

BAOFENG UV-32

BAOFENG UV-32 Radio Instruction Manual

Model: UV-32

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your BAOFENG UV-32 10W High Power Multi-Band Handheld Radio. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

2. SAFETY INFORMATION

- Do not operate the radio in explosive atmospheres (e.g., flammable gases, dust particles, metallic powders).
- Do not expose the radio to direct sunlight for extended periods or place it near heating appliances.
- Avoid using the radio in areas with strong electromagnetic interference.
- Keep the radio dry. Do not immerse it in water or expose it to heavy rain. This device is not water resistant.
- Use only BAOFENG approved batteries and chargers.
- Do not attempt to disassemble or modify the radio. Repairs should only be performed by authorized service personnel.
- Maintain a safe distance from the antenna when transmitting to minimize RF exposure.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- BAOFENG UV-32 Radio (x1)
- 2500mAh Battery (x1)
- High Gain Antenna (x1)

- Charger (x1)
- Strap (x1)
- User Manual (x1)

4. PRODUCT OVERVIEW

The BAOFENG UV-32 is a high-power, multi-functional two-way radio designed for reliable communication. It features a 2.0-inch TFT large screen, GPS positioning, NOAA weather alerts, and USB-C charging.



Figure 4.1: BAOFENG UV-32 Radio Component Diagram

This diagram illustrates the various parts of the UV-32 radio, including the antenna, encoder/channel selector, TX/RX status indicator, power/volume knob, 2.0" color LCD screen, PTT key, side keys (SK1, SK2), numeric keypad, built-in microphone, charger contact, speaker, accessory port (2-pin K), and Type-C charging port.

BAOFENG

UV-32 Walkie Talkie

New Upgraded Radio with Multiple Functions



VOX



10W



DTMF



2500mAh
High Capacity



AM



FM



NOAA



GPS



1000 Channels



One Click Copying



Multi-Band



Type-C Charger



High Gain



Wireless
Programming



Figure 4.2: BAOFENG UV-32 Key Features

The image highlights the radio's main features: VOX, 10W high power, DTMF, 2500mAh high capacity battery, AM/FM radio, NOAA weather alerts, GPS, 1000 channels, one-click copying, multi-band capability, Type-C charger, high gain antenna, and wireless programming.

5. SETUP

5.1. Battery Installation

1. Align the battery pack with the grooves on the back of the radio.
2. Slide the battery pack upwards until it clicks into place.
3. To remove, press the battery release latch and slide the battery downwards.

5.2. Antenna Attachment

Screw the high gain antenna clockwise into the connector on the top of the radio until it is firmly seated. Do not overtighten.

5.3. Charging the Battery

The UV-32 features a Type-C USB charging port for convenience.

1. Connect the Type-C USB cable to the charging port on the radio.
2. Connect the other end of the cable to a compatible USB power source (e.g., wall adapter, power bank, laptop, car charger).
3. The charging indicator light will show red during charging and turn green when fully charged.

USB-C Charging

● Green: Fully Charged ● Red: Charging



Figure 5.1: USB-C Charging Status

The image shows the charging port and indicator light. Red indicates charging, and green indicates a full charge. The radio can be charged via various USB-C compatible power sources.

6. OPERATING INSTRUCTIONS

6.1. Power On/Off and Volume Control

- **Power On:** Rotate the Power/Volume knob (04 in Figure 4.1) clockwise until a click is heard. The display will light up.
- **Power Off:** Rotate the Power/Volume knob counter-clockwise until a click is heard.
- **Volume Adjustment:** Rotate the Power/Volume knob clockwise to increase volume and counter-

clockwise to decrease volume.

6.2. Channel Selection

The UV-32 supports up to 1000 channels. Use the Encoder/Channel Selector Switch (02 in Figure 4.1) or the Numeric Keypad (09 in Figure 4.1) to select channels.

- **Encoder:** Rotate the encoder to scroll through available channels.
- **Numeric Keypad:** Directly enter the channel number.

6.3. Transmitting and Receiving

- **Receiving:** When a signal is received, the TX/RX Status Indication (03 in Figure 4.1) will light up, and audio will be heard from the speaker.
- **Transmitting:** Press and hold the PTT (Push-To-Talk) Key (06 in Figure 4.1) to transmit. Speak clearly into the built-in microphone (10 in Figure 4.1). Release the PTT key to receive.

6.4. Multi-Band Operation

The radio supports a wide range of frequencies for both receiving (RX) and transmitting (TX).

Multi-Band

FM: 76-108MHz(RX)
AM: 108-136MHz(RX)
136-174MHz(RX)
220-260MHz(RX)
350-390MHz(RX)
400-520MHz(RX)
144-148MHz(TX)
420-450MHz(TX)

2.00" Screen Display

462.15250
Zone01 021
434.22500
Zone01 010
M/V A/B

Figure 6.1: Supported Multi-Band Frequencies

The UV-32 supports the following frequency ranges: FM: 76-108MHz (RX), AM: 108-136MHz (RX), 136-174MHz (RX), 220-260MHz (RX), 350-390MHz (RX), 400-520MHz (RX), 144-148MHz (TX), and 420-450MHz (TX).

6.5. Tri-Power Settings

Adjust the transmission power (High, Mid, Low) to optimize range and battery life.



Figure 6.2: Tri-Power Settings and GPS

This image displays the selectable power levels (High, Mid, Low) for transmission, allowing users to conserve battery or extend range as needed. It also visually represents the integrated GPS functionality for location tracking.

6.6. GPS Navigation

The built-in GPS provides precise location tracking for outdoor activities.

- Access the GPS function through the radio's menu.
- The display will show your current coordinates.
- Refer to the on-screen prompts for marking waypoints and navigating.

6.7. NOAA Weather Alerts

Stay informed with real-time weather alerts.



NOAA Weather Alarm

NOAA Detects and Predicts Extreme Weather Events in a Timely Manner.

10 NOAA

Sandstorm

Rainy

Blizzard

Rainstorm

Figure 6.3: NOAA Weather Alert System

The radio can receive 10 NOAA weather channels, providing timely alerts for extreme weather events such as sandstorms, heavy rain, blizzards, and rainstorms.

- Navigate to the NOAA weather channel section in the menu.
- The radio can monitor 10 NOAA weather channels for alerts.
- An alarm will sound if a weather alert is broadcast.

6.8. Wireless Frequency Programming & One-Key Scan

- **Wireless Programming:** Program channels instantly via a compatible smartphone application (refer to the BAOFENG website for app details). This eliminates the need for physical cables.
- **One-Key Scan:** Activate the scanning feature to automatically detect active channels and frequencies. This helps in finding clear communication channels quickly.

6.9. AM/FM Radio

The UV-32 includes an AM/FM radio for entertainment and information.

- Access the AM/FM radio function through the menu.
- Use the channel selector or numeric keypad to tune to desired stations.

6.10. VOX Function

VOX (Voice Operated Exchange) allows hands-free transmission. When enabled, the radio will transmit automatically when it detects your voice.

- Enable/disable VOX and adjust its sensitivity through the radio's menu settings.

6.11. DTMF Function

DTMF (Dual-Tone Multi-Frequency) signaling is used for various control functions, such as remote control of repeaters or selective calling.

- Refer to advanced programming guides for specific DTMF code setup and usage.

7. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the radio's surface. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** Store batteries in a cool, dry place. Do not short-circuit battery terminals. Recharge the battery regularly, even if not in use, to maintain its lifespan.
- **Antenna:** Ensure the antenna is securely attached. Avoid bending or stressing the antenna.
- **Storage:** If storing the radio for an extended period, remove the battery.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on	Low or dead battery; improperly installed battery	Charge the battery; ensure battery is correctly installed.
Cannot transmit or receive	Incorrect frequency/channel; antenna not attached; low battery	Verify channel settings; attach antenna securely; charge battery.
Poor audio quality	Weak signal; incorrect volume; microphone/speaker obstruction	Move to an area with better signal; adjust volume; check for obstructions.
GPS not acquiring signal	Indoor use; obstructed view of sky	Move to an open outdoor area with a clear view of the sky.

9. SPECIFICATIONS

Feature	Specification
Model Number	UV-32

Feature	Specification
Product Dimensions	1.59"D x 2.61"W x 7.09"H (4.04 x 6.63 x 18.01 cm)
Number of Channels	1000
Special Feature	GPS
Talking Range Maximum	10 Kilometers (approx. 6.2 miles)
Voltage	7.4 Volts (DC)
Water Resistance Level	Not Water Resistant
Compatible Devices	Smartphone (for wireless programming)
Battery Capacity	2500mAh
Charging Type	USB-C

10. WARRANTY AND SUPPORT

10.1. Warranty Information

The BAOFENG UV-32 radio comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or exposure to water.

10.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact BAOFENG customer support. Refer to the official BAOFENG website or your purchase documentation for the most current contact information.