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› [Retevis](#) /

› Retevis RT648 Walkie Talkie Instruction Manual

Retevis RT648

Retevis RT648 Walkie Talkie Instruction Manual

Model: RT648 | Brand: Retevis

1. PRODUCT OVERVIEW

The Retevis RT648 is a robust and reliable license-free PMR446 two-way radio designed for various demanding environments. It features IP67 waterproof and dustproof capabilities, ensuring performance even when submerged in water up to 1 meter deep or exposed to dusty conditions. This model comes with a convenient six-way charger, allowing simultaneous charging of multiple units or batteries, enhancing operational efficiency.



Image: Six Retevis RT648 walkie-talkies are shown securely placed in their dedicated six-way charging base. The power adapter is connected, indicating the charging setup. This image highlights the multi-unit charging capability.

Key Features:

- **IP67 Waterproof and Dustproof:** Designed to withstand harsh conditions, offering protection against water immersion (up to 1m for 30 minutes) and complete dust ingress.
- **Six-Way Charger:** Efficiently charges up to six radios or batteries simultaneously, with removable charging seats for easy replacement.
- **License-Free Operation:** Fully compliant with European license-free PMR446 requirements, ready for use out of the box in France and other European countries.
- **Long Battery Life:** Equipped with a 1200 mAh lithium battery, providing 6-8 hours of continuous use, 1-2 days of normal use, and up to 3 days of standby time.

- **VOX Function:** Enables hands-free communication, ideal for situations where manual operation is inconvenient.
- **Durable Construction:** Made with high-quality PC material and a robust middle frame, designed to withstand drops and impacts.
- **Clear Audio Quality:** Features professional squelch technology to eliminate background noise, ensuring clear and crisp communication.



IP67 Waterproof and Dustproof

Level 7 waterproof

Level 6 dustproof

Adapt to various harsh environments

Image: A Retevis RT648 walkie-talkie is displayed alongside text highlighting its IP67 waterproof and dustproof rating. Background images depict a construction site and a crowded beach, illustrating diverse environments where the radio can be used.

2. SETUP GUIDE

2.1 Package Contents

Before proceeding, please verify that all items are present in your package:



Package Details

6 x RT648 Walkie Talkie
6 x 1200mAh Li-ion Battery
6 x Belt Clip
6 x Hand Strap
1 x User Manual
1 x Six-way Charger

Image: This image shows the complete package contents for the Retevis RT648. It includes six RT648 walkie-talkies, six 1200mAh Li-ion batteries, six belt clips, six hand straps, one user manual, and one six-way charger.

- 6 x RT648 Walkie Talkie Units
- 6 x 1200mAh Li-ion Batteries
- 6 x Belt Clips
- 6 x Hand Straps
- 1 x User Manual (this document)
- 1 x Six-way Charger

2.2 Battery Installation and Charging

The RT648 radios come with 1200mAh lithium-ion batteries. Ensure batteries are fully charged before first use.

1. Align the battery pack with the battery compartment on the back of the radio.
2. Gently push the battery into place until it clicks securely.

3. Connect the six-way charger to a power outlet using the provided adapter.
4. Place the radio (with battery installed) or individual battery into an available slot on the six-way charger. The indicator light on the charger will show the charging status (typically red for charging, green for fully charged).



Six-way Charger

Can charge 6 walkie-talkies or 6 batteries at the same time

Image: The six-way charger is shown with three walkie-talkies and three separate batteries placed in its slots for charging. A power adapter is plugged into the charger, indicating it is actively charging the units.

The charger is designed to charge six radios or six batteries simultaneously, providing high efficiency. Each charging seat is removable and can be replaced if worn.

2.3 Attaching the Belt Clip

To attach the belt clip for convenient carrying:



Step 1



Step 2



Step 3



Step 4

Image: A four-step visual guide demonstrates the installation of the belt clip on the Retevis RT648 walkie-talkie. It shows using a screwdriver to secure the clip to the back of the radio.

1. Locate the screw holes on the back of the radio.
2. Align the belt clip with the screw holes.
3. Insert the screws and tighten them with a screwdriver until the clip is firmly attached.

3. OPERATING INSTRUCTIONS

3.1 Radio Parts and Controls



Image: A detailed diagram of the Retevis RT648 walkie-talkie, labeling its key components and controls, including the antenna, channel knob, power/volume switch, status indicator light, speaker, microphone, PTT (Push-to-Talk) button, SK1/SK2 programmable buttons, and the SP/MIC/Program Jack.

- **Antenna:** For transmitting and receiving signals.
- **Channel Knob:** Rotates to select desired communication channel (1-16).
- **Power/Volume Switch:** Rotates to turn the radio ON/OFF and adjust volume.
- **Status Indicator Light:** Indicates radio status (e.g., transmitting, receiving, low battery).
- **Speaker:** Outputs received audio.
- **Microphone:** Captures your voice for transmission.
- **PTT (Push-to-Talk) Button:** Press and hold to transmit, release to receive.
- **SK1/SK2 Buttons:** Programmable side keys for various functions (e.g., monitor, scan, alarm).
- **SP/MIC/Program Jack:** For connecting external audio accessories (earpiece/microphone) or programming cable.

3.2 Basic Operation

1. **Power ON/OFF:** Rotate the Power/Volume switch clockwise to turn the radio ON. Rotate counter-clockwise until it clicks to turn OFF.
2. **Adjust Volume:** After turning on, continue rotating the Power/Volume switch to adjust the listening volume.

3. **Select Channel:** Rotate the Channel knob to select one of the 16 available channels. Ensure all radios in your group are on the same channel for communication.
4. **Transmit:** Press and hold the PTT button firmly. Speak clearly into the microphone. Release the PTT button to listen for a response.
5. **Receive:** When not transmitting, the radio is in receive mode. The status indicator light will typically glow green when a signal is received.

3.3 VOX Function (Hands-Free Operation)

The VOX (Voice Operated Transmit) function allows you to transmit without pressing the PTT button. When VOX is enabled, the radio will automatically transmit when it detects your voice.

- The VOX function needs to be enabled via programming software (not user-configurable directly on the radio).
- Once enabled, speak into the microphone to initiate transmission. The radio will stop transmitting when you stop speaking.
- Adjusting VOX sensitivity (if available via programming) can prevent accidental transmissions from background noise or ensure proper voice detection.

4. MAINTENANCE

4.1 General Care

- Keep the radio clean by wiping it with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- While the RT648 is IP67 rated, avoid unnecessary exposure to extreme conditions. Always ensure the accessory jack cover is securely closed when not in use to maintain water and dust resistance.
- Store the radio in a cool, dry place when not in use.

4.2 Charger Maintenance

The six-way charger features removable charging seats. If a seat becomes damaged or worn, it can be replaced.



Removable Base

Each base can be disassembled separately, if worn, You can purchase the base replacement separately

Image: A three-step diagram illustrates the process of disassembling and reassembling a single charging base module from the larger six-way charger unit, indicating its modular design for maintenance.

1. Ensure the charger is unplugged from the power source.
2. Carefully detach the worn charging seat from the main unit.
3. Install a new replacement seat, ensuring it clicks firmly into place.

5. TROUBLESHOOTING

If you encounter issues with your Retevis RT648, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on.	Battery is not installed correctly or is depleted.	Ensure battery is securely installed. Charge the battery fully using the six-way charger.

Problem	Possible Cause	Solution
Cannot transmit or receive.	Radios are on different channels. Out of range. Low battery.	Verify all radios are on the same channel. Move closer to the other radio. Recharge the battery.
Poor audio quality or static.	Out of range. Interference. Volume too low/high.	Move closer to the other radio. Avoid sources of strong electromagnetic interference. Adjust volume.
Charger indicator light not working.	Power adapter not connected. Faulty charging seat.	Ensure power adapter is securely plugged into both the charger and the wall outlet. Try a different charging seat.

6. SPECIFICATIONS

Feature	Detail
Brand	Retevis
Model Number	RT648
Color	Black
Special Features	Emergency Alarm, VOX Function, Professional Squelch
Compatible Devices	PMR446 two-way radios
Battery Composition	Lithium-ion
Battery Capacity	1200 mAh
Number of Channels	16
Frequency Range	446.00625-446.19375 MHz (PMR446)
Maximum Range	2 Kilometers (environment dependent)
Voltage	3.7 Volts
Water Resistance Level	IP67 (Immersible in 1m water for 30 mins, dustproof)
Product Dimensions (D x W x H)	3.8 x 6.5 x 24 cm
Country of Origin	China



3 Days

Stand by 3 Days



1-2 Days

Typical use
1-2 Days



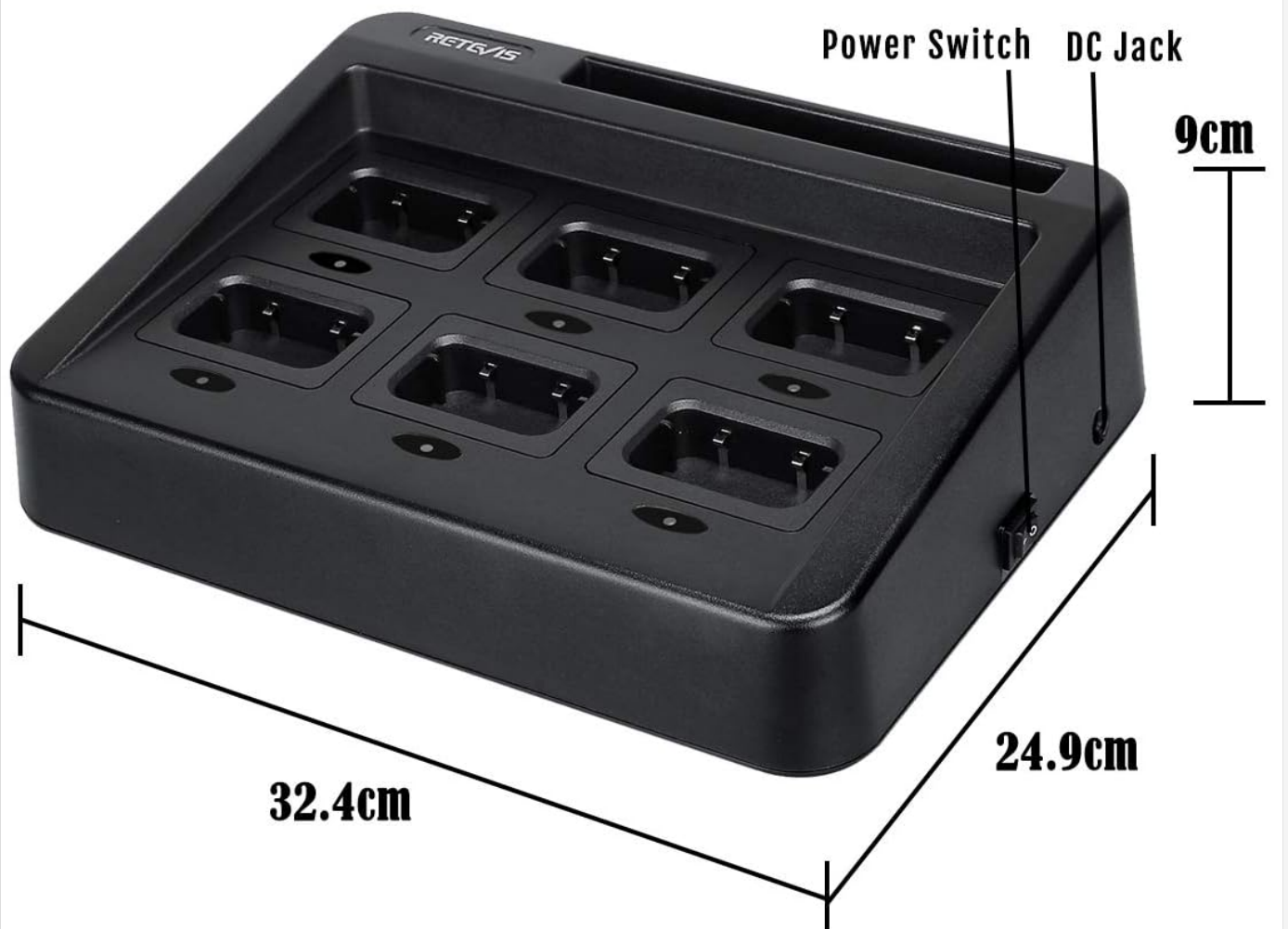
6-8 Hours

Continuous use
6-8 Hours



Image: This graphic illustrates the battery performance of the Retevis RT648, indicating a standby time of 3 days, typical use of 1-2 days, and continuous use for 6-8 hours, powered by its 1200mAh battery.

More convenient use experience



- 1>Adapt to international universal AC **100V-240V** power supply 2>The adapter plug is removable

Image: A diagram showing the dimensions of the six-way charger: approximately 32.4 cm in length, 24.9 cm in width, and 9 cm in height. It also notes that it adapts to international universal AC 100V-240V power supply and the adapter plug is removable.

7. WARRANTY AND SUPPORT

7.1 Manufacturer's Warranty

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, Retevis continues to offer maintenance services. Buyers are responsible for any associated costs for out-of-warranty repairs.

7.2 Customer Support

For any inquiries, technical assistance, or warranty claims, please contact Retevis customer support through Amazon. They aim to respond within 12 hours.

You can visit the official Retevis store on Amazon for more information and product updates [Retevis Amazon Store](#).

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