

Retevis Ailunce HA2

Retevis Ailunce HA2 Ham Radio User Manual

Model: Ailunce HA2 | Brand: Retevis

1. INTRODUCTION

The Retevis Ailunce HA2 is a high-power, dual-band ham radio designed for versatile communication. It features advanced capabilities such as APRS for real-time location sharing, multi-system satellite positioning (GNSS), and Bluetooth APP control for easy configuration. With an IP67 waterproof and dustproof rating, it is built to withstand challenging outdoor environments. The radio also supports CHIRP programming, airband reception, and offers flexible charging options.

2. SAFETY INFORMATION

Please read and understand all safety precautions before operating the device. Failure to do so may result in injury or damage to the radio.

- Do not operate the radio in explosive atmospheres (e.g., around flammable gas, dust, or powders).
- Do not modify the radio. Unauthorized modifications can void your warranty and violate regulations.
- Keep the radio away from extreme temperatures and direct sunlight.
- Use only approved batteries and chargers.
- Avoid prolonged exposure to high volume levels when using an earpiece to prevent hearing damage.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x HA2 Two Way Radio

- 1 x 2800mAh Battery
- 1 x Data cable & Earpiece
- 1 x Belt clip & Hand strap

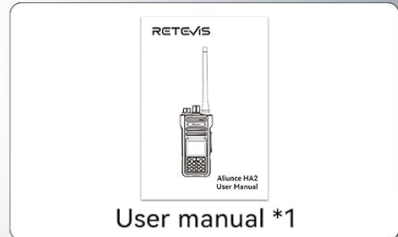
Package Includes



HA2 radio *1



Belt clip *1



User manual *1



Battery *1



Data cable *1



Handstrap *1



Adapter *1



Charging base *1



Charging cable *1



Earpiece *1

Image: Contents of the Retevis Ailunce HA2 Ham Radio package, including the radio, battery, earpiece, data cable, belt clip, and hand strap.

4. PRODUCT OVERVIEW

Familiarize yourself with the main components and controls of your Ailunce HA2 radio:



Image: Diagram of the Ailunce HA2 radio with labels pointing to the antenna, indicator light, PTT button, side keys, menu key, exit key, down key, function keys, channel knob, power/volume knob, dedicated alert button, speaker, and microphone/earpiece/data port.

5. SETUP

5.1 Battery Installation

Align the battery with the compartment on the back of the radio and slide it into place until it clicks securely. To remove, press the release latch and slide the battery out.

5.2 Charging the Battery

The Ailunce HA2 features a 2800mAh battery and offers flexible charging methods:

- **Charging Dock:** Place the radio in the provided charging dock.
- **USB-C Cable:** Connect a USB-C cable directly to the radio for convenient charging.

Using a 5V2A adapter, the battery can be fully charged in approximately 3 hours.

Multi-platform Support Overview



Image: The Ailunce HA2 radio being charged, highlighting its fast charging capability and 2800mAh battery.

Video: Demonstrates the flexible charging methods for the Retevis Ailunce HA2 ham radio, showing both the charging dock and direct USB-C cable connection.

5.3 App Control and CHIRP Programming

The Ailunce HA2 supports configuration via Bluetooth APP control and CHIRP software, offering multiple ways to customize your radio settings.

- **Bluetooth APP Control:** Use the smart RETEVIS app on your Android or iOS phone for one-touch Bluetooth pairing and easy operation.
- **CHIRP Support:** Program your radio functions using CHIRP software via PC cable, compatible with Windows, Mac, and Linux systems.

Fast Setup, Smarter Control

Wireless connection for easy customization

1. Easy setup via phone
2. Support Wireless mic/earpiece



Image: The Ailunce HA2 radio being configured wirelessly via a mobile application, illustrating easy setup and smart control.



Image: An overview of the multi-platform support for the Ailunce HA2, showing compatibility with Windows systems (CPS software), Chirp (Windows, Mac, Linux), and mobile apps (iOS & Android) for settings and firmware upgrades.

Video: Demonstrates connecting the Retevis Ailunce HA2 ham radio to a mobile app, reading and writing data, editing channels, and an overview of key functions.

Video: Shows the Bluetooth connectivity of the Retevis Ailunce HA2 two-way radio, enabling wireless control and configuration via a smartphone app.

6. OPERATION

6.1 Power On/Off and Volume

Rotate the Power/Volume knob clockwise to turn the radio on and increase volume. Rotate counter-clockwise to decrease volume and turn the radio off.

6.2 Channel Management

The Ailunce HA2 supports 1024 channels, providing ample capacity to avoid congestion. Channels can be managed directly on the radio or through the mobile app/CHIRP software as described in the Setup section.

Video: Highlights the 1024 channel capacity of the Retevis Ailunce HA2 ham radio, offering flexibility and reducing interference.

6.3 APRS and GNSS Positioning

Utilize the built-in APRS technology and multi-system satellite positioning (GNSS) for accurate location tracking and sharing.

- **Fast Position Acquisition:** Quickly pins your location even in challenging environments.
- **Location Sharing:** Share your real-time position over the air, connecting to the wider APRS network.
- **KISS Mode TNC:** Enables APRS operation via App/PC after Bluetooth SPP connection (requires firmware V1.0 update).



Image: A user holding the Ailunce HA2 radio in an outdoor setting, with an overlay showing GPS log information (Time, ID, Speed, Course, Lat, Lon), indicating its GNSS, APRS, and Compass capabilities for navigation.

6.4 Airband Reception

The Ailunce HA2 provides accurate, long-range airband reception, ensuring clear and stable signals across aviation bands for vital real-time information.

One-Key Pairing. Sync in Seconds

Instantly connect. No hassle.



Image: The Ailunce HA2 radio displaying an airband frequency (125.25000 MHz AM) with an airplane in the background, illustrating its precision airband reception capabilities.

6.5 IP67 Waterproof & Dustproof

The radio's robust IP67 rating ensures durability in various conditions:

- Resistant to sudden downpours and stream splashes.
- Can survive 1 meter underwater for 30 minutes.
- Built to endure mountain storms, dusty job sites, or coastal waves.

IP67 Waterproof

Go anywhere. Communicate without limits.

Survive 1m for 30 mins



Image: The Ailunce HA2 radio partially submerged in muddy water, demonstrating its IP67 waterproof capability.

Video: Shows the Retevis Ailunce HA2 ham radio being submerged in water and then retrieved, demonstrating its IP67 waterproof feature.

6.6 Other Features

- **Quiet Call:** When paired with a Retevis earpiece, allows for discreet communication.
- **Power Levels:** Adjust output power (High/Medium/Low) as needed.
- **Adjustable Backlight:** Customize the brightness of the 1.77-inch LCD display.
- **NOAA Function:** Receive NOAA weather alerts.
- **FM Radio:** Listen to commercial FM radio broadcasts.
- **One-Key Pairing:** Instantly connect with other compatible radios for fast communication.
- **Wireless Duplicate:** Effortlessly configure multiple radios with one-step full radio setup.

One-Step Full Radio Setup

Effortless, team-wide configuration



Image: Two Ailunce HA2 radios shown with a progress bar indicating 'Wireless Duplicate' at 435.562500 MHz, demonstrating the one-step full radio setup feature.

7. MAINTENANCE

To ensure optimal performance and longevity of your Retevis Ailunce HA2 radio, follow these maintenance guidelines:

- Clean the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure all port covers are securely closed when the radio is exposed to water or dust.
- Store the radio in a cool, dry place when not in use.
- Regularly check the antenna and battery contacts for any signs of damage or corrosion.

8. TROUBLESHOOTING

If you encounter issues with your Ailunce HA2, refer to the following common troubleshooting steps:

- **No Power:** Check if the battery is properly installed and charged. Ensure the power/volume knob is turned on.
- **Cannot Transmit/Receive:** Verify that you are on the correct frequency and channel. Check antenna connection. Ensure squelch level is not set too high.
- **Poor Audio Quality:** Adjust microphone gain settings. Check earpiece/microphone connection if applicable.
- **App Connection Issues:** Ensure Bluetooth is enabled on both the radio and your mobile device. Restart both devices and try pairing again.
- **APRS Not Working:** Confirm firmware V1.0 or later is installed and KISS mode TNC is correctly configured.

For persistent issues, please contact customer support.

9. SPECIFICATIONS

Feature	Specification
Brand	Retevis
Color	Black
Number of Channels	1024
Special Feature	APP Control, Bluetooth, IP 67 Waterproof
Voltage	7.4 Volts (DC)
Water Resistance Level	Waterproof
Product Dimensions	2.36"D x 8.07"W x 10.03"H
Number of Batteries	1 Nonstandard Battery batteries required. (included)
Item Weight	403.2 Grams
Audible Noise	40 Decibels
Connectivity Protocol	Bluetooth
Waterproof Rating	IP67
Model Number	Ailunce HA2
Unit Count	1.0 Count
Manufacturer	Retevis

10. WARRANTY AND SUPPORT

10.1 Warranty Information

Retevis provides a 2-year warranty for the radio body and a 1-year warranty for accessories. We also offer a 30-day no-reason return policy. Beyond the warranty period, maintenance services are available, with buyers responsible for corresponding costs.

10.2 Customer Support

For any inquiries or support needs, please contact Retevis customer service through Amazon. We aim to reply within 12 hours.