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Retevis RT24

Retevis RT24 PMR Radio Instruction Manual

Model: RT24

1. Introduction

This manual provides detailed instructions for the safe and efficient operation of your Retevis RT24 PMR Radio. The RT24 is a license-free two-way radio designed for reliable communication. It features 16 channels, CTCSS/DCS sub-codes for enhanced privacy, a durable construction, and a rechargeable lithium-ion battery.
Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.



Image: Retevis RT24 radios in an outdoor environment, illustrating typical usage scenarios.

2. Package Contents and Components

Verify that all items are present in your package:

- 2 x Retevis RT24 Plus Talkie Walkies PMR446
- 2 x Lithium-ion Batteries
- 2 x Earpieces
- 2 x Belt Clips
- 2 x Lanyards
- 2 x DC Chargers (European standard)
- 1 x User Manual

Radio Components Overview



Image: Labeled diagram of the Retevis RT24 radio, highlighting its main components.

1. **Antenna:** For transmitting and receiving signals.
2. **Channel Selection Knob:** Used to select one of the 16 available channels.
3. **Power/Volume Knob:** Turns the radio on/off and adjusts the audio volume.
4. **Indicator Light:** Displays radio status (e.g., transmitting, receiving, charging).
5. **PTT (Push-to-Talk) Button:** Press and hold to transmit your voice.
6. **Belt Clip:** Attaches the radio to your belt or clothing.
7. **Earpiece/Mic Jack:** Connects external audio accessories like earpieces or microphones.
8. **Battery Pack:** Houses the rechargeable lithium-ion battery.

3. Setup

3.1 Battery Installation

1. Ensure the radio is powered off.

2. Locate the battery compartment on the back of the radio.
3. Align the battery pack with the compartment and gently push it into place until it clicks securely.
4. To remove, slide the battery release latch (if present) and pull the battery pack away.

3.2 Charging the Battery

Before first use, fully charge the battery. The average battery life is 10 hours.

1. Connect the DC charger to a power outlet.
2. Place the radio into the charging cradle. Ensure the charging contacts on the radio and cradle align.
3. The indicator light on the radio or charger will typically show red during charging and turn green when fully charged.
4. Remove the radio from the charger once fully charged to preserve battery life.



Image: Retevis RT24 radio in its charging cradle.

3.3 Attaching the Belt Clip and Lanyard

1. Align the belt clip with the designated slots on the back of the radio and slide it down until it locks.
2. Thread the lanyard through the loop on the top or side of the radio for added security.

4. Operating Instructions

4.1 Power On/Off and Volume Adjustment

1. To power on, rotate the Power/Volume knob clockwise until you hear a click.
2. Continue rotating the knob clockwise to increase the volume, and counter-clockwise to decrease it.
3. To power off, rotate the knob counter-clockwise until you hear a click.

4.2 Channel Selection

The RT24 has 16 channels. To communicate with another radio, both devices must be set to the same channel.

1. Rotate the Channel Selection knob to choose your desired channel (1-16).
2. The radio may announce the channel number.

4.3 Transmitting and Receiving

1. To **transmit**, press and hold the PTT button. Speak clearly into the microphone (located near the PTT button). The indicator light will typically glow red.
2. Release the PTT button to **receive**. The indicator light will typically glow green when receiving a signal.
3. Ensure you are on the same channel as the person you wish to communicate with.

4.4 CTCSS/DCS Sub-codes

The RT24 utilizes CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digitally Coded Squelch) sub-codes to filter out unwanted conversations on a channel. If your radio is configured with a sub-code, you will only hear transmissions from radios using the same channel and sub-code. This does not guarantee privacy but reduces interference.

4.5 VOX Function (Voice Operated Exchange)

The VOX function allows for hands-free operation, transmitting automatically when it detects your voice.



Image: Illustration of the VOX hands-free function.

Refer to the full user manual (if provided separately) or contact support for detailed instructions on activating and adjusting VOX sensitivity.

4.6 Using the Earpiece

Connect the provided earpiece to the Earpiece/Mic Jack for private listening and hands-free communication.



Image: Retevis RT24 radio with connected earpiece, showing cable length details.

5. Maintenance

5.1 Cleaning

Clean the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the earpiece/mic jack cover is properly sealed if exposed to moisture.

5.2 Battery Care

To maximize battery life:

- Avoid overcharging; remove from charger once full.
- Do not expose the battery to extreme temperatures.
- If storing the radio for extended periods, charge the battery to about 50% and remove it from the radio.



Image: Retevis RT24 radio in its charging cradle, demonstrating proper charging.

5.3 Environmental Considerations

The RT24 is designed to be durable and waterproof. It can operate in temperatures ranging from -20°C to 50°C.



Image: Features highlighting the durability and waterproof design of the RT24, including sealed battery contacts.

6. Troubleshooting

Problem	Possible Cause	Solution
No power	Battery depleted or not installed correctly.	Ensure battery is fully charged and properly installed. Rotate power knob clockwise.
Cannot transmit or receive	Incorrect channel or sub-code. Out of range.	Verify both radios are on the same channel and sub-code. Move closer to the other radio.
Poor audio quality	Low battery. Out of range. Obstructions.	Charge battery. Move closer. Avoid large obstructions like buildings or dense foliage.
Battery not charging	Charger not connected. Poor contact. Faulty battery/charger.	Check charger connection. Ensure radio is seated correctly in cradle. Contact support if issue persists.

7. Specifications

Feature	Detail
Brand	Retevis
Model Number	EUA9123C
Color	Black
Number of Channels	16
Special Features	Long range, Rechargeable, Waterproof
Frequency Range	446.00625-446.19375MHz (PMR446)
Maximum Range	3 Kilometers (actual range varies with terrain)
Voltage	3.7 Volts
Water Resistance Level	Waterproof
Product Dimensions (D x W x H)	28.8 x 20.8 x 1.3 centimeters
Battery Type	2 Lithium-ion (included)
Average Battery Life	10 hours
Impedance	40 Ohms
Connectivity Protocol	PMR446
Operating Temperature Range	-20 to 50 Degrees Celsius
Item Weight	193 Grams
GTIN / UPC	714559105290, 608560831296, 714559057377



Image: CE Certification details for the Retevis RT24 radio and battery.

8. Warranty Information

Retevis offers a 2-year warranty for the radio body and a 1-year warranty for accessories. Additionally, a 30-day no-reason return policy is provided. Beyond the warranty period, maintenance services are available, with buyers responsible for associated costs.

9. Customer Support

For any questions, technical assistance, or warranty claims, please contact Retevis customer service through the Amazon platform. We aim to respond within 12 hours.

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