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Retevis RT622

Retevis RT622 Mini Professional Walkie Talkie User Manual

Model: RT622 | Brand: Retevis

1. Introduction

The Retevis RT622 is a compact and lightweight PMR446 license-free two-way radio designed for clear and reliable communication. Ideal for various environments such as hotels, restaurants, schools, and family activities, this manual provides essential information for setting up, operating, and maintaining your RT622 walkie talkie.

2. What's in the Box

Please check the package contents upon unboxing to ensure all items are present:

- 4 x Retevis RT622 Walkie Talkie units
- 4 x Rechargeable Li-ion Batteries
- 2 x EU Power Adapters
- 4 x Type-C USB Cables
- 4 x Belt Clips
- 4 x Wrist Straps
- 2 x User Manuals



Image: Package contents for the Retevis RT622 walkie talkie set.

3. Product Features

- **PMR446 License-Free:** Operates on PMR446 frequencies, legal for use in Italy and other European regions without a license.
- **Compact and Lightweight:** Weighs only 113g (including battery) with dimensions of 13.5 × 6.5 × 2.1 cm, making it highly portable.
- **Clear Sound Quality:** Equipped with a loud and clear speaker, and 0-9 level squelch to reduce environmental noise.
- **VOX Hands-Free Function:** Allows for voice-activated transmission without pressing the PTT button.
- **Durable Construction:** Made from thickened ABS material for enhanced drop resistance.
- **Long Battery Life:** Features a 1000mAh Li-ion battery providing approximately 10 hours of average use.
- **Type-C Charging:** Convenient charging via Type-C USB cable.
- **Removable Belt Clip:** Large, removable belt clip for easy attachment to clothing or bags.
- **16 Channels:** Supports 16 channels for versatile communication.



Image: The RT622's lightweight and portable design, weighing 113g.



Image: The removable belt clip for easy carrying.



Image: The 1000mAh battery and Type-C charging for extended use.



Image: Visual representation of the clear sound quality.



Image: The durable, thickened PC material for drop resistance.



Image: Demonstration of the VOX hands-free function.



Image: The 0-9 squelch levels for clear communication in noisy environments.

4. Setup

4.1 Charging the Battery

1. Insert the Li-ion battery into the walkie talkie.
2. Connect the Type-C USB cable to the charging port on the walkie talkie.
3. Plug the other end of the USB cable into the EU power adapter and then into a wall outlet.
4. The indicator light will show charging status (usually red for charging, green for fully charged).
5. A full charge typically takes 3-4 hours.

4.2 Attaching the Belt Clip

Align the belt clip with the designated slots on the back of the walkie talkie and slide it down until it clicks securely into place. To remove, slide it upwards while applying slight pressure.

4.3 Powering On/Off

To power on the walkie talkie, rotate the Power/Volume knob clockwise until you hear a click and a voice prompt. To power off, rotate the knob counter-clockwise until you hear a click.

5. Operating Instructions

5.1 Channel Selection

Rotate the Channel Selector knob (usually located on top, next to the antenna) to choose one of the 16 available channels. Ensure all radios you wish to communicate with are set to the same channel.

5.2 Push-to-Talk (PTT)

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

5.3 VOX Function (Voice Operated Exchange)

The VOX function allows for hands-free operation. When activated, the radio will transmit automatically when it detects your voice, without needing to press the PTT button.

- **Activation:** Turn off the radio. Press and hold the 'CH+' button while turning the radio on. Release the 'CH+' button once the radio powers on. A voice prompt will confirm VOX activation.
- **Deactivation:** Repeat the activation steps. A voice prompt will confirm VOX deactivation.
- **Note:** VOX sensitivity can sometimes be too high, causing unintended transmissions from background noise. Adjusting the sensitivity may require programming software (not covered in this basic manual).

5.4 Squelch Adjustment

The RT622 features 0-9 levels of squelch. Squelch filters out weak signals and background noise. A higher squelch level requires a stronger signal to open the receiver, reducing static but potentially missing weak transmissions. A lower level allows weaker signals through but may increase background noise. The squelch level is typically pre-set and can be adjusted via programming software.

6. Maintenance

6.1 Battery Care

- Charge the battery fully before first use.
- Avoid overcharging or completely draining the battery 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.

6.2 Cleaning

- Clean the radio's surface with a soft, damp cloth.
- Do not use harsh chemicals or abrasive cleaners.
- Ensure the charging port cover is securely closed to prevent dust and moisture ingress.

7. Troubleshooting

- **No Power:** Ensure the battery is properly installed and charged. Check if the Power/Volume knob is turned on.
- **Cannot Transmit or Receive:** Verify that all radios are on the same channel. Check if the battery is low. Ensure the PTT

button is pressed correctly when transmitting.

- **Poor Sound Quality/Static:** Adjust the squelch level if possible (via programming). Move to an area with fewer obstructions. Ensure the antenna is clear.
- **VOX Not Working:** Ensure VOX is activated correctly (refer to section 5.3). Check microphone for obstructions.
- **Limited Range:** Range is affected by terrain, obstructions, and electromagnetic interference. Try moving to a higher or more open location.

8. Specifications

Feature	Specification
Brand	Retevis
Model Number	RT622
Color	Black
Number of Channels	16
Frequency Range	446.00625-446.19375MHz (PMR446)
Maximum Talk Range	3 Kilometers (environment dependent)
Voltage	3.7 Volts
Battery Type	Li-ion
Battery Capacity	1000mAh
Average Battery Life	10 Hours
Water Resistance Level	Moisture Resistant (IP54)
Product Dimensions (DxWxH)	2.1 x 5.6 x 13.6 cm
Item Weight	113 Grams
Operating Temperature	-20 to 50°C

9. Warranty and Support

Retevis provides a **2-year warranty** for the radio body and a **1-year warranty** for accessories. We offer a 30-day no-reason return policy. Beyond the warranty period, maintenance services are still available, with buyers responsible for corresponding costs. For any inquiries or support, please contact us through Amazon. We aim to respond within 12 hours.

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