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› Retevis RT668 Two-Way Radio Instruction Manual

Retevis RT668

Retevis RT668 Two-Way Radio Instruction Manual

Model: RT668

INTRODUCTION

Thank you for choosing the Retevis RT668 Two-Way Radio. This manual provides essential information for the safe and efficient operation of your device. Please read it thoroughly before use and retain it for future reference.



Figure 1: Retevis RT668 Two-Way Radio

PACKAGE CONTENTS

Ensure all items are present in your package:

- Retevis RT668 Two-Way Radio (10 units)
- 1200 mAh Li-ion Battery (10 units)
- Charging Station (10 units)
- Belt Clip (10 units)
- Lanyard (10 units)
- 2-pin Security Earpiece (10 units)
- User Manual



Figure 2: Included components for the Retevis RT668 (10-pack)

SETUP

1. Battery Installation

1. Align the battery pack with the grooves on the back of the radio.
2. Slide the battery pack upwards until it clicks securely into place.
3. To remove, press the release latch (if present) and slide the battery downwards.



Figure 3: Battery and radio back view

2. Charging the Battery

The RT668 is powered by a 1200 mAh Li-ion battery. Use the provided charging station to charge the battery or the radio directly.

1. Connect the charging station to a power outlet.

2. Place the radio with the battery installed, or just the battery, into the charging slot.
3. The indicator light on the charger will show the charging status (e.g., red for charging, green for fully charged).

3. Attaching the Earpiece

Connect the 2-pin security earpiece to the audio jack on the side of the radio for private communication.

OPERATING INSTRUCTIONS

1. Power On/Off and Volume Adjustment

Rotate the top-most knob clockwise to power on the radio. Continue rotating to increase the volume. Rotate counter-clockwise to decrease volume and power off.

Your browser does not support the video tag.

Video 1: Demonstrates the physical controls of the Retevis RT668, including power, volume, and channel selection.

2. Channel Selection

The RT668 features 16 channels. Rotate the channel adjustment knob (the second knob from the top) to select your desired channel. Ensure all radios in your group are on the same channel for communication.

3. Push-to-Talk (PTT)

To transmit, press and hold the large PTT button on the side of the radio. Speak clearly into the microphone. Release the button to listen.

4. 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, eliminating the need to press the PTT button.



Figure 4: Hands-free communication with VOX

5. CTCSS/DCS (Continuous Tone-Coded Squelch System / Digital-Coded Squelch)

The RT668 supports CTCSS/DCS codes to filter out unwanted conversations on the same channel. When enabled, you will only hear transmissions from radios using the same CTCSS/DCS code. This ensures clear voice transmission and communication security.



Figure 5: Pre-set CTCSS/DCS for secure communication

6. Range Considerations

The actual communication range of two-way radios is influenced by several factors, including terrain, obstacles, radio power,

antenna type, and atmospheric conditions. While manufacturers may claim extended ranges, these are often achieved under ideal line-of-sight conditions (e.g., from a mountaintop). In urban, suburban, or rural areas, the range will be significantly less due to buildings, trees, and other obstructions.

Your browser does not support the video tag.

Video 2: Explains factors affecting two-way radio range and provides realistic expectations for different environments.

To maximize range:

- **Increase Transmit Power:** (In theory, doubling transmit power extends range by approximately 1.4 times the original distance).
- **Improve Receiver Sensitivity:** Adjust the squelch threshold and use a high-gain antenna to enhance reception.
- **Operate from a Higher Position:** Elevate your position to reduce obstructions.
- **Keep Battery Charged:** A fully charged battery ensures optimal power output.

MAINTENANCE

1. General Care

The Retevis RT668 is designed with a technical PC case for durability and is water-resistant. However, proper care is essential for longevity.

- Avoid exposing the radio to extreme temperatures, direct sunlight for prolonged periods, or harsh chemicals.
- Clean the radio with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the battery contacts are clean and dry.

Designed for the harsh environments of factories



Figure 6: Designed for harsh environments

Strong and Sturdy



Figure 7: Strong and sturdy construction

2. Battery Care

- Do not disassemble, dispose of in fire, or short-circuit the battery terminals.
- Use only the specified charger for the battery pack.
- For long-term storage, charge the battery to about 50% and store in a cool, dry place.

TROUBLESHOOTING

1. No Power

- Check if the battery is properly installed and charged.
- Ensure the power/volume knob is turned clockwise to the 'ON' position.

2. Cannot Transmit or Receive

- Verify that all radios are on the same channel.
- Check if CTCSS/DCS codes are correctly matched between radios.

- Ensure you are within the effective communication range.
- Check for obstructions between radios.

3. Poor Audio Quality

- Adjust the volume level.
- Check the squelch level; a higher squelch level might filter out weak signals.
- Ensure the microphone and speaker are not obstructed.
- Move to an area with fewer obstructions or closer to the other radio.



Figure 8: Clear communication in noisy environments

4. Emergency Features

The RT668 includes a panic button for quickly responding to emergencies. Refer to specific programming instructions for activating and configuring this feature.

Panic Button - Quickly respond to emergencies



Figure 9: Panic button for emergencies

SPECIFICATIONS

Feature	Specification
Brand	Retevis
Color	Black
Number of Channels	16
Special Feature	Automatic Squelch
Frequency Range	446.00625-446.19375MHz
Maximum Call Range	3 Kilometers
Voltage	3.7 Volts

Water Resistance Level	Water-resistant
Product Dimensions (DxWxH)	3.5D x 5W x 11.6H centimeters
Number of Batteries	10 Lithium-ion batteries required
Noise Level	40 Decibels
Compatible Devices	Retevis PMR446 walkie-talkie
Temperature Variation	-10-50°C Degrees Celsius
Battery Life	10 Hours
Tuner Technology	Extra, UHF
Connectivity Protocol	PMR446
Model Number	EUA9175BX5-C9003AX10
Manufacturer	Retevis
Country of Origin	China
Item Weight	161 Grams

WARRANTY AND SUPPORT

Warranty Description

We provide a 2-year warranty and 30-day no-reason return policy. The radio body has a 2-year warranty, and accessories have a 1-year warranty. Beyond the warranty period, we still offer maintenance services, with buyers responsible for associated costs. For any issues, please contact us on Amazon, and we will respond within 12 hours.

Contact Support

For further assistance, technical support, or warranty claims, please contact Retevis customer service through the Amazon platform where you purchased the product. Provide your order details for faster service.