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BAOFENG UV-32

BAOFENG UV-32 Ham Radio User Manual

Model: UV-32 | Brand: BAOFENG

1. Introduction

This manual provides detailed instructions for the operation and maintenance of your BAOFENG UV-32 Ham Radio. The UV-32 is a 10W high-power two-way radio featuring GPS, NOAA weather reception, APP programming, and multiple charging options, designed for reliable communication in various environments.



The BAOFENG UV-32 Ham Radio shown with its included accessories, including the radio unit, high-gain antenna, earpiece, belt clip, charging base, USB-C cable, and holster.

2. Package Contents

Verify that all items are present in your package:

- 1x BAOFENG UV-32 Radio Unit
- 1x High Gain Antenna (15.35 inches)
- 1x 2500mAh Capacity Lithium-ion Battery
- 1x Desktop Charging Base
- 1x USB-C Charging Cable
- 1x Power Adapter (for charging base)
- 1x Belt Clip
- 1x Hand Strap

- 1x User Manual

3. Setup

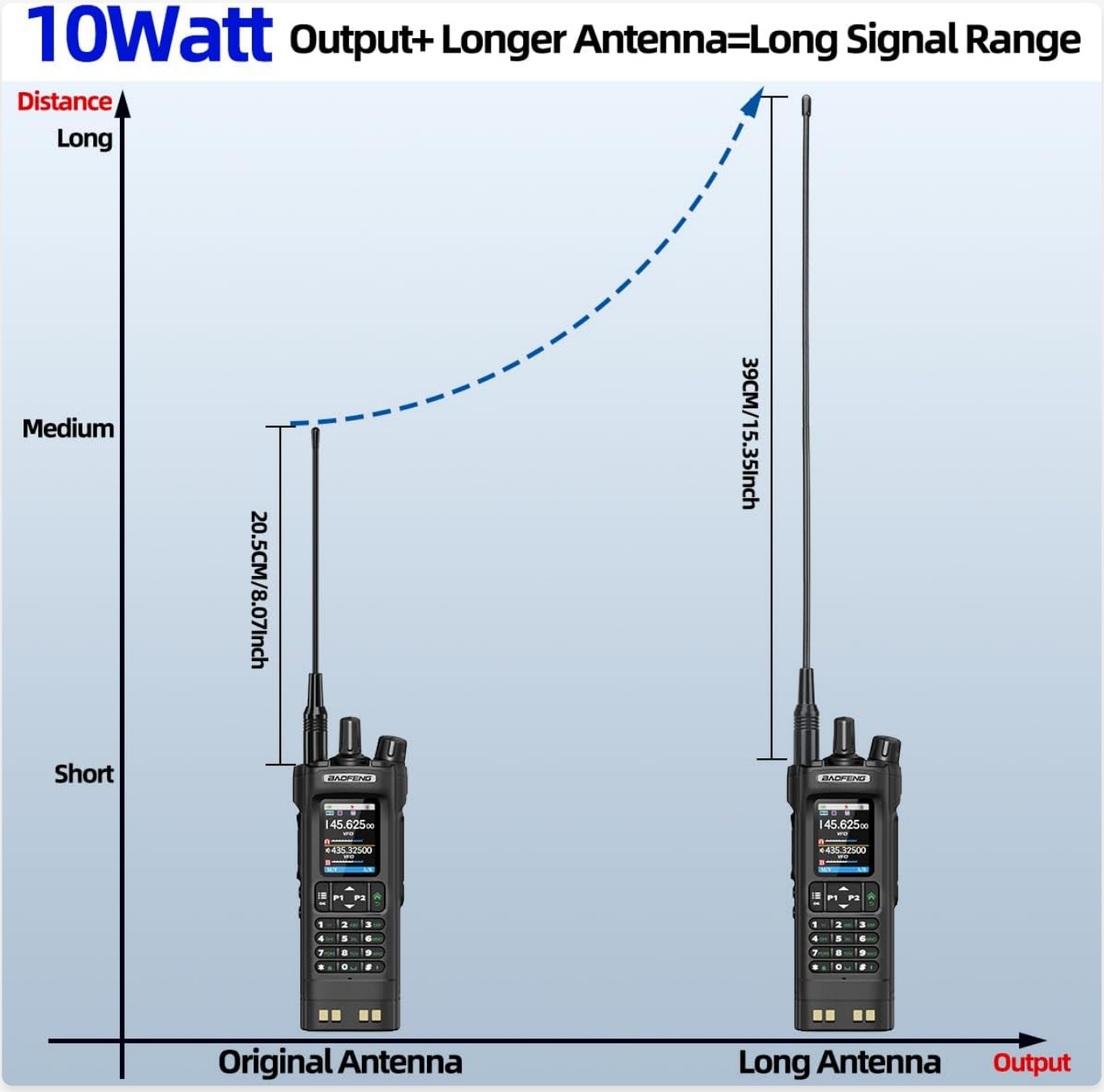
3.1. Battery Installation

1. Align the 2500mAh lithium-ion battery with the battery compartment on the back of the radio.
2. Slide the battery upwards until it clicks securely into place.
3. To remove, press the release latch (if present) and slide the battery downwards.

3.2. Antenna Attachment

The UV-32 comes with a high-gain antenna. For optimal performance, ensure it is properly attached.

1. Screw the high-gain antenna clockwise onto the antenna connector on top of the radio until it is finger-tight. Do not overtighten.
2. The longer 15.35-inch antenna is designed to improve signal strength and communication range.



Visual comparison illustrating the increased length and potential range improvement with the high-gain antenna (39cm / 15.35 inches) compared to a standard antenna (20.5cm / 8.07 inches).

3.3. Charging the Battery

The UV-32 supports multiple charging methods:

- **Desktop Charging Base:** Connect the power adapter to the charging base and plug it into a wall outlet. Place the radio (with battery installed) into the charging cradle. The indicator light will show charging status.
- **USB-C Direct Charging:** Connect the provided USB-C cable directly to the USB-C port on the radio and to any standard USB power source (e.g., computer, power bank, car charger).

Ensure the radio is powered off during charging for optimal battery life.



The BAOFENG UV-32 radio demonstrating various charging options: using the desktop charging base, connecting to a power bank via USB-C, and direct USB-C charging from a laptop.

4. Operating Instructions

4.1. Power On/Off

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

4.2. Basic Communication

1. Select your desired frequency or channel using the keypad or menu.
2. To transmit, press and hold the Push-to-Talk (PTT) button on the side of the radio. Speak clearly into the microphone.
3. Release the PTT button to receive.

4.3. Frequency Modification and Programming

The UV-32 offers flexible frequency management:

- **Side Key Copy Frequency:** Utilize programmable side keys to quickly copy frequencies from another radio. Refer to the menu settings for side key assignments.
- **APP Programming:** Use the dedicated mobile application to program frequencies and other settings. This provides a convenient graphical interface for customization.



The BAOFENG UV-32 radio displayed alongside a smartphone screen showing the 'Radio Tool' and 'walkietalkietool' applications, illustrating the phone APP programming capability for frequency and setting adjustments.

4.4. One Key Frequency Match

This feature allows for quick frequency synchronization with another radio.

1. Turn on the radio and long-press the designated 'frequency match' key (refer to your radio's specific key assignments).
2. When 'SEARCH' appears on the screen, press the appropriate key to switch the band if necessary.
3. Once the desired frequency appears, press the 'save channel' key to store it.



A visual guide demonstrating the three steps for 'One Key Frequency Match' on the BAOFENG UV-32: turning on and long-pressing a key, searching for frequency, and saving the channel.

4.5. GPS Function

The built-in GPS function allows for location tracking and display. Access the GPS menu to view your current coordinates.



Two BAOFENG UV-32 radios side-by-side, both displaying GPS coordinates on their screens, indicating the device's built-in GPS positioning capability.

4.6. NOAA Weather Reception

The UV-32 includes a NOAA weather forecast function to receive real-time weather conditions and emergency alerts. This feature is crucial for outdoor safety and emergency preparedness.



The BAOFENG UV-32 radio displayed with the NOAA Weather Radio logo and images depicting various weather events (flood, fire, earthquake, storm), highlighting its NOAA weather reception capability.

4.7. Power Switching (H/M/L)

The radio supports 10W high power and allows switching between High (H), Medium (M), and Low (L) power output modes to conserve battery or extend range as needed.



The BAOFENG UV-32 radio screen showing options to adjust transmission power to High (10W), Mid (5W), or Low (1W), with a visual representation of the different power levels.

4.8. Additional Functions

- **AM Reception:** Capable of receiving AM aviation band frequencies.
- **FM Radio:** Built-in FM radio for entertainment.
- **LED Flashlight:** Integrated flashlight for illumination in low-light conditions.
- **Stopwatch Timer:** A utility function for timing.
- **DTMF:** Dual-Tone Multi-Frequency signaling.
- **VOX:** Voice Operated eXchange for hands-free transmission.
- **Alarm Function:** For emergency signaling.
- **Intelligent Noise Reduction:** Enhances audio clarity during communication.



A graphic illustrating the 'Intelligent Noise Reduction' feature of the BAOFENG UV-32, showing sound waves before and after processing, indicating clearer audio output.

5. Maintenance

5.1. Battery Care

- Avoid fully discharging the battery frequently.
- Store the battery in a cool, dry place when not in use.
- Do not expose the battery to extreme temperatures.

5.2. Cleaning

- Wipe the radio with a soft, damp cloth.
- Do not use harsh chemicals or abrasive cleaners.

5.3. Water Resistance

The BAOFENG UV-32 is NOT water resistant. Avoid exposure to rain, splashes, or immersion in water to prevent damage.

5.4. Storage

When storing the radio for extended periods, remove the battery and store both components in a dry, temperature-controlled environment.

6. Troubleshooting

- **Radio not powering on:** Ensure the battery is correctly installed and charged. Check the volume knob position.
- **No signal/poor reception:** Verify the antenna is securely attached. Check frequency settings. Ensure you are within range of other radios or repeaters.
- **Cannot transmit:** Ensure the PTT button is fully pressed. Check if the frequency is busy or if there are transmit restrictions (e.g., CTCSS/DCS settings).
- **Charging issues:** Confirm the charging cable and adapter are properly connected. Check for damage to the cable or charging port.
- **GPS not acquiring signal:** Ensure you are in an open area with a clear view of the sky.

7. Specifications

Feature	Specification
Model Number	UV-32
Brand	BAOFENG
Output Power	10W (H/M/L switching)
Frequency Range	VHF 136-174MHz, UHF 400-480MHz
Number of Channels	1000
Battery Capacity	2500mAh Lithium-ion
Charging Methods	Desktop Charger, USB-C
Special Features	GPS, NOAA Weather, APP Programming, Copy Frequency, AM Reception, FM Radio, LED Flashlight, Stopwatch, DTMF, VOX, Alarm Function, Intelligent Noise Reduction
Antenna Length (High Gain)	15.35 inches (39cm)
Talking Range Maximum	5 Kilometer (under optimal conditions)

Feature	Specification
Water Resistance Level	Not Water Resistant
Item Weight	1.83 pounds
Package Dimensions	10.55 x 8.62 x 2.64 inches

8. Warranty Information

This product does not include a manufacturer's warranty.

9. Support

For further assistance or inquiries, please refer to the BAOFENG official website or contact your retailer.
BAOFENG Store Link: Visit the BAOFENG Store on Amazon

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