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Retevis HA1G

Retevis Ailunce HA1G GMRS Radio User Manual

Model: HA1G

1. INTRODUCTION

The Retevis Ailunce HA1G is a robust GMRS two-way radio designed for reliable communication in various environments. It features IP67 waterproofing, a long-lasting 2800mAh battery, NOAA weather alerts, and multiple channels including GMRS repeater channels. This manual provides essential information for the proper setup, operation, and maintenance of your HA1G radio.

2. PACKAGE CONTENTS

Please check the package for the following items:

- 1 x HA1G GMRS two-way radio
- 1 x Battery
- 1 x USB-C charging cable
- 1 x Desk charger
- 1 x Belt clip
- 1 x Lanyard
- 1 x User manual

Package Includes



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

3. PRODUCT FEATURES

- **IP67 Waterproof Rating:** The HA1G radio is designed to withstand submersion in water up to 1 meter for 30 minutes, making it suitable for outdoor and water-related activities.
- **Long Range Communication:** Includes 8 GMRS repeater channels and 256 memory channels, allowing for extended communication distances.
- **2800mAh Battery:** Equipped with a high-capacity battery for extended use, providing approximately 17 hours of working time and 5 days of standby time.
- **USB-C Charging:** Convenient charging via USB-C, compatible with power banks, vehicle chargers, and computers.
- **NOAA Weather Alerts:** Features 12 NOAA channels for receiving weather information and alerts, enhancing safety during outdoor activities.
- **Clear Sound:** Incorporates squelch function and microphone gain for clear and accurate audio transmission.
- **VFO Mode & CHIRP Support:** Offers VFO mode for flexible frequency tuning and supports CHIRP software for easy programming.
- **Emergency Alarm:** Multiple alarm modes for quick assistance in emergency situations.

- **1.77-inch Color Screen:** Provides clear display of channel and battery information, with excellent readability even in sunlight.
- **Dual-band Reception:** Strong compatibility with 2m and 70cm radios.



Figure 3.1: IP67 Waterproofing



Figure 3.2: USB-C Charging



Figure 3.3: 2800mAh Battery



Figure 3.4: 1.77-inch Color Screen



Figure 3.5: Dual-band Reception



Figure 3.6: Emergency Alarm



Figure 3.7: NOAA Weather Alert

Video: NOAA Function and Usage Scenarios

This video demonstrates the NOAA weather alert function and various usage scenarios for the Retevis Ailunce HA1G GMRS Radio, including its application for hikers and campers.

Video: Screen Readability in Sunlight

This video compares the screen readability of the Retevis Ailunce HA1G GMRS Radio in direct sunlight against another radio, highlighting its superior legibility.

4. SETUP

4.1 Battery Installation

1. Ensure the radio is powered off.
2. Align the battery with the battery compartment on the back of the radio.
3. Gently push the battery into place until it clicks securely.

4.2 Antenna Attachment

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

4.3 Charging the Battery

Before first use, fully charge the battery for 4-6 hours.

1. Connect the USB-C charging cable to the desk charger.
2. Place the radio with the battery installed into the desk charger. Ensure the charging contacts align.
3. The charging indicator on the charger will show the charging status.



Figure 4.1: USB-C Charging Port

5. OPERATING INSTRUCTIONS

5.1 Power On/Off and Volume Control

1. To power on, rotate the power/volume knob clockwise until you hear a "click" and the screen illuminates.
2. To adjust volume, continue rotating the knob clockwise to increase volume or counter-clockwise to decrease.
3. To power off, rotate the knob counter-clockwise until you hear a "click".

5.2 Channel Selection

The HA1G supports GMRS channels and memory channels.

- Use the Up/Down arrow buttons on the keypad to navigate through available channels.
- The radio includes 8 pre-programmed GMRS repeater channels and 256 memory channels for custom programming.

5.3 Transmitting and Receiving

1. To transmit, press and hold the Push-To-Talk (PTT) button on the side of the radio. Speak clearly into the microphone.
2. Release the PTT button to stop transmitting and return to receive mode.
3. The radio also features a programmable sub-PTT button for quick communication.



5.4 Privacy Codes (CTCSS/DCS) and Split Tones

Privacy codes (CTCSS/DCS) filter out unwanted transmissions, allowing you to only hear communications from radios using the same code. When connecting to repeaters, you may need to use different privacy codes for transmission and reception, known as split tones. The HA1G supports these features, which can be configured through the radio's menu or programming software.

5.5 NOAA Weather Alerts

The HA1G can receive NOAA weather channels and provide alerts for severe weather conditions. You can set up one of the dual channels to continuously monitor NOAA alerts while using the other for regular communication.

5.6 VFO Mode

VFO (Variable Frequency Oscillator) mode allows for direct frequency input and tuning, providing flexibility for advanced users to access specific frequencies not stored in memory channels.

5.7 FM Radio

The HA1G includes an FM radio function for entertainment or receiving local broadcasts when not actively using the two-way radio features.

6. MAINTENANCE

6.1 Battery Care

- Avoid overcharging or completely draining the battery.
- Store the battery in a cool, dry place when not in use.
- If the radio will not be used for an extended period, remove the battery.

6.2 Cleaning

- Wipe the radio with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure all port covers are securely closed to maintain waterproof integrity.

6.3 Storage

- Store the radio in a dry, dust-free environment.
- Keep out of direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Solutions
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Problem	Solutions
It does not work	<ol style="list-style-type: none"> 1. Step 1: Check the Power Source Charging: Please charge the battery using the original charger for at least 4-6 hours. Installation: Ensure the battery is correctly and firmly installed, with the metal contacts aligned properly. 2. Step 2: Check the Power Switch Locate the power/volume knob on the side. Turn it clockwise until you hear a "click" and see the screen or indicator light turn on. 3. Step 3: Check the Antenna Ensure the antenna is securely screwed on clockwise until it stops. A loose antenna can prevent the walkie-talkie from functioning correctly. 4. If the issue persists: Master Reset: Perform a "Factory Reset" (see your user manual for specific instructions). This clears any incorrect settings that may be causing the walkie-talkie to "freeze." Warning: This will erase all your custom settings and restore the walkie-talkie to its original factory state.
Will not take programming	<ol style="list-style-type: none"> 1. Step 1: Check the Connection & Drivers Ensure the programming cable is firmly connected to both the walkie-talkie and the computer. Confirm that the correct USB drivers for the programming cable are installed on your computer (available on the manufacturer's website). 2. Step 2: Check the Programming Software Verify that you are using the latest programming software specifically designed for your exact walkie-talkie model, downloaded from the official website. Open the programming software after the walkie-talkie is connected to the computer. 3. Step 3: Check the Walkie-Talkie's State Ensure the walkie-talkie is turned ON when connected to the computer for programming. 4. Pro Tip: Before using the software, try manually programming a channel using the walkie-talkie's keypad. If this works, the issue is likely with the computer connection (cable, driver, or software).

Problem	Solutions
Kept cutting out (Audio is choppy or drops)	<ol style="list-style-type: none"> 1. This is often related to signal strength and settings: 2. Step 1: Check battery level Please use a fully charged battery. Low power significantly reduces transmission strength and causes dropouts. 3. Step 2: Check the noise level settings Access the menu and find the "Squelch" or "SQL" setting. If set too high (e.g., level 5 or above), it will filter out weaker signals. We recommend gradually lowering the squelch level (to level 2 or 3) until you can hear a steady background static hiss. 4. Step 3: Check the tone codes (CTCSS/DCS) Confirm that your walkie-talkie and your partner's walkie-talkie are on the same channel AND have the exact same CTCSS or DCS tone settings (or both are set to "OFF"). Mismatched tones are a common cause of one party hearing broken audio or nothing at all.
It doesn't receive signals properly	<ol style="list-style-type: none"> 1. Antenna Check: Ensure the antenna is tightened and undamaged. This is the most common cause of the problem. 2. Squelch Setting: A squelch level set too high will prevent the walkie-talkie from receiving weak signals. Gradually decrease the squelch level until you can stably receive background noise. 3. Channel and Sub-tone Code Confirmation: Ensure that the channel and sub-tone code you are listening on are exactly the same as the transmitter's.

8. SPECIFICATIONS

Feature	Detail
Brand	Retevis
Model Number	HA1G
Color	Green
Number of Channels	256
Frequency Range	GMRS
Talking Range Maximum	5 Miles
Water Resistance Level	IP67 Waterproof
Battery Capacity	2800mAh (1 CR5 battery included)
Battery Average Life	20 Hours
Charging Type	USB-C Rechargeable
Item Weight	300 Grams
Voltage	7.4 Volts

Feature	Detail
Audible Noise	40 Decibels
Compatible Devices	FRS radios, GMRS radios, USB-C charging accessories
Temperature Range	-10°C ~ 55°C
Impedance	50 Ohms
Tuner Type	GMRS
Connectivity Protocol	GMRS

9. 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. For any issues or support inquiries, please contact Retevis customer service on Amazon. They aim to respond within 12 hours.

For further assistance, visit the official [Retevis Store on Amazon](#).