jack

You can use the unit with external speaker/ Mic, or give the unit a charge through this jack.

Product Features

TECHNICAL PARAMETERS	
Product number	RA18
Frequency range	FRS
Channel number	22
Channel spacing	12.5KHz
Working voltage	4.8V
Frequency stability	±2.5ppm
Operating temperature range	-20℃~50℃
The antenna impedance	50Ω
Overall dimensions	140*55*28mm
Weight	79g
TRANSMITTER	
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%

Installation

How to assemble and remove the belt clip

Slide the clip into the slot on the back of the radio until it is snapped into place.

-To remove

Gently pull the lock tab, and then push up the belt clip to remove it from the radio.

How to install or replace batteries

Make sure the radio is turned off;

Remove the belt clip;

Slide and lift the battery compartment cover;

Insert 4 AAA batteries with correct polarity into per radio;

Close the battery cover and attach the belt clip.

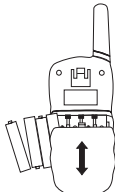
(Note: Please remove the batteries if the units are not used for a long time)

How to attach the strap to the belt clip

Thread the strap through the hole on the belt clip; Thread the other end of the strap through the string, then pull it to secure (See Pic 3).



Pic 1




Pic 2



Pic 3


Operation

Turning on the radio

Press and hold button  for three seconds. A short audible beep and a display of the LCD screen shows that the radio is on.



Turning off the radio

Press and hold  until an audible beep is heard and the screen disappears.

Adjusting volume level

Use the up/down key to increase or decrease the volume. And you can always find the volume level indicator in the lower right corner of the screen.



Receiving

The radio is ready to receive signals when it is tuned to the channel that has the same frequency and CTCSS code as the one that is transmitting. To receive signals, you also need to leave this very radio's TALK button untouched. When signals have been received on the current channel, RX icon will appear in the top left corner of the screen.

Transmitting

Press and hold "TALK" button to talk to another person. Release the button for response.


TX Icon will appear in the top left corner of the screen when radio is transmitting.

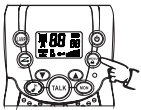
To get maximum clarity, please speak directly to the microphone and hold the mic 2 inches from your mouth.

Note: RA18 can only work together when the units are tuned to the same channel and have the same CTCSS code on that channel.



Channel Lock

Press and hold MENU button until icon  appears on the screen, which indicates that the radio is locked to the current channel,

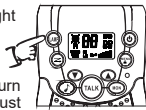


namely, you cannot switch it to another channel under this status. To unlock the channel lock function, press MENU button again for about 2 seconds.

Flashlight

The radio is equipped with flashlight function, which will bring a lot of convenience in the dark.

Press "LAMP" button to turn the flashlight on. And the process to turn it off is the same as turning it on, just press "LAMP" button, that's it.



Select Channel

These units have 8 Channels available for US and Canada market.

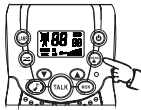
To select any among the 8, you need press MENU button once, then the channel number on the screen will blink;

Using up/down key to select the channel you want to communicate on;

Press TALK button to choose the desired channel and return to normal mode. Or press MENU button to confirm the channel and go to set CTCSS code.

Set CTCSS Code

Within a channel, you can partly avoid interference from other radios by setting CTCSS code (01-38) while code 00 refers to no privacy code is selected. To select any among the 38, you need press MENU button twice, then the CTCSS code on the screen will blink;



Using up/down key to select the code;
Press TALK button to confirm the desired code and go back to normal mode.

Note: RT618 can only work together when the units are tuned to the same channel and have the same CTCSS code on that channel.

VOX for Hands-free

When VOX is activated, there is no need to press TALK button to talk. Tap MENU button three times, then "VOX" and VOX sensitivity level (OF,01,02,03) will be displayed on the screen.

You can adjust VOX sensitivity level by pressing up/down key.

Note: OF means VOX function is inactivated; 03 is the highest sensitivity setting and 01 the lowest. Therefore, level 03 is recommended when the radio is used in quiet surroundings and 01 for noisy environment.



Select Call Tone

To inform other radio users in your group that you want to talk or you have finished talking by transmitting a tone to their radios.


Press MENU button four times, then "CA" and call tone number (01, 02, 03, 04, 05, 06, 07, 08, 09, 10) will blink on the screen;
Using up/down key to select the tone you prefer;
Press TALK button to confirm the desired tone and go back to normal mode.




As to how to send the desired call tone to another party, please go and check "Call another party" on Page.

Channel Scan

Convenient to detect channels with activities.


When button  is tapped, the radio will automatically scan for channels with activities. The scanning will stop when channels with activities are found, and the radio will play what it detects on that channel.

To continue the scan, just press button .

Note: When a channel with activities is detected, you can join the conversation and back away from the scan by pressing TALK button.

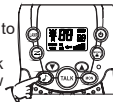


Call Another Party

Press button  to transmit a call tone to other radios in your group so that they can be prepared when you want to talk or you have finished talking. (See how to select call tone on Page)

Note: Another party can only receive the call tone when the following requirements are met at the same time.

1. The receiving unit is on the same channel and shares the same CTCSS code as the unit that sends the call tone;
2. The receiving unit is within the communication range.



Monitor

To receive weak signals from other radios in your group, all you need to do is press MON button.

If you want to continue the monitoring, please press MON button for at least 3 seconds. And press MON button again to stop.



Battery Level Indicator

Displayed in the lower right corner of the screen, convenient to know how much battery power is remained.

When the indicator on the screen blinks, it means that the batteries need to be changed (when using regular AAA batteries) or charged (when using NiMH rechargeable batteries).

External Headset/Microphone Jack

The unit support external headset connection. To talk or listen through an external earpiece, you need to remove the rubber hole cap at the top of the unit, insert the favorable/suitable headphone plug into the accessory jack, and then put on your earpiece.



Charging(Optional)

If you want the units to be rechargeable, please use rechargeable AAA batteries (not included).

Then you can charge the units by plugging the charger (not included) connector into the accessory jack and then connect the other end of the charger to a general socket or somewhere else alike. Below is information on specially designated charger and rechargeable AAA batteries.



Note

When external earpiece is applied Please adjust volume level accordingly.

Turn the radio off immediately if your ears feel uncomfortable or itchy with headsets on.

Don't use the units in places that might cause explosion or fire

Such as gas stations, unshielded electrical installations and other unsafe places.

Simple Maintenance Tips

Gently wipe the dust or dirt off with a dry soft clean cloth. Don't use any cleaning chemicals, as they can damage the units.

When the radio is dropped into water, turn it off immediately. Dry the outside of the radio with a clean and soft cloth. Remove batteries and dry them, too. Put the unit in a cool dry place to dry out all moisture.

In case that any other problem or malfunction occurs during your use, please don't disassemble the radio's circuit or hardware by yourself. You are welcome to send the unit back to the seller or contact our customer service for help.

Troubleshooting

1. Couldn't turn the units on
 - A. Check if batteries are installed properly;
 - B. Check if batteries need to be changed (when using regular batteries), or charged (when using NiMH batteries)
2. When reception or transmission is poor,
 - A. Increasing volume level; Pressing Mon button to receive weak signals

B. Check battery level

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Product Features

Serial number	Frequency	Power
1	462.5625	0.5W
2	462.5875	0.5W
3	462.6125	0.5W
4	462.6375	0.5W
5	462.6625	0.5W
6	462.6875	0.5W
7	462.7125	0.5W
8	467.5625	0.5W
9	467.5875	0.5W
10	467.6125	0.5W
11	467.6375	0.5W
12	467.6625	0.5W
13	467.6875	0.5W
14	467.7125	0.5W
15	462.5500	0.5W
16	462.5750	0.5W
17	462.6000	0.5W
18	462.6250	0.5W
19	462.6500	0.5W
20	462.6750	0.5W
21	462.7000	0.5W
22	462.7250	0.5W

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.

Radio License

Governments keep the radios in classification, business two-way radios operate on radio frequencies that are regulated by the local radio management departments (FCC, ISSED, OFCOM, ANFR, BFTK, Bundesnetzagentur...). To transmit on these frequencies, you are required to have a license issued by them. The detailed classification and the use of your two radios, please contact the local government radio management departments.

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

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 condition that this device does not cause harmful interference. (Licensed radios are applicable);

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:

•(If applicable)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.

•(If applicable)This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.retevistoys.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(if applicable)

- 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 (if applicable):

- 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 RF exposure limits.

Hand-held Mode(if applicable)

- 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(if applicable)

- 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. 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

Forbid



WARNING

- 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.
- 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.Retevistoy.com>

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, Please Contact Us:
TEL./Whatsapp/Skype: +8615038106642
Email: info@retevistoy.com
Facebook: <https://www.facebook.com/retevistoy.com>
Website: <https://retevistoy.com/>
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.



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MADE IN CHINA