Retevis RA79

Retevis RA79 Two Way Radio Instruction Manual

Model: RA79

1. INTRODUCTION

Thank you for choosing the Retevis RA79 Two Way Radio. This manual provides essential information for the safe and efficient operation of your device. The RA79 is a high-power, dual-band ham radio featuring 128 channels, designed for reliable long-range communication. Please read this manual thoroughly before use.

Package Contents:

- 2 x Retevis RA79 Two Way Radio
- 2 x Standard Antenna
- 2 x Foldable Tactical Antenna
- 2 x Earpiece
- 2 x Li-ion Battery Pack
- 2 x Charger
- 2 x Belt Clip
- 2 x Sling
- 2 x Adapter
- 2 x Speaker Mic

2. SETUP

2.1 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 into place.
3. To remove, press the battery release latch and slide the battery downwards.

2.2 Antenna Attachment

The RA79 uses an SMA female antenna interface. You can choose between the standard antenna or the foldable tactical antenna for enhanced signal strength.

1. Screw the desired antenna clockwise into the antenna connector on top of the radio until it is finger-tight. Do not overtighten.

2. Ensure a secure connection for optimal performance.

SMA Female Antenna

Antenna Interface

Equipment Interface

Image: The SMA female antenna interface on the radio and the corresponding antenna connector. This image illustrates how to properly connect the antenna to the radio.

Foldable Tactical Antenna

28.9 inch

Image: The foldable tactical antenna, showing its flexible design. This antenna can be easily bent without breaking, making it convenient for storage and transport.

2.3 Charging the Battery

1. Connect the adapter to the charger base.
2. Plug the adapter into a power outlet.
3. Place the radio with the battery attached (or just the battery pack) into the charger base.
4. The charger indicator light will show charging status (typically red for charging, green for fully charged).

2.4 Attaching Accessories

- **Belt Clip:** Secure the belt clip to the back of the radio using the provided screws.
- **Earpiece/Speaker Mic:** Plug the earpiece or speaker mic into the accessory jack on the side of the radio.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

- **Power On:** Rotate the power/volume knob clockwise until you hear a click.

- **Power Off:** Rotate the power/volume knob counter-clockwise until you hear a click.

3.2 Adjusting Volume

Rotate the power/volume knob clockwise to increase volume and counter-clockwise to decrease volume.

3.3 Channel Selection and Dual-Band Display

The RA79 supports 128 channels and features a dual-band display, allowing you to monitor two different frequencies simultaneously. Use the keypad to directly input frequencies or navigate through programmed channels.

Image: The radio's display showing two active frequency bands. This dual-band display allows for more convenient monitoring of different frequencies.

LCD Display

Even in a dark environment, you can still read the screen content normally

Image: The radio's LCD display illuminated in a dark environment. The display ensures readability of screen content even in low-light conditions.

3.4 Transmitting and Receiving

- **Receiving:** When the radio is on and tuned to an active channel, it will automatically receive incoming transmissions.
- **Transmitting:** Press and hold the Push-to-Talk (PTT) button on the side of the radio. Speak clearly into the microphone. Release the PTT button to stop transmitting and return to receive mode.

Image: A Retevis RA79 radio demonstrating its 5W high power signal transmission capability, reaching up to 4 miles in ideal conditions. The image shows signal propagation over varied terrain.

3.5 CHIRP Software Support

The Retevis RA79 supports CHIRP software, allowing for personalized programming of channels, frequencies, and other settings. This enables users to customize the radio's functionality to meet specific operational needs. Refer to the CHIRP software documentation for detailed programming instructions.

Support CHIRP

Personalized design can be performed to meet different needs

Image: A hand interacting with the radio's keypad, with a background suggesting software code. This illustrates the radio's compatibility with CHIRP software for personalized programming.

4. MAINTENANCE

4.1 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.

4.2 Cleaning the Radio

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the radio is powered off and dry before cleaning.

4.3 Antenna Care

The foldable tactical antenna is designed for durability and flexibility. While it can bend easily, avoid excessive force or sharp angles that could damage the internal wiring. Ensure the antenna connection remains tight.

4.4 General Handling

The RA79 is built with an anti-falling design for enhanced durability. However, avoid dropping the radio from significant heights or subjecting it to severe impacts to prevent damage.
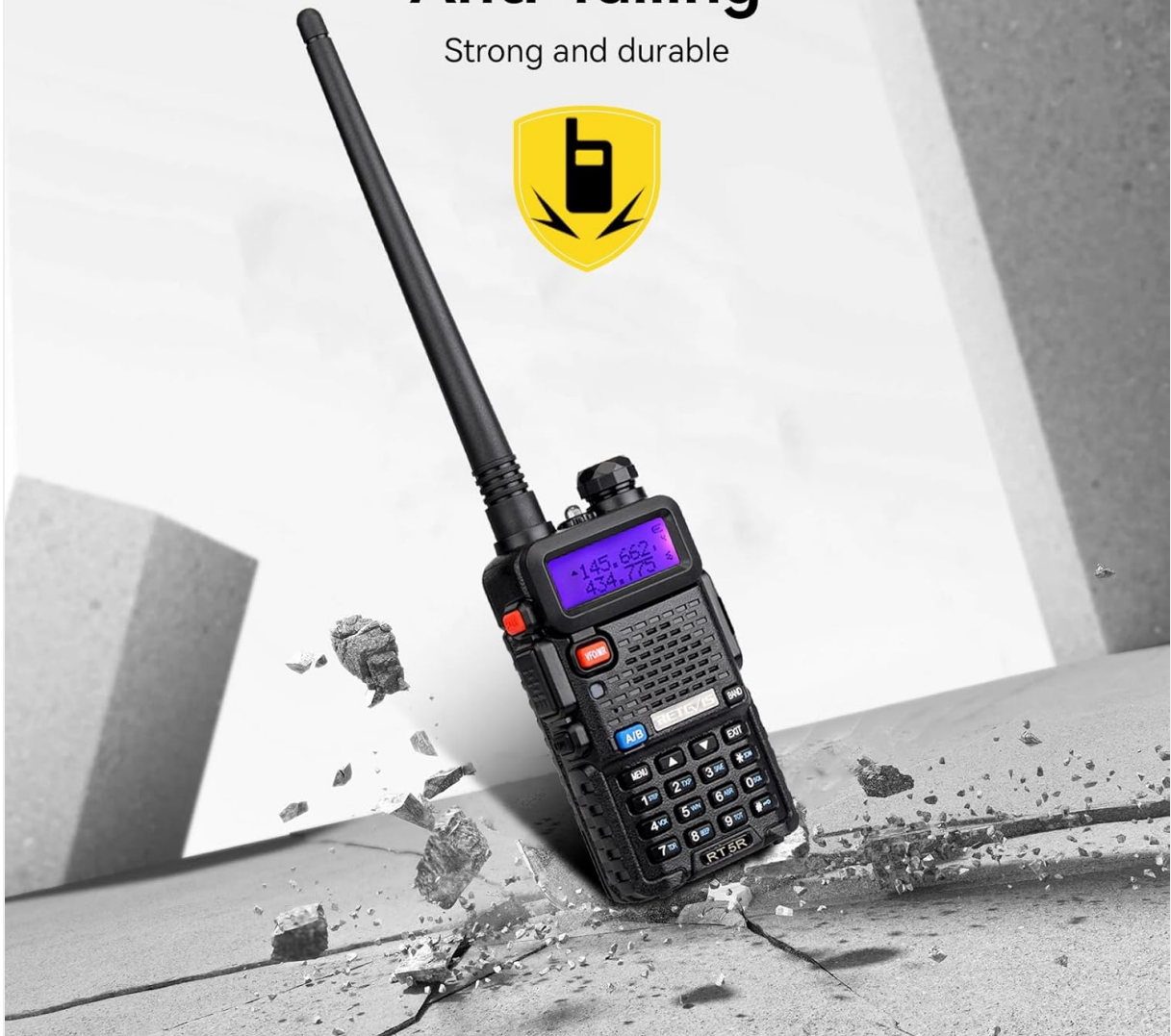
Image: The radio being subjected to a simulated fall, with a shield icon indicating its anti-falling design. This highlights the radio's strong and durable construction.

5. TROUBLESHOOTING

If you encounter issues with your Retevis RA79 radio, please refer to the following common problems and solutions:

- **Radio does not power on:**

  - Ensure the battery is properly installed and charged.
  - Check that the power/volume knob is rotated clockwise past the 'off' position.

- **Cannot transmit or receive:**

  - Verify the antenna is securely attached.
  - Confirm you are on the correct frequency/channel.
  - Check if the battery level is sufficient.
  - Ensure no squelch settings are too high, blocking weak signals.

- **Poor audio quality:**

  - Adjust the volume level.

- Check the antenna connection.
- Ensure you are within range of the other radio or repeater.
- If using an earpiece/speaker mic, ensure it is fully plugged in and functional.

If these steps do not resolve the issue, please contact Retevis customer support.

6. SPECIFICATIONS

Feature	Specification
Brand	Retevis
Model	RA79
Number of Channels	128
Frequency Bands	Dual Band (VHF & UHF)
Power Output	High Power (5W)
Antenna Type	SMA Female
Antenna Gain (Tactical)	5dBi
Antenna Length (Tactical)	73.5cm / 28.9 inches
Antenna Impedance	50Ω
Display Features	LCD, Dual-band Display
Programming	Supports CHIRP
Durability	Anti-falling design

Image: A detailed view of the high gain antenna, highlighting its specifications including Frequency VHF&UHF, Gain 5dBi, S.W.R<1.5, Max Power 20W, and Impedance 50Ω.

7. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product or visit the official Retevis website. Retevis provides customer support for product inquiries, technical assistance, and warranty claims.

You can find more information and contact details on the Retevis Store on Amazon.