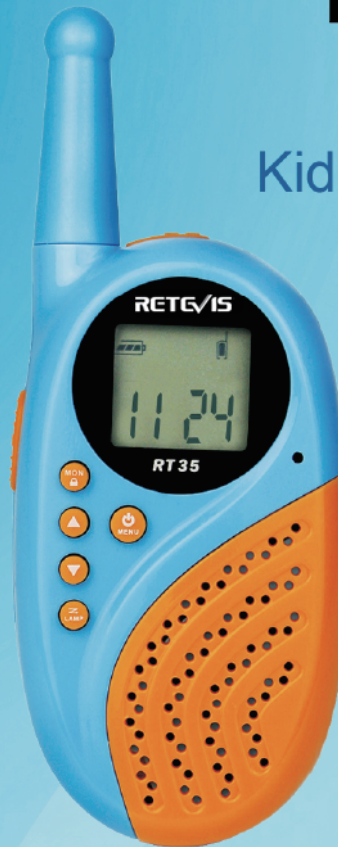# RETEVIS

RT35

Kids walkie talkies

User's manual

Model RT35

Precautions

This unit conforms to telecommunications management standards, please observe the following rules when using.

1. When Using this machine, you should not cause harmful interference and must accept any received signal.

2. Any operation without permission is illegal, and maybe violet the telecommunications management standards.Such as: change the frequency, change the transmit power, extend the antenna, and so on.

3.This machine cannot be used in a hazardous environment, because it may cause an explosion or fire.The hazardous environment include: gas stations, hospitals, airports, the place without electrical shielding and so on.

4.Do not use soft cloth with detergent or solvent to wipe or clean the machine, use the dry, acid-free soft cloth only.

5.In order to ensure the best voice quality, please keep 5cm distance between your mouth and the machine and use your normal voice intensity. To get a better voice quality, please turn the antenna upward.

6.The battery of this machine has an internal protect function.

Battery Usage

The mini walkie-talkie built-in lithium ion battery. The fittings include USB charger that can charge the lithium battery, the charging method is as follows:

1.The charging jack is at the right side of the machine.

2.Connect the USB charger to a standard power socket.

3.Then connect the USB charger to the charging jack or headphone jack. During charging, the battery indicator will be cycle moving. And when charging complete, the cycle moving will be stopped.

Preface

Welcome to use this mini walkie-talkie, please read this user manual carefully in order to understand all the operating function.

Walkie talkie	2
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Menu mode LCD instructions

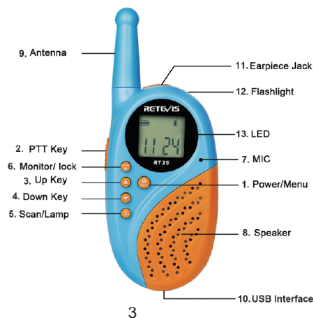| indicator	name	content
218	Channel / programming / clock / volume / level	Channel programming / clock / volume level. When the volume level is displayed in the number of standby Press up or down key
188	CTCSS / DCS programming /volume	When the minutes standby, press PPT key to display after the current CTCSS / DCS programming number. Standby display the volume indication press up key or down key.
▱▱	Battery power display	Show the number of cells, the more power the more foot: High power ▱▱▱ low battery ▱
«ʕ	Hands - free instructions	Display when the unit is in the VOX mode of operation.
🔔	Alarm indication	Display when the unit is in the alarm mode of operation.
▯	Open the intercom function indication	Display when the unit is in the open mode. When close will not show this icon.
⚡	Scanning instructions	Display when the walkie-talkie under scan function.

ITEM DESCRIPTION

Number	Name	Description
1	Power/Menu Button	Long press this button can open / close radio; short press to enter the radio function setting.
2	PTT key	Press and hold this button to transmit information quickly press twice to send calling sound.
4	Up key	Use this button to adjust volume or function setting choosing.
5	Down key	Use this button to adjust volume or function setting choosing.
6	Scan/Lampe	Long press to enter the scanning channel, short press to enter the illumination.
7	Monitor/Lock button	Long press to enter the inter-lock, short press enter monitor function.
8	MIC	Built-in microphone.
9	Speaker	Built-in speaker.
10	Antenna	Enhanced signal reception and emission.
11	USB Interface	It is a walkie-talkie charging interface.
12	Earpiece Jack	It is a walkie-talkie headset jack.
13	Flashlight	It is a walkie-talkie lights.
14	LED	It is a walkie-talkie LED.

Notice:
This radio come with a dedicated charger, To avoid damage your radio and lithium ion batteries, please do not use other chargers. Please do not transmit when charging.
The new battery should be charger around 12hours when use it first time..

9. Antenna
11.Earpiece Jack
12. Flashlight
13. LED
2. PTT Key
7. MIC
6. Monitor/ lock
3. Up Key
1. Power/Menu
4. Down Key
5. Scan/Lamp
8. Speaker
10.USB Interface

The main features of walkie-talkie

1.A plurality of selectable channels.
2.Automatic squelch.
3.Auto save power.
4.It has an internal voice intercom (speakerphone) function.
5.Having a channel scan function.
6.24-hour time display.
7.Alarm reminders appear.
8.Backlit display.
9.Use BL-5B lithium batteries

Battery low power tips

When the unit is low battery in the talk mode and standby mode, power indication start Flashes. Remind you to recharge.

Using the walkie-talkies

1.Press and hold the Power / Menu button about 3 seconds, the unit will power on to speak mode, The display shows the icon under intercom mode.
2.Press the Power / Menu button to access the function settings.
Activated icon will begin blinking.
Press repeatedly this button, explore other menu functions until back to the intercom mode. Every time you press the Power / Menu button, the function or icon will show on the screen.
3.After activate a function icon, press the up or down key to select menu options.
4.Press PTT-button to save and back to standby.

Select channel

1.When the radio is Standby, press the Power / Menu button again until the current channel starts flashing on the LCD screen, you can change the Channel.
2.Press the up or down key to select the channel number.
3.Press the Power / Menu button to save the settings and return to the receiving status.
4.Press the PTT-button to save and return to the receiving status.

CTCSS/DCS

Select CTCSS/DCS which allows you to receive calls from members of the same group (same mute code) issued, avoiding the same frequency interference from other users.
Note: CTCSS / DCS cannot make your talking content keep secret, it can only make you unable to receive calls from other CTCSS / DCS users.
1.When standby, press the Power / Menu button twice, until the mute code of current channel starts flashing, thus you can reset status of CTCSS/DCS.
Press the up key or down key to select the privacy code. Long press the up key or down key to select the privacy code quickly.
2. Press the PTT / CALL to save the settings. Or press the power / menu button to enter next function option.

Channel scan

Scan fucntion lets you scan all channels occupancy.
1.When standby, press the Scan button to activate scan function, the machine satarts to scan all channel activities), when there are voices in scanned channel, it will stay 4~5s in this channel, then continue to scan next channel.)

2Press theScan button to exit the channel scan.

Transmission and reception
1.On receiving status once power on.
2.Press the PTT key,and use the normal voice to speak, there should be 5 cm between mouth and microphone.
3.After speaking, release the speaking PTT key, the machine is in the receiving status.

Adjust the volume
This machine has eight adjustable volume. Press the up or down key to adjust the volume when the walkie talkie is under standby.

Call Tone
This machine has 10 call alerts sound available.

Call Tone Setting
1. When Standby, repeatedly press the Power / Menu key to call setting   ⌈ Я   on the LCD screen.
2.Press the up or down key to select a call tone.
3.Press the Power / Menu button to save the settings and then enter other function setting, or press PTT key to save and return to standby.

Send call alerts sound
1.When you need to send call alerts, press the PTT key twice quickly, Call alarm will be send automatically.
2.When call alerts sound transmit complete, you can hear a short confirmation sound, the unit will be back to radio standby status.

Hands-free function
The machine is equipped with hands-free function, no need to press PTT key , it can automatically send voice.
1.When Standby, repeatedly press the Power / Menu button until the LCD hands-free function label   ₀ᷓ   appears.
2.Press the up or down key to switch hands-free on / off function, alternately shows "0,1, 2,3", Appears on the display Hands-free indicator   ₀ᷓ   . (0: close hands-free function; 1: noisy environments; 2: Under normal circumstances use: 3: quiet environments)

High/Low Power Selection
Standby, repeatedly press the Power / Menu button until the display the flashing LO or HI (LO for small power 0.5W; HI for high-power 1W) .Then, click PTT to save.

Use earplugs (optional)
1.The walkie-talkie is set to non-hands-free mode.
2.Open the headset/charger jack on the side of the machine. Insert the headset.adjust the microphone position

Automatic power saving feature
The machine is equipped with a unique circuit that can extend battery life， If you do not receive any signal transmission within 5 seconds, it will automatically switch to energy-saving mode, in this mode, you can still receive the signal)

Automatic squelch
The machine has automatic squelch function, provide high-quality voice effects, you can hear more clearly.

Backlit display
Press any key, the LCD backlight is automatically displayed for five seconds.

Set the time
The unit has a 24-hour clock function set as follows:
1.Standby, press the Power / Menu button eight times until the hour digits displayed.
2.Press the up or down key to increase or decrease hour digits,
time can be set from 0 to 24 hours.
3. Press the power / menu button until the minute digits displayed.
4.Press the up or down key to increase or decrease the minute digits.
5.Press the power / menu button to enter other feature settings or press PTT key to save.

Set the alarm
1,Standby, repeatedly press the Power / Menu button until the alarm symbol   🔔   appears on the LCD screen. Press the up or down key to select turn off or turn on the alarm function.
2.Press the Power / Menu button to enter the set alarm hour time setting. Hours start flashing, press the up key or down key to set alarm hours. Press the Power / Menu button starts blinking minutes, Press up key or down key to set alarm minutes.
3.Press PTT key to save.

Key tone
1.Standby, press the Power / Menu button seven times press up key or down key to select turn on or turn off the key tone..
2.Press PTT key to save.

Channel frenquency

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

EU channel Frequency				
Channel	1	2	3	4
Fre quency	446.00625	446.01875	446.03125	446.04375
Channel	5	6	7	8
Fre quency	446.05625	446.06875	446.08125	446.09375

Malfunction and troubleshooting

Malfunction	Troubleshooting
No power supply	1. The battery may be low. 2. Use the special charger to charge the battery. 3. Battery may be damaged, replacement of the lithium-ionbattery.
Received signal Poor	1. Press the up key to increase the volume. 2. The received signal may be weak signal, otherwise out of range. 3. Check the antenna. For getting the best call quality, make the antenna up.
We cannot change the channel	1. When you at channel mode, press the power / menu button until the channel number flashes up on the screen. 2. Press the up or down key to change the channel. 3. The battery may be low.
Reception range limited, sound distortion.	1. The battery may be low. If indicate low battery, recharge the battery. 2. Effective reception range affect by terrain and environmental . 3. Check the antenna. For getting the best call quality, make the antenna up. 4. the reception range of the car will be seriously affected by Shade trees, the plant building.
	6. When transmit a signal, keep 5 cm distance between the mouth and the microphone, speak in a normal voice. 7. When receiving signal, adjust the volume level. 8. The caller should maintain a minimum distance of 3 meters, even father. 9. If far away between caller and respondent, obstacle will be affect the signal transmission. If there noobstacle, communicate range can reach to 3km.

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Guarantee
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 communi-cations 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 mana-gement departments. For the following specified classification: the USA FRS, Australian CB, the individual license is not r equired.

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 transmi- tting 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 of 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 2.5 cm (one inch) away from the nose or lips. The antenna should be kept away from the eyes. Keeping the radio at a proper distance is important as RF exposure decreases with increasing distance from the antenna.

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

Electromagnetic Interference/Compatibility
Note: Nearly every electronic device is susceptible to electromagnetic interference
 (EMI) if inad-equately 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,
 hosp- itals 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,
Impla-ntable 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.

- 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.

Protect your hearing:
• Use the lowest volume necessary to do your job.
• Turn up the volume only if you are in noisysurroundings.
• 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.

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 whez 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 tothe 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.

Approved Accessories
• This radio meets the RF exposure guidelin-es 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