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› Retevis RT1 2 Way Radios Walkie Talkies User Manual

Retevis FA7135A@5-5C9003A

Retevis RT1 2 Way Radios User Manual

Model: FA7135A@5-5C9003A | Brand: Retevis

INTRODUCTION

The Retevis RT1 is a high-power, long-range two-way radio designed for robust communication in various environments such as construction sites, warehouses, and industrial settings. Featuring a durable build, a large capacity battery, and essential functions like emergency alarm and VOX, the RT1 ensures clear and reliable communication. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your Retevis RT1 radios.

WHAT'S IN THE BOX

- 5x Retevis RT1 2 Way Radios and 3000mAh battery
- 5x G type earpiece and Acoustic Tube Headset
- 5x High gain antenna and 5x Common antenna
- 5x Desktop charger and Adapter, Belt clip
- 5x English User's manual

Image: All components included in the Retevis RT1 5-pack, neatly laid out.

SETUP

1. Battery Installation

Align the 3000mAh lithium-ion battery with the back of the radio unit and slide it into place until it clicks securely. Ensure the battery is fully seated to prevent disconnections.

Image: The Retevis RT1 radio with its battery detached, illustrating the connection points.

2. Antenna Attachment

The RT1 comes with both a high-gain antenna and a common antenna. Choose the appropriate antenna for your environment. Screw the antenna clockwise onto the connector at the top of the radio until it is finger-tight. Do not overtighten.

Image: A visual representation of the high-gain antenna's effect on signal reach.

3. Charging the Battery

Place the radio with the installed battery into the desktop charger. Ensure the charging contacts on the radio align with those on the charger. The indicator light on the charger will typically turn red while charging and green when fully charged. A full charge can take several hours.

Image: The radio battery being charged in its dedicated desktop charger.

4. Attaching the Belt Clip and Lanyard

Secure the belt clip to the back of the radio using the provided screws. The lanyard can be attached to the designated loop on the radio for added security.

5. Connecting the Earpiece/Microphone

The RT1 supports external earpieces and microphones for hands-free operation. Plug the earpiece into the dual-pin jack on the side of the radio. Ensure it is firmly inserted.

Image: Detailed view of the earpiece and its connection to the radio's side port.

Setup Videos

Video: Unboxing and initial power test of the Retevis RT1 radio, demonstrating battery installation and basic functionality.

Video: A detailed unboxing and review of the upper part of the Retevis RT1 radio, highlighting its design and features.

OPERATING INSTRUCTIONS

1. Power On/Off and Volume Control

Rotate the top-most knob clockwise to power on the radio. Continue rotating to adjust the volume. Rotate counter-clockwise until it clicks to power off.

2. Channel Selection

The Retevis RT1 has 16 pre-set channels. Rotate the channel selector knob (the second knob from the top) to choose your desired communication channel. Channels are pre-set with CTCSS/DCS to reduce unnecessary transmissions. If you need to communicate with other brands of radios, contact the seller for firmware adjustments.

3. Push-to-Talk (PTT) Button

Press and hold the large side button (PTT) to transmit your voice. Release the button to receive. Speak clearly into the microphone located on the radio unit or the connected earpiece/microphone.

4. VOX Hands-Free Operation

The RT1 supports VOX (Voice Operated Transmit) for hands-free communication. This feature allows the radio to transmit automatically when it detects your voice, without needing to press the PTT button. This function needs to be enabled through programming (e.g., via CHIRP software).

5. Emergency Alarm

The radio features an emergency alarm function. Press the designated side button (customizable) in an emergency to activate the alarm, alerting your team for timely rescue. This function must be turned on through programming first.

6. High and Low Power Selection

The RT1 allows you to choose the transmission power (high or low) according to different environments. This can be configured via the custom side buttons, optimizing battery life or range as needed.

7. Compatibility

All RT1 radios have the same default frequency and are compatible right out of the box. For compatibility with other Retevis models (like RT86, RT29, RB85) or other brands, ensure they are on the same frequency and use the same CTCSS/DCS, which can be achieved through programming with CHIRP.

Image: Frequently asked questions about the RT1's features and compatibility.

Video: An official Retevis video explaining the key features and benefits of choosing RT1 walkie-talkies.

MAINTENANCE

1. Battery Care

The RT1 features a built-in 3000mAh rechargeable lithium battery, providing 12-24 hours of use time and up to 260 hours of standby time. To maximize battery life, fully charge the battery before first use and avoid over-discharging. Store the radio in a cool, dry place when not in use for extended periods.

Image: The battery charging process, emphasizing long-lasting battery life.

2. Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the charging contacts and accessory ports are clean and free of debris.

3. Durability

The RT1 features a military-grade body design, allowing it to withstand drops and shocks in harsh environments. While rugged, avoid unnecessary impacts and exposure to extreme conditions to prolong its lifespan.

Image: The robust construction of the RT1, designed to withstand tough conditions.

TROUBLESHOOTING

1. Radio Not Turning On

- Ensure the battery is properly installed and charged.
- Check the battery contacts for any dirt or corrosion.
- Verify the power/volume knob is rotated to the ON position.

2. No Communication or Poor Audio Quality

- Confirm both radios are on the same channel.
- Check that the volume is set to an audible level.
- Ensure antennas are securely attached.
- Verify that CTCSS/DCS settings are identical on both radios if programmed.
- Consider environmental factors (obstacles, terrain) affecting signal range.
- If communicating with other brands, ensure frequency and CTCSS/DCS match.

3. Short Range

- Ensure you are using the high-gain antenna for maximum range.
- Check for obstructions like buildings, mountains, or dense foliage.
- Verify the radio is set to high power mode.
- Ensure the battery is fully charged.

SPECIFICATIONS

Feature	Value
Brand	Retevis
Model Number	FA7135A@5-5C9003A
Number of Channels	16
Battery Capacity	3000mAh Lithium Ion
Use Time	12-24 hours
Standby Time	260 hours
Power Output	High Power (details vary by frequency)
Frequency Range	RT1 (UHF)
Special Features	Earpiece included, Hands-free (VOX), CHIRP support, SQL, Rugged design, Emergency Alarm
Product Dimensions	1.25"D x 2.32"W x 5.19"H
Item Weight	6.48 pounds (for 5-pack)

RANGE INFORMATION

The Retevis RT1 radios are designed for long-range communication, offering ultra-high penetration to easily transmit through various buildings, mountains, and jungles. The actual range can vary significantly based on several factors:

- **Terrain and Obstacles:** Physical obstructions like buildings, hills, and dense foliage can block radio signals. The RT1's high power design helps mitigate this in challenging environments.
- **Power Output:** Higher power output generally leads to greater range. The RT1 offers high power for extended coverage.
- **Antenna Type:** Using the high-gain antenna can significantly improve coverage compared to the common antenna.
- **Atmospheric Conditions:** Weather and atmospheric conditions can affect signal propagation.
- **Line of Sight:** Radios perform best with a clear line of sight between units.

Image: The RT1's ability to cover a 50-story building with an area of 700,000 sq. ft. under maximum output power.

Video: A promotional video showcasing the high power and long-range capabilities of the Retevis RT1 walkie-talkies.

Video: An informative video discussing the various factors that influence the actual range of two-way radios.

WARRANTY AND SUPPORT

Legal Disclaimer

Brand new and in original packaging. For any issues regarding firmware updates (e.g., to enable communication with other radio brands), please contact Retevis customer support via Amazon mail. They can provide the necessary firmware and assistance.

Customer Support

For further assistance, technical support, or warranty claims, please refer to the contact information provided in your user manual or reach out to Retevis customer service through their official channels.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question