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> Retevis Ailunce HA1UV Dual Band Ham Radio Instruction Manual

Retevis HA1UV

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Model: HA1UV

1. INTRODUCTION

The Retevis Ailunce HA1UV is a robust dual-band handheld ham radio designed for reliable communication in various environments. It features IP67 waterproofing, NOAA weather alerts, and a 2800mAh USB-C rechargeable battery, making it suitable for outdoor and emergency use. This manual provides detailed instructions for setup, operation, and maintenance.

2. WHAT'S IN THE BOX

- 1 x HA1UV Two Way Radio
- 1 x 2800mAh Lithium-Ion Battery
- 1 x Data Cable
- 1 x Belt Clip & Hand Strap
- 1 x Type-C Charging Cable & Charging Base

PACKAGE INCLUDES

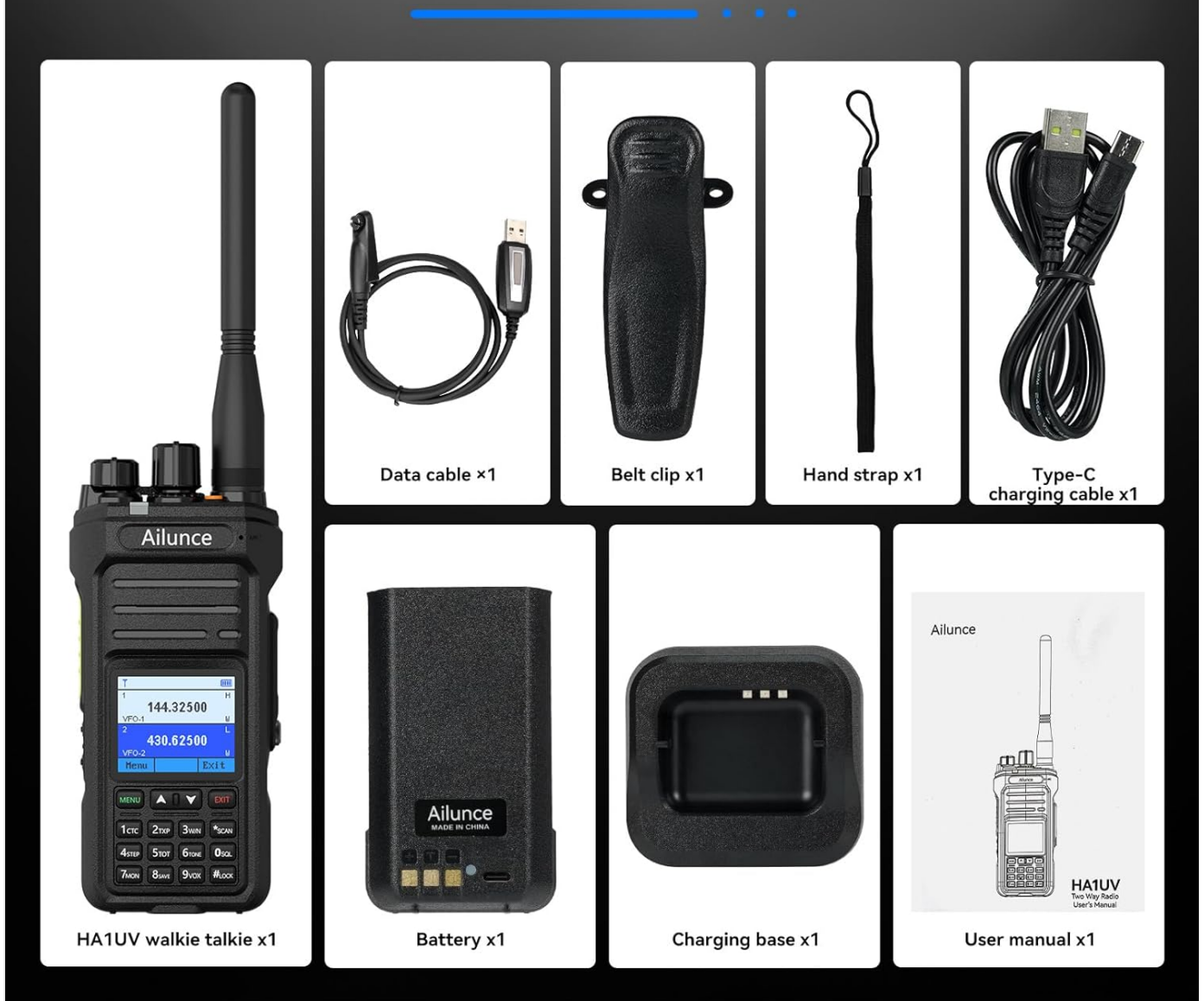


Figure 2.1: Package Contents - HA1UV radio, battery, data cable, belt clip, hand strap, Type-C charging cable, and charging base.

3. PRODUCT OVERVIEW

The HA1UV radio features a durable design with a 1.77-inch color screen and a backlit keypad for clear visibility and ease of use in various conditions.

BUILT WITH 2800MAH BATTERY



Work time: 20h



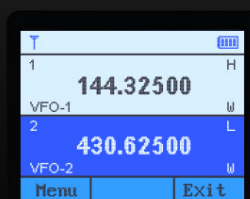
Type-C charging



Figure 3.1: 1.77-inch Color Screen for clear information display.

Adjustable Brightness

Clear to read the radio day or night



4. SETUP

4.1. Battery Installation and Charging

The HA1UV radio comes with a 2800mAh lithium-ion battery. Ensure the battery is fully charged before first use.

1. Attach the battery to the back of the radio, ensuring it clicks securely into place.
2. Connect the Type-C charging cable to the battery's USB-C port or place the radio in the charging base.
3. Connect the charging cable/base to a compatible USB power source. The charging indicator will show the charging status.

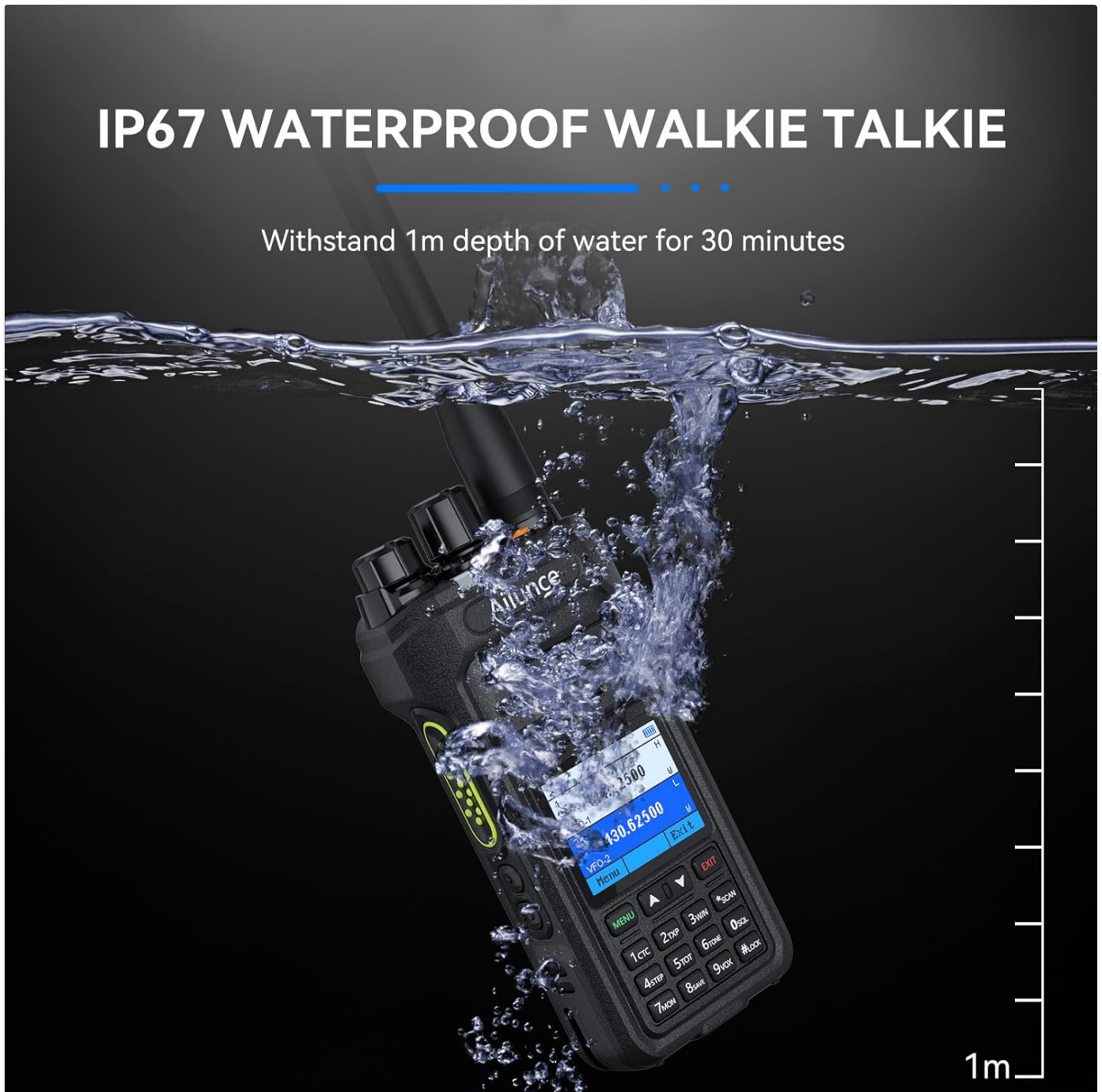


Figure 4.1: 2800mAh Battery with Type-C Charging.

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Video 4.1: Demonstrates the 2800mAh battery and Type-C charging capabilities of the Retevis Ailunce HA1UV radio.

4.2. Antenna Attachment

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

5. OPERATING INSTRUCTIONS

5.1. Power On/Off and Volume Control

To power on the radio, rotate the volume knob clockwise. To power off, rotate it counter-clockwise until it clicks. Adjust the volume by rotating the same knob.

5.2. Dual Band Operation

The HA1UV supports dual-band operation, allowing simultaneous monitoring of two different frequencies (2m/70cm bands). Use the VFO mode or programmed channels to select frequencies.



Figure 5.1: Dual Band Two Way Radio - 2m/70cm frequencies available.

5.3. CHIRP Support and Firmware Updates

The HA1UV radio supports CHIRP for easier programming. Latest firmware updates enable one-click frequency copying and aviation band reception. Regularly check the Retevis website for firmware updates.

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Video 5.1: Guide on how to perform a firmware update on the Retevis Ailunce HA1UV radio.

5.4. NOAA Weather Alert

The radio includes 12 NOAA channels to detect the latest weather information. An alert will notify you of severe weather conditions, helping to reduce potential risks.



Figure 5.2: NOAA Weather Alert feature on the HA1UV radio.

5.5. Emergency Alarm (SOS)

An orange alarm button on the top of the radio can immediately trigger a bright orange SOS signal light and an audible alarm. This feature is designed for rapid notification in emergency situations.

EMERGENCY ALARM

In the case of an emergency, keep you safe



Figure 5.3: Emergency Alarm button for immediate SOS signaling.

5.6. VFO Mode

VFO (Variable Frequency Oscillator) mode allows users to manually set frequencies directly through the keypad, offering flexibility for on-the-fly frequency adjustments without requiring PC software.

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Video 5.2: Instructions on how to add a repeater using the radio's VFO mode without a PC.

5.7. Key Lock Function

The radio features a key lock function to prevent accidental button presses. Refer to the menu settings for manual or automatic key lock modes and settings.

5.8. Sub-PTT Function

The Sub-PTT function allows transmission on two channels without switching between Band A and Band B, enhancing operational efficiency.

SUB-PTT FUNCTION

Transmit on two channels without switching the band A/B



Figure 5.4: Sub-PTT Function for transmitting on two frequencies.

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Video 5.3: Demonstration of the Retevis Ailunce HA1UV Dual Band Radio's Sub-PTT key functionality.

6. MAINTENANCE

6.1. Waterproofing (IP67)

The HA1UV radio is IP67 waterproof, providing protection against dust and immersion in water up to 1 meter for 30 minutes. Ensure all port covers are securely closed to maintain waterproofing.

1.77INCH COLOR SCREEN

Check the radio information clearly



Figure 6.1: IP67 Waterproof rating for the HA1UV radio.

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Video 6.1: Demonstrates the IP67 waterproof capabilities of the Retevis Ailunce HA1UV Two Way Radio.

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Video 6.2: Durability test of the Retevis Ailunce HA1UV radio, including a car rolling over it, showcasing its rugged build.

6.2. General Care

Clean the radio with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners. Store the radio in a dry, cool place when not in use.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery or re-install it securely.
No audio from speaker.	Volume is too low; squelch level too high; external speaker/mic connected.	Increase volume; adjust squelch; disconnect external accessories.
Cannot transmit or receive.	Incorrect frequency/channel settings; antenna not connected; low battery.	Verify frequency/channel; ensure antenna is attached; charge battery.
Keypad is unresponsive.	Key lock is active.	Deactivate key lock (refer to Key Lock Function section).

8. SPECIFICATIONS

- **Brand:** Retevis
- **Model:** HA1UV
- **Color:** Black
- **Number of Channels:** 256
- **Frequency Range:** U/V band
- **Talking Range Maximum:** 5 Mile
- **Voltage:** 7.4 Volts (DC)
- **Water Resistance Level:** IP67 Waterproof
- **Product Dimensions:** 2.36"D x 8.07"W x 10.03"H
- **Battery:** 1 x 2800mAh Lithium Ion (included)
- **Battery Average Life:** 20 Hours
- **Connectivity Protocol:** P25, DMR, NXDN
- **Temperature Range:** -10 to 55 Degrees Celsius
- **Item Weight:** 337 Grams

9. WARRANTY AND SUPPORT

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 support or warranty claims, please contact Retevis customer service on Amazon. They aim to reply within 12 hours.

Beyond the warranty period, maintenance services are available, with buyers responsible for associated costs.