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Retevis RT27

Retevis RT27 Two Way Radios Instruction Manual

Model: RT27

Introduction Safety Information Package Contents Product Overview Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

The Retevis RT27 is a reliable and easy-to-use two-way radio system designed for clear communication in various environments. This manual provides detailed instructions for the proper setup, operation, and maintenance of your RT27 radios to ensure optimal performance and longevity.



Image: Retevis RT27 walkie-talkies with their charging setup.

2. Safety Information

Please read and understand all safety precautions before using your Retevis RT27 radios. Failure to follow these instructions may result in injury or damage to the device.

- Do not operate the radio in explosive atmospheres (e.g., flammable gases, dust particles, metallic powders).
- Do not modify the radio. Unauthorized modifications can void your warranty and violate regulatory compliance.
- Use only Retevis-approved batteries and chargers. Using unapproved accessories can cause fire, explosion, or injury.
- Do not expose the radio to extreme temperatures, direct sunlight, or moisture.
- Keep the radio away from medical devices, as it may interfere with their operation.
- Dispose of batteries and electronic components responsibly, following local regulations.

3. Package Contents

Verify that all items listed below are present in your package. If any items are missing or damaged, please contact your retailer.



Image: Contents included in the Retevis RT27 package.

- Retevis RT27 Two-Way Radio (5 units)
- 1100mAh Li-ion Battery (5 units)
- USB Charger Base (5 units)
- 5-Port USB Charger (1 unit)
- Belt Clip and Strap (5 sets)
- User's English Manual (1 unit)

4. Product Overview

Familiarize yourself with the various parts and controls of your Retevis RT27 radio.



Image: Labeled diagram of the Retevis RT27 radio controls.

1. **Antenna:** Fixed antenna for signal transmission and reception.
2. **Channel Selection Knob:** Rotate to select desired communication channel (1-22).
3. **Power/Volume Knob:** Rotate clockwise to power on and increase volume; counter-clockwise to decrease volume and power off.
4. **LED Indicator:** Illuminates red during transmission, green during reception.
5. **PTT (Push-To-Talk) Switch:** Press and hold to transmit, release to receive.
6. **Scan Key:** Initiates channel scanning.
7. **MONI Key:** Activates the monitor function to listen to weak signals.
8. **MIC-SP Jack:** For connecting external audio accessories like headsets.



Image: The RT27 radio is designed for durability and strong signal penetration.

5. Setup

5.1 Battery Installation

1. Ensure the radio is powered off.
2. Align the battery pack with the grooves on the back of the radio.
3. Slide the battery pack upwards until it clicks into place.
4. To remove, press the battery release latch (if present) and slide the battery downwards.

5.2 Charging the Battery

The Retevis RT27 radios come with an 1100mAh Li-ion battery and a convenient 5-port USB charger.



Image: The 5-port USB charging station for multiple devices.

1. Connect the 5-port USB charger to a power outlet.
2. Connect each USB charger base to one of the ports on the 5-port USB charger.
3. Place the radio (with battery installed) into the USB charger base. Ensure proper contact.
4. The LED indicator on the radio will show charging status (typically red for charging, green for fully charged).
5. A full charge typically takes 3-4 hours and provides 10-12 hours of normal use.



Image: The RT27 features an 1100mAh battery and USB charging.

6. Operating Instructions

6.1 Power On/Off and Volume Adjustment

- To power on, rotate the **Power/Volume Knob** clockwise until you hear a click.
- Continue rotating clockwise to increase the volume.
- Rotate counter-clockwise to decrease the volume.
- To power off, rotate the **Power/Volume Knob** counter-clockwise until you hear a click.

6.2 Channel Selection

- Rotate the **Channel Selection Knob** to choose one of the 22 available channels.
- Ensure all radios intended for communication are set to the same channel.

6.3 Transmitting and Receiving

- To transmit, press and hold the **PTT (Push-To-Talk) Switch**. Speak clearly into the microphone. The LED indicator will glow red.
- Release the **PTT Switch** to stop transmitting and return to receive mode.
- When receiving a signal, the LED indicator will glow green.



Image: The RT27 provides clear sound quality for effective communication.

6.4 VOX (Voice Operated Exchange) Function

The RT27 supports VOX for hands-free operation. When VOX is enabled, the radio transmits automatically when it

detects your voice, without needing to press the PTT button. Refer to the full user manual for detailed instructions on enabling and adjusting VOX sensitivity, as this typically requires programming software.

6.5 Scan Function

- Press the **Scan Key** to activate the channel scan feature. The radio will cycle through active channels.
- When an active channel is detected, the radio will pause on that channel.
- Press the **Scan Key** again to stop scanning.

6.6 Monitor (MONI) Function

- Press and hold the **MONI Key** to temporarily disable the squelch and listen to weak signals or background noise on the current channel.
- Release the **MONI Key** to re-enable squelch.

7. Maintenance

7.1 Cleaning

- Wipe the radio's surface with a soft, damp cloth.
- Do not use harsh chemicals or abrasive cleaners.
- Ensure the radio is dry before use or charging.

7.2 Battery Care

- Avoid fully discharging the battery frequently to prolong its lifespan.
- Store batteries in a cool, dry place when not in use.
- If the radio will not be used for an extended period, remove the battery.

7.3 Storage

- Store the radio in a dry, dust-free environment.
- Keep out of reach of children.

8. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Battery is not installed correctly or is discharged.	Ensure battery is properly installed. Charge the battery.
Cannot transmit or receive.	Incorrect channel selected; out of range; low battery.	Verify radios are on the same channel. Move closer. Charge battery.
Poor audio quality or static.	Weak signal; interference; volume too low.	Move to an open area. Adjust volume. Use MONI key to check for weak signals.
Battery life is short.	Battery not fully charged; old battery; frequent transmission.	Ensure full charge. Consider replacing old batteries. Minimize long transmissions.

9. Specifications

Technical specifications for the Retevis RT27 Two Way Radio.

- **Model Number:** FA9133DX5-C9062A
- **ASIN:** B07CYZ6KYX
- **Product Dimensions:** 1.3"D x 2.16"W x 7.9"H (Radio only)
- **Item Weight:** Approximately 4.3 pounds (for 5-pack)
- **Batteries:** 5 Lithium Ion batteries required (included), 1100mAh capacity
- **Number of Channels:** 22 FRS Channels
- **Frequency Range:** FRS (462-467MHz, 0.5W/2W)
- **Voltage:** 3.7 Volts
- **Water Resistance Level:** Not Water Resistant
- **Special Features:** VOX, Scan, Monitor, 5-Port USB Charger
- **FCC ID:** 2AAR8RETEVISRT27



Image: Back of the RT27 radio displaying technical and regulatory information.

10. Warranty & Support

Retevis products are designed for reliability and performance. For warranty information and technical support, please refer to the official Retevis website or contact their customer service directly. The product typically includes a one-year manufacturer warranty.
For further assistance, visit: www.retevis.com

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