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› [Retevis](#) /

› [Retevis Ailunce HA1G GMRS Radio Instruction Manual](#)

Retevis HA1G GMRS

Retevis Ailunce HA1G GMRS Radio Instruction Manual

Model: HA1G GMRS | Brand: Retevis

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Retevis Ailunce HA1G GMRS Radio. Designed for rugged outdoor use, this two-way radio features IP67 waterproofing, NOAA weather alerts, USB-C charging, and repeater capability for extended range. Please read this manual thoroughly before using the device.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 2 x HA1G Radio Body & Antenna
- 2 x Battery
- 2 x Belt Clip & Sling & Cable
- 2 x USB Desktop Charger & Adapter
- 2 x User Manual

Package Includes



Figure 2.1: All components included in the Retevis Ailunce HA1G GMRS Radio package.

3. KEY FEATURES

- **Easy to Use:** Supports VFO mode and comes with a cable for simple setup. Side buttons can be configured for quick communication.
- **IP67 Waterproof:** Designed to operate normally in rainy or humid environments.
- **2800mAh Battery:** High-capacity rechargeable battery with convenient Type-C charging.
- **Long Range:** Equipped with 8 base station channels, extending call distance via repeaters.
- **Clear Sound:** Features squelch function and microphone gain for clear communication in noisy settings.
- **NOAA Function:** 12 NOAA channels for real-time weather warnings and updates.
- **CHIRP & VFO Mode:** Allows manual frequency setting via keyboard or PC programming for new channels.
- **Emergency Alarm:** Dedicated button to send an emergency signal to a preset recipient.

4. SETUP

4.1 Battery Installation

To install the battery, align the battery pack with the back of the radio and slide it into place until it clicks securely. Ensure the battery contacts are clean and properly aligned.

Figure 4.1: Rear view of the radio showing the battery compartment and contacts.

4.2 Antenna Attachment

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



Figure 4.2: The radio with its antenna attached, demonstrating its IP67 waterproof rating.

4.3 Charging the Radio

The HA1G GMRS radio can be charged using the provided USB desktop charger or directly via its Type-C port. Connect the USB-C cable to the radio and a compatible power source (e.g., mobile power bank, car charger, or wall adapter). The 2800mAh battery supports approximately 20 hours of working time and 153 hours of standby time.

High-Capacity Battery



Figure 4.3: The radio's 2800mAh battery provides extended usage, rechargeable via Type-C.

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Video 4.1: Demonstrates the Type-C rechargeable feature of the HA1G two-way radio.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off and Volume Control

To power on the radio, rotate the top-right knob clockwise. Continue rotating to adjust the volume. Rotate counter-clockwise until a click is heard to power off the device.

5.2 VFO Mode and Channel Selection

The HA1G supports VFO (Variable Frequency Oscillator) mode, allowing users to manually set frequencies directly from the keypad. Use the MENU button to access settings and the arrow keys to navigate. The intuitive menu page facilitates quick function settings.

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Video 5.1: An overview of the Retevis HA1G GMRS Ham Radio's display and basic functions.

5.3 Push-to-Talk (PTT) and Side Buttons

Press and hold the large side button to transmit. Release to listen. The side buttons are customizable; one can be set as a sub-PTT button for quick communication.

5.4 NOAA Weather Alert

The radio includes 12 NOAA channels to receive real-time weather warnings. This feature is crucial for outdoor enthusiasts to stay informed about changing weather conditions.

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Video 5.2: Explains the NOAA function of the Retevis Ailunce HA1G and its usage scenarios.

5.5 SOS Emergency Alarm

In an emergency, simply press the dedicated SOS button to send an alarm signal to a pre-configured recipient, enhancing safety during outdoor activities.

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Video 5.3: Demonstrates the SOS function and brightness adjustment display on the HA1G ham radio.

5.6 VOX Function

The VOX (Voice Operated Exchange) function allows for hands-free transmission. When activated, the radio will transmit automatically when it detects your voice, eliminating the need to press the PTT button.

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Video 5.4: Illustrates the VOX function of the Retevis Ailunce HA1G.

5.7 Display and Brightness

The HA1G features a large, color LCD screen that is easy to read. Brightness can be adjusted for optimal visibility in various lighting conditions.

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Video 5.5: Shows the HA1G's display readability in sunlight.

6. ADVANCED FUNCTIONS

6.1 CHIRP and PC Programming

The HA1G supports CHIRP software, allowing users to easily program new channels and settings via a PC. This provides flexibility for advanced users to customize their radio's functionality.

6.2 Repeater Capability

With 8 base station channels, the HA1G can connect to repeaters to significantly extend its communication range. This is particularly useful for long-distance communication in challenging terrains.

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Video 6.1: Instructions on how to add a repeater using the radio without requiring a PC.

6.3 CTCSS/DCS Tones

The radio features CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digitally Coded Squelch) functions to improve sound quality and enable clear communication by filtering out unwanted signals. These can be quickly turned on or off as needed.

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Video 6.2: Explains the necessity of CTCSS/DCS and how to quickly enable or disable it.

7. MAINTENANCE

7.1 Waterproofing (IP67)

The HA1G GMRS radio boasts an IP67 waterproof rating, meaning it is protected from dust and can withstand immersion in water up to 1 meter for 30 minutes. Ensure all port covers are securely closed before exposing the radio to water.



Figure 7.1: The HA1G radio demonstrating its IP67 waterproof capability.

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Video 7.1: Showcases the HA1G's IP67 waterproof rating.

7.2 Battery Care

To maximize battery life, charge the 2800mAh Lithium Ion battery fully before first use. Avoid extreme temperatures and store the radio with a partially charged battery if not used for extended periods.

8. TROUBLESHOOTING

If you encounter issues with your Retevis Ailunce HA1G GMRS Radio, consider the following common solutions:

- **No Power:** Ensure the battery is correctly installed and fully charged. Check the power/volume knob.
- **Cannot Transmit/Receive:** Verify that you are on the correct channel and frequency. Check antenna connection. Ensure CTCSS/DCS settings match the other party if used.
- **Poor Audio Quality:** Adjust squelch level and microphone gain settings. Ensure no obstructions are blocking the microphone or speaker.
- **Range Issues:** Ensure you are using the longer antenna for optimal performance. Consider using a repeater if available.

9. SPECIFICATIONS

Feature	Specification
Item Weight	11.9 ounces (337 Grams)
Package Dimensions	10.16 x 8.43 x 4.96 inches
Item Model Number	HA1G GMRS
Batteries	2 Lithium Ion batteries required (included)
Brand	Retevis
Color	Black
Number of Channels	256
Special Feature	Dust Proof, Long Range, Rechargeable, Waterproof, Weather Alert
Frequency Range	GMRS; dual band receive
Talking Range Maximum	5 Miles
Voltage	7.4 Volts (DC)
Water Resistance Level	Waterproof (IP67)

10. WARRANTY AND SUPPORT

Retevis provides a **2-year warranty** for the radio body and a **1-year warranty** for accessories. Additionally, there is a **30-day no-reason return policy**. Beyond the warranty period, maintenance services are offered, with buyers responsible for associated costs.

For support, please contact Retevis on Amazon. They aim to reply within 12 hours.