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› Retevis RT22 Walkie Talkies User Manual

Retevis RT22

Retevis RT22 Walkie Talkies User Manual

Model: RT22 | Brand: Retevis

1. INTRODUCTION

The Retevis RT22 Walkie Talkies are designed for reliable and efficient communication in various professional and personal settings. These compact, lightweight, and easy-to-use two-way radios offer clear audio, hands-free operation (VOX), and a durable design, making them suitable for business, office, school, church, restaurant, and retail environments. This manual provides essential information for the proper setup, operation, and maintenance of your RT22 radios.

2. WHAT'S IN THE BOX

Upon opening your Retevis RT22 package, you should find the following items:

- 10 x Retevis RT22 Two Way Radios
- 10 x Rechargeable Li-ion Batteries
- 10 x USB Cables
- 5 x Power Adapters
- 10 x Unique Belt Clips
- 5 x English User Manuals

Package details

10 x Retevis RT22 Two Way Radios



10 x Rechargeable Li-ion Battery



10 x USB Cable



5 x Adapter



10 x Unique Belt Clip



5 x English user manual



Figure 2.1: Package contents of the Retevis RT22 Walkie Talkies.

This image displays the complete set of items included in the 10-pack Retevis RT22 Walkie Talkie package, ensuring all necessary components for immediate use are present.

3. PRODUCT OVERVIEW

The Retevis RT22 radios are designed for portability and ease of use. They feature a slim, pocket-sized form factor with a short, fixed antenna and an integrated back clip for convenient carrying.

Easy to carry around

3.78*2.17*0.87 in

108g



Figure 3.1: Dimensions and weight of the Retevis RT22 radio.

This image highlights the compact and lightweight design of the RT22 radio, showing its dimensions and weight, which contribute to its ease of carrying and discreet use.

Keypad lock

Press and hold the "+" and "-" keys at the same time to lock the keys (only the PTT key can be used), and a "beep" sound will be heard. Press and hold the "+" and "-" keys again to turn off the key lock, and two "beeps" will be heard



Figure 3.2: Keypad lock feature on the Retevis RT22.

This image visually represents the keypad lock function, which prevents accidental changes to settings during operation.



Figure 3.3: Rear view of the Retevis RT22 with battery compartment.

This image shows the back of the RT22 radio with the battery cover open, detailing the battery compartment and product information labels.

4. SETUP

4.1. Battery Installation

1. Ensure the radio is powered off.
2. Locate the battery cover on the back of the radio (refer to Figure 3.3).
3. Slide the battery cover downwards or unclip it to remove.

4. Insert the rechargeable Li-ion battery into the compartment, ensuring the contacts align correctly.
5. Replace the battery cover and secure it.

4.2. Charging the Battery

The RT22 radios feature a convenient USB charging design. Use the provided USB cable and power adapter to charge the radios.

1. Connect the USB cable to the charging port on the radio.
2. Plug the other end of the USB cable into the power adapter, and then into a standard wall outlet. Alternatively, you can connect the USB cable to a computer or power bank for charging.
3. The charging indicator light on the radio will typically show red during charging and turn green when fully charged.
4. A full charge can provide 12 to 24 hours of operation, depending on usage.



Figure 4.1: Battery life and charging features.

This image illustrates the long-lasting battery life of the RT22, its 1000mAh capacity, and the USB charging capability,

along with features like standby time, low battery alert, and power saving.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

To power on the radio, rotate the power/volume knob clockwise until you hear a click and a tone. To power off, rotate the knob counter-clockwise until it clicks off.

5.2. Volume Adjustment

Rotate the power/volume knob to adjust the listening volume. Turn clockwise to increase volume and counter-clockwise to decrease.

5.3. Channel Selection

The RT22 radios have 16 pre-programmed channels. Use the channel selector knob (usually located near the antenna) to choose your desired channel. Ensure all radios in your group are on the same channel for communication.

5.4. Push-to-Talk (PTT)

To transmit, press and hold the large PTT button on the side of the radio. Speak clearly into the microphone. Release the PTT button to listen for a response.

5.5. VOX (Voice Operated Exchange)

The VOX function allows for hands-free transmission. When activated, the radio will automatically transmit when it detects your voice, without needing to press the PTT button. Refer to your specific user manual for instructions on how to activate and adjust VOX sensitivity.

5.6. Squelch Function

Squelch helps to suppress weak signals and background noise, providing clearer audio. The RT22 features an automatic squelch function. For optimal sound quality, ensure the volume is set appropriately.

Clear sound quality

Squelch; Easy volume setting



Figure 5.1: Clear sound quality and squelch feature.

This image illustrates the clear sound quality of the RT22, emphasizing the squelch function and ease of volume adjustment for optimal listening.

5.7. Keypad Lock

To prevent accidental button presses, you can lock the keypad. Press and hold the "+" and "-" keys simultaneously. A "beep" sound will confirm the lock. Only the PTT key will remain functional. To unlock, press and hold the "+" and "-" keys again until two "beeps" are heard.

5.8. CTCSS/DCS (Sub-codes)

The RT22 radios support Preset CTCSS/DCS codes for more secure group communication. These sub-codes filter out unwanted conversations from other groups using the same main channel. Your radios are pre-programmed with these settings for enhanced privacy.

Preset CTCSS/DCS

securer group communication



Figure 5.2: Secure group communication with Preset CTCSS/DCS.

This image visually explains the Preset CTCSS/DCS feature, highlighting its role in enabling more secure and private group communications.

5.9. License-Free Operation

The Retevis RT22 radios operate on FRS (Family Radio Service) frequencies, which are license-free in the United States. This means they are ready to use out of the box without requiring any special permits or licenses.

License-Free Two way radio

No license required Work out of box



Figure 5.3: License-free operation of the RT22.

This image confirms that the RT22 radios are license-free, allowing for immediate use upon purchase.

6. MAINTENANCE

6.1. General Care

- Keep the radio dry. Avoid exposure to rain, moisture, or liquids that may corrode electronic circuits. Note that the RT22 is not water resistant.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the radio. Wipe the surface with a soft, damp cloth.
- Avoid extreme temperatures. Do not store the radio in very hot or cold environments.
- Handle the radio gently. Do not drop, hit, or shake the radio. Rough handling can damage internal circuit boards and fine mechanics.

6.2. Battery Care

- Charge the battery fully before initial use.
- Do not overcharge or deep discharge the battery, as this can reduce its lifespan.
- If the radio will not be used for an extended period, remove the battery and store it in a cool, dry place.
- Replace batteries when their performance significantly degrades.

7. TROUBLESHOOTING

If you encounter issues with your Retevis RT22 Walkie Talkies, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on	Battery is dead or not installed correctly.	Charge the battery or re-install it, ensuring proper contact.
No sound or weak sound	Volume is too low; radios are on different channels; squelch level too high.	Increase volume; ensure all radios are on the same channel; check squelch settings.
Cannot transmit or receive	Radios are on different channels; out of range; battery low; keypad locked.	Verify channel settings; move closer to other radios; charge battery; unlock keypad.
Short communication range	Obstructions (buildings, hills); interference; low battery.	Move to an open area; avoid sources of interference; ensure battery is fully charged.

If the problem persists after attempting these solutions, please refer to the Warranty & Support section for further assistance.

8. SPECIFICATIONS

Below are the technical specifications for the Retevis RT22 Walkie Talkies:

Feature	Specification
Model Number	RT22
Item Weight	Approximately 4 pounds (for 10-pack)
Product Dimensions (single radio)	0.83"D x 2.2"W x 5.35"H
Batteries	10 Lithium Ion batteries required (included)
Number of Channels	16
Special Feature	Lightweight, pocket size, crystal sound, license free
Frequency Range	FRS (Family Radio Service)
Talking Range Maximum	Up to 2 Miles (terrain dependent)
Voltage	3.7 Volts (DC)
Water Resistance Level	Not Water Resistant

Feature	Specification
Manufacturer	Hongkong Retevis.CO.LTd

9. WARRANTY & SUPPORT

9.1. Warranty Information

Retevis provides a 2-year warranty for the radio body and a 1-year warranty for accessories. Additionally, a 30-day no-reason return policy is offered. For warranty claims or service requests within the warranty period, please contact customer support.

9.2. Out-of-Warranty Service

Beyond the warranty period, maintenance services are still available. Buyers are responsible for covering the associated costs for such services.

9.3. Customer Support

For any questions, technical assistance, or warranty-related inquiries, please contact Retevis customer service through the Amazon platform. Responses are typically provided within 12 hours to ensure the most hassle-free support experience possible.

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