

Retevis RA635

Retevis RA635 PMR446 Two-Way Radio User Manual

Model: RA635

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your Retevis RA635 PMR446 Two-Way Radio. Please read this manual thoroughly before using the device to ensure proper functionality and to understand all features. The Retevis RA635 is a license-free two-way radio designed for clear and reliable communication in various environments.

2. PRODUCT OVERVIEW

2.1. Components and Controls

Familiarize yourself with the various parts of your Retevis RA635 two-way radio:

Mini Compact Powerful

ideal tools for kids adults elder family activities



Image 2.1: A detailed diagram illustrating the dimensions (143mm height, 35mm depth, 56mm width) and key components of the Retevis RA635, including the antenna, flashlight, screen, PTT button, power button, menu button, scan button, microphone, and speaker.

- **Antenna:** For transmitting and receiving signals.
- **Flashlight:** Integrated LED light for illumination.
- **Screen (LCD):** Displays channel, battery status, and other operational information.
- **PTT (Push-to-Talk) Button:** Press and hold to transmit your voice.
- **Power Button:** Long press to turn the radio on or off.
- **Menu Button:** Accesses settings and options.
- **Scan Button:** Initiates channel scanning.
- **Microphone:** Captures your voice for transmission.
- **Speaker:** Outputs received audio.
- **Monitor (Mon) Button:** Used to temporarily disable squelch and listen for weak signals.
- **Up/Down Buttons:** Adjust volume, navigate menus, and change channels.
- **2.5mm Headphone Port:** For connecting an external earpiece or microphone.
- **Back Clip:** Detachable clip for attaching the radio to a belt or pocket.

Big Buttons & Simple Design

perfect for kids adults elder family activities



Image 2.2: This image provides a close-up view of the Retevis RA635, highlighting its large buttons, LCD screen, Push-to-Talk (PTT) button, 2.5mm headphone port, and detachable back clip for easy carrying.

2.2. Key Features

- **PMR446 License-Free Operation:** Operates on the PMR446 frequency band, requiring no license for use in most European countries.
- **16 Channels:** Provides multiple channels for communication, reducing interference.
- **VOX Function (Voice Operated Exchange):** Allows hands-free communication without pressing the PTT button.
- **LED Flashlight:** Built-in high-brightness LED flashlight for emergency lighting or use in low-light conditions.
- **Long Range Communication:** Up to 3 miles in open fields and 1.5 miles in built-up areas, depending on terrain and conditions.
- **Clear Sound Quality:** Equipped with a high-quality DSP speaker for loud and clear audio, even in noisy environments.
- **Adjustable Volume:** Easily adjust the speaker volume to your preference.
- **Keyboard Lock:** Prevents accidental changes to settings.

- **Auto Power Saver:** Helps conserve battery life.
- **Compact and User-Friendly Design:** Palm-sized with large, easy-to-operate buttons and a clear LCD screen.
- **10 Selectable Call Tones:** Personalize your radio with different alert sounds.



Image 2.3: An infographic summarizing the main features of the Retevis RA635, including keyboard lock, flashlight, crystal sound, VOX, 16 channels, auto power saver, and long-range communication capabilities.

3. SETUP

3.1. Battery Installation

1. Ensure the radio is powered off.
2. Locate the detachable belt clip on the back of the radio. Slide the belt clip upwards to remove it.
3. Underneath the belt clip, you will find the battery compartment cover. Slide the cover downwards to open it.

4. Insert 4 AAA batteries (not included) into the compartment, ensuring correct polarity (+/-).
5. Replace the battery compartment cover by sliding it upwards until it clicks into place.
6. Reattach the belt clip by sliding it downwards until it locks securely.

3.2. Powering On/Off

- **To Power On:** Press and hold the **Power** button (usually marked with a circle and a vertical line) until the LCD screen illuminates.
- **To Power Off:** Press and hold the **Power** button until the LCD screen turns off.

4. OPERATING INSTRUCTIONS

4.1. Channel Selection

Your Retevis RA635 has 16 available channels. To select a channel:

1. Press the **MENU** button once. The channel number on the LCD screen will flash.
2. Use the **Up** or **Down** buttons to select your desired channel.
3. Press the **MENU** button again to confirm your selection, or wait a few seconds for the setting to save automatically.

Ensure all radios you wish to communicate with are set to the same channel.

16 channels & long range



Image 4.1: This image shows the Retevis RA635 being used in an open field, highlighting its 16 channels and long-range communication ability, with a person in the distance holding another radio.

4.2. Transmitting and Receiving

- **To Transmit:** Press and hold the **PTT (Push-to-Talk)** button located on the side of the radio. Speak clearly into the microphone. Release the PTT button when you finish speaking.
- **To Receive:** Ensure the PTT button is not pressed. The radio will automatically receive signals on the selected channel.



Image 4.2: An image depicting the Retevis RA635 in use outdoors, emphasizing its clear sound quality for smooth communication even in noisy environments, with a couple hiking in the background.

4.3. VOX Function (Hands-Free Operation)

The VOX function allows you to transmit by speaking into the microphone without pressing the PTT button.

1. Press the **MENU** button multiple times until the VOX icon (usually 'VOX' or a microphone symbol) flashes on the screen.
2. Use the **Up** or **Down** buttons to select the VOX sensitivity level (e.g., 1-3, with 3 being most sensitive). Select 'OFF' to disable VOX.
3. Press the **MENU** button to confirm.



VOX function

offers voice activated hands free operation
without having to press the PTT button



Image 4.3: This image illustrates the VOX (Voice Operated Exchange) function of the Retevis RA635, allowing hands-free operation, with two children cycling in the background, suggesting ease of use during activities.

4.4. LED Flashlight Operation

To activate the built-in LED flashlight:

- Press the **Flashlight** button (often marked with a lightbulb icon) once to turn it on.
- Press the **Flashlight** button again to turn it off.

High-brightness LED flashlight

make your night adventure more funny and fully enjoyable



Image 4.4: The Retevis RA635 is shown with its high-brightness LED flashlight activated, illuminating a tent at night, demonstrating its utility as an emergency light source during outdoor adventures.

4.5. Keyboard Lock

To prevent accidental button presses, you can lock the keyboard:

- **To Lock:** Press and hold the **Lock** button (often integrated with the MENU button, marked with a padlock icon) until a padlock icon appears on the screen.
- **To Unlock:** Press and hold the **Lock** button again until the padlock icon disappears.

4.6. Volume Adjustment

Use the **Up** or **Down** buttons (when not in menu mode) to adjust the listening volume.

4.7. Scan Function

The scan function allows the radio to automatically search for active channels.

- Press the **Scan** button (often marked with 'Scan' or a magnifying glass icon) to start scanning.
- The radio will stop on an active channel. Press the **Scan** button again to stop scanning.

4.8. Call Tones

To select a call tone:

1. Press the **MENU** button multiple times until the call tone setting flashes on the screen.
2. Use the **Up** or **Down** buttons to cycle through the 10 available call tones.
3. Press the **MENU** button to confirm your selection.

5. MAINTENANCE

5.1. Cleaning

- Wipe the radio with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure the radio is dry before storing or using.

5.2. Battery Care

- Replace AAA batteries when the low battery indicator appears on the screen.
- Remove batteries if the radio will not be used for an extended period to prevent leakage.
- Dispose of used batteries responsibly according to local regulations.

5.3. Storage

- Store the radio in a cool, dry place away from direct sunlight and extreme temperatures.
- Keep the radio away from dust and moisture.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Batteries are dead or incorrectly installed.	Check battery polarity and replace with fresh AAA batteries.
No sound or static during reception.	Volume is too low; radios are on different channels; out of range; squelch issue.	Increase volume. Ensure both radios are on the same channel. Move closer to the other radio. Press the Monitor button to check for weak signals.
Cannot transmit.	PTT button not pressed; radio is in scan mode; low battery.	Press and hold the PTT button firmly. Exit scan mode. Replace batteries.
Short communication range.	Obstacles (buildings, hills); low battery; environmental interference.	Move to a more open area. Replace batteries. Avoid areas with high electromagnetic interference.

Problem	Possible Cause	Solution
Keyboard is unresponsive.	Keyboard lock is active.	Press and hold the Lock button to unlock the keyboard.

7. SPECIFICATIONS

- **Brand:** Retevis
- **Model:** RA635
- **Color:** Green
- **Number of Channels:** 16
- **Frequency Range:** 446.00625 - 446.19375 MHz (PMR446)
- **Maximum Range:** Up to 3 miles (open fields), 1.5 miles (built-up areas)
- **Voltage:** 4.8 Volts (DC)
- **Water Resistance:** Not waterproof
- **Dimensions (D x W x H):** 3.5 cm x 5.6 cm x 14.3 cm
- **Item Weight:** 434 Grams
- **Battery Type:** AAA (4 per radio, not included)
- **Special Features:** Adjustable volume, VOX, LED flashlight, keyboard lock, scan function, 10 call tones.

8. WARRANTY AND SUPPORT

Retevis offers the following warranty and support for the RA635 Two-Way Radio:

- **Warranty Period:** 2 years from the date of purchase.
- **Satisfaction Guarantee:** You may try the product for 30 days and return it for free if not satisfied.
- **Replacements:** We can replace the two-way radio for you within the first 6 months of purchase.
- **Repairs:** After 11 months, we will be responsible for repairing the product, but you will be responsible for shipping costs.

For further assistance or to claim warranty service, please contact Retevis customer support through the retailer where you purchased the product or visit the official Retevis website.

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