

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Retevis](#) /
- › [Retevis Ailunce H1 DMR Radio User Manual](#)

Retevis H1

Retevis Ailunce H1 DMR Radio User Manual

Model: H1
Brand: Retevis

INTRODUCTION

The Retevis Ailunce H1 is a dual-band digital two-way radio designed for reliable communication. It features advanced functionalities such as GPS and APRS for location tracking, AES256 encryption for secure transmissions, and a large contact capacity. Built with durable PC and ABS materials, it is suitable for various environments, including rescue operations and outdoor activities. The H1 supports both analog and digital modes, offering versatile communication options.





Figure 1: Retevis Ailunce H1 DMR Radio on its charging base.

SETUP

Package Contents

Before beginning, ensure all components are present:

- 1x Retevis Ailunce H1 Ham Radio
- 1x 2900mAh Battery
- 1x Type-C Charging Cable

- 1x Desktop Charging Base
- 1x Back Clip
- 1x Lanyard
- User Manual (this document)



Figure 2: Included components of the Retevis Ailunce H1 package.

Battery Installation and Charging

1. Align the 2900mAh Li-ion battery with the battery compartment on the back of the radio.
2. Gently push the battery into place until it clicks securely.
3. To charge, connect the Type-C charging cable to the radio or place the radio in the desktop charging base.
4. Connect the other end of the cable to a compatible USB power source. The charging indicator will illuminate.
5. A full charge typically takes approximately [Insert typical charging time if available, otherwise omit]. The radio can operate for up to 20 hours on a full charge.



Figure 3: The 2900mAh Li-ion battery and Type-C charging capability.

OPERATING INSTRUCTIONS

Power On/Off

To power on the radio, rotate the power/volume knob clockwise until you hear a click. To power off, rotate it counter-clockwise until it clicks.

Channel Selection

The Ailunce H1 supports 4000 channels. Use the channel selector knob or the keypad to navigate and select desired channels. The display will show the current channel information.

Transmitting and Receiving

To transmit, press and hold the Push-To-Talk (PTT) button located on the side of the radio. Speak clearly into the

microphone. Release the PTT button to receive. Ensure you are on an appropriate channel for communication.



Figure 4: The Talk Alias feature allows for personalized display names.

GPS and APRS Functionality

The radio's integrated GPS function allows for real-time location tracking and distance measurement between units. The APRS (Automatic Packet Reporting System) function enables tracking your location on a website, which is particularly useful for outdoor activities and rescue operations.



Figure 5: GPS and APRS functions for real-time location and data transmission.

Backlight Adjustment and Night Mode

The radio's display backlight can be adjusted for optimal visibility in various lighting conditions. A dedicated Night Mode is available to reduce screen brightness for comfortable viewing in low-light environments.

Your browser does not support the video tag.

Video 1: Demonstrates how to adjust the backlight brightness and activate Night Mode on the Retevis Ailunce H1 radio.

Safety Features

The Ailunce H1 includes several safety features:

- **Emergency Alarm:** Activates an alarm in emergency situations.
- **Lone Worker:** Provides an alert system for individuals working alone.
- **Man Down:** Automatically triggers an alarm if the radio detects a fall or prolonged inactivity, notifying teammates.
- **GPS Over Range Alarm:** Alerts the user if they exceed a predefined range, enhancing safety during rescue operations or exploration.



Figure 6: Multi-alarm functions for enhanced user safety.

MAINTENANCE

Cleaning

Wipe the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the Type-C port cover is securely closed to prevent dust and moisture ingress.

Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the radio and battery in a cool, dry place when not in use for extended periods. Recharge the battery at least once every three months if stored.

Storage

Store the radio in a clean, dry environment away from direct sunlight, extreme temperatures, and corrosive materials. Remove the battery if storing for more than one month.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery or re-install it securely.
Cannot transmit or receive.	Incorrect channel selected, out of range, or antenna issue.	Verify channel, move closer to other radios, check antenna connection.
Poor audio quality.	Low signal strength, interference, or volume too low.	Adjust volume, move to an area with better signal, check for interference sources.
Display backlight is too dim/bright.	Backlight settings need adjustment.	Navigate to "Settings" > "Backlight" or "Day/Night" to adjust. (Refer to Video 1)

SPECIFICATIONS

Model: H1

Brand: Retevis

Color: Black

Item Weight: 1.48 pounds

Package Dimensions: 8.98 x 7.44 x 3.39 inches

Batteries: 1 D battery required (included)

Number of Channels: 4000

Special Features: Digital/Analog, GPS, APRS, Talk alias, AES256, Type-C charging, 500K Contacts, 2 Time Slot

Talking Range Maximum: 5 Kilometer

Tuner Technology: U/V

Voltage: 7.4 Volts

Water Resistance Level: Not Water Resistant

WARRANTY & SUPPORT

Warranty Information

Retevis provides a 2-year warranty for the radio body and a 1-year warranty for accessories. A 30-day no-reason

return policy is also offered. For service beyond the warranty period, maintenance services are available, with buyers responsible for associated costs.

Customer Support

For any inquiries or support needs, please contact Retevis customer service on Amazon. Responses are typically provided within 12 hours.

Visit the official Retevis Store for more information and products:[Retevis Store on Amazon](#)