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Retevis RT24

Retevis RT24 Plus PMR446 Two-Way Radio Instruction Manual

1. Introduction

This manual provides detailed instructions for the Retevis RT24 Plus PMR446 Two-Way Radio. Designed for reliable and clear communication, this license-free radio is suitable for various professional and recreational environments. Please read this manual thoroughly before operating your device to ensure optimal performance and safety.

2. Package Contents

Your Retevis RT24 Plus package includes the following items:

- 10 x Retevis RT24 Plus Two-Way Radios
- 10 x 1100mAh Lithium-ion Batteries
- 10 x Earpieces
- 10 x Belt Clips
- 10 x USB Charging Bases
- 1 x User Manual



Image displaying the complete package contents for the Retevis RT24 Plus, including 10 walkie-talkies, 10 batteries, 1 manual, 10 belt clips, 10 earpieces, and 10 charging bases.

3. Product Overview

The Retevis RT24 Plus is a robust and user-friendly two-way radio. Key features include 16 channels, CTCSS/DCS sub-codes for privacy, VOX hands-free operation, and a durable design.

3.1 Controls and Components

- **Antenna:** For transmitting and receiving signals.
- **Channel Selector Knob:** Rotate to select one of the 16 available channels.
- **Power/Volume Knob:** Rotate clockwise to power on/off and adjust volume.
- **Push-to-Talk (PTT) Button:** Press and hold to transmit, release to receive.
- **Monitor Button:** (Typically located on the side, allows listening to weak signals).
- **Speaker/Microphone:** For audio output and input.

- **Accessory Jack:** For connecting earpieces or programming cables.



Image showing the Retevis RT24 Plus walkie-talkie with close-ups of its side buttons and top knobs, highlighting its ease of use, license-free operation, and PMR446 compatibility.

3.2 Durable Construction

The RT24 Plus features a robust alloy metal central frame and alloy copper charging contacts, ensuring enhanced durability and reliable conductivity for long-term use.



Image detailing the robust construction of the Retevis RT24 Plus, featuring a thick alloy metal central frame and alloy copper charging contacts for durability.

4. Setup

4.1 Battery Installation

1. Ensure the radio is powered off.
2. Align the battery with the back of the radio.
3. Slide the battery into place until it clicks securely.

4.2 Charging

1. Connect the USB charging base to a power source.
2. Place the radio into the charging base.
3. The indicator light on the charging base will typically show red for charging and green for fully charged.

4. The 1100mAh battery provides approximately 10 hours of usage and 74 hours of standby time.



Image highlighting the long-lasting 1100mAh battery of the Retevis RT24 Plus, showing 74 hours of standby time, 10 hours of usage, and USB charging capability.

5. Operating Instructions

5.1 Basic Operation

1. **Power On/Off:** Rotate the Power/Volume knob clockwise to turn on, counter-clockwise to turn off.
2. **Volume Adjustment:** Rotate the Power/Volume knob to adjust the listening volume.
3. **Channel Selection:** Rotate the Channel Selector knob to choose your desired channel (1-16). Ensure all radios in your group are on the same channel.
4. **Transmitting (Talking):** Press and hold the PTT button. Speak clearly into the microphone. Release the PTT button to listen for a response.
5. **Receiving (Listening):** The radio will automatically receive transmissions when the PTT button is not pressed

and you are on the correct channel.

5.2 Advanced Features

- **VOX Function (Voice Operated Exchange):** This feature allows hands-free transmission when your voice is detected. Refer to the full user manual for activation and sensitivity adjustment.
- **Squelch Function:** The RT24 Plus features an automatic squelch function that mutes the speaker when no signal is present, effectively reducing background noise and ensuring clear audio.



Image demonstrating the crystal-clear audio feature of the Retevis RT24 Plus, ensuring conversations are easy to understand, with icons for speaker and squelch function.



Image demonstrating the VOX (Voice Operated Exchange) function of the Retevis RT24 Plus, allowing hands-free operation for increased efficiency.

5.3 Using the Earpiece

Plug the provided earpiece into the accessory jack on the side of the radio. This allows for private and clear communication, which is particularly useful in noisy environments or when discretion is required.



Image showing the Retevis RT24 Plus connected to an earpiece, emphasizing clear and private communication for team members.

6. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or solvents.
- **Battery Care:** Charge the battery fully before first use. Avoid overcharging or completely draining the battery for optimal lifespan. Store the radio and battery in a cool, dry place when not in use for extended periods.
- **Antenna:** Do not remove or modify the antenna, as this can affect performance and may violate regulations.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No Power	Battery not installed correctly or discharged. Power knob off.	Check battery installation and charge. Turn Power/Volume knob clockwise.
Cannot Transmit or Receive	Radios on different channels. Low battery. Out of range. PTT not pressed correctly.	Verify all radios are on the same channel. Charge battery. Move closer to other radios. Ensure PTT is pressed firmly during transmission.
Poor Audio Quality/Noise	Volume too low/high. Interference. Earpiece connection loose.	Adjust volume. Move to an area with fewer obstructions. Check earpiece connection.

8. Specifications

Feature	Detail
Brand	Retevis
Model Number	RT24
Color	Black
Number of Channels	16
Frequency Range	446.00625-446.19375MHz (PMR446)
Maximum Range	3 Kilometers (approx.)
Battery Type	Lithium-ion
Battery Capacity	1100mAh
Average Battery Life	10 hours (usage), 74 hours (standby)
Voltage	3.7 Volts
Water Resistance Level	IPX4 (Splash resistant)
Product Dimensions (D x W x H)	6.5 x 28.8 x 20.8 cm
Item Weight	830 Grams
Operating Temperature	-20 to 50°C
Compatible Devices	Retevis RT24 and other PMR446 compliant two-way radios

9. Warranty and Support

Retevis offers a 2-year warranty for the radio body and a 1-year warranty for accessories. A 30-day return policy is also provided. For support or warranty claims, please contact RetevisDirect via Amazon. They typically respond within 12 hours. Maintenance services are available beyond the warranty period, with buyers responsible for associated costs.

For further assistance, please refer to the official Retevis website or contact their customer service directly.

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