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BAOFENG UV-32

BAOFENG UV-32 Multi-Band Two-Way Radio Instruction Manual

1. Introduction

The BAOFENG UV-32 is a versatile multi-band two-way radio designed for reliable communication across various environments. It supports both UHF and VHF bands, offering flexible communication options. Key features include NOAA FM and AM frequency reception for weather and emergency alerts, a built-in GPS module for accurate location information, and Bluetooth APP programming for convenient channel management. With 1000 channel storage, customizable side keys, and a durable design, the UV-32 is suitable for outdoor activities, emergency preparedness, and professional applications.

2. What's in the Box

Upon unpacking your BAOFENG UV-32 radio, please verify that all components are present as listed below. The image illustrates the standard factory configuration.



Image: The BAOFENG UV-32 radio shown with its complete set of accessories, including the radio unit, battery, antenna, charging base, power adapter, USB-C cable, earpiece, hand strap, and belt clip/pouch.

- BAOFENG UV-32 Two-Way Radio Unit
- Rechargeable Battery Pack
- Antenna
- Desktop Charger Base
- Power Adapter for Charger
- USB Type-C Charging Cable
- Earpiece with Microphone
- Belt Clip
- Hand Strap
- User Manual (this document)

3. Product Overview

3.1 Controls and Display

Familiarize yourself with the radio's controls and display for efficient operation. The diagram below highlights the key components.



Image: A detailed diagram of the BAOFENG UV-32 radio, pointing out and labeling its various external components such as the antenna, channel knob, volume knob/switch, PTT emission keys, menu/confirm button, side keys, digital keyboard, LCD display screen, headphone jack, home key, select key, and Type-C interface.

- **Antenna:** For transmitting and receiving radio signals.
- **Channel Knob:** Rotates to select channels.
- **Volume Knob/Switch:** Rotates to adjust volume; press to power on/off.
- **PTT Emission Key A/B:** Push-To-Talk buttons for transmitting on selected frequency/channel.
- **Menu/Confirm Button:** Accesses menu options and confirms selections.
- **Side Key One/Two:** Programmable function keys for quick access to features.
- **Digital Keyboard:** For direct frequency input, channel selection, and menu navigation.
- **LCD Display Screen:** Shows frequency, channel, battery status, and other operational information.
- **Headphone Jack:** For connecting an earpiece or external speaker microphone.
- **Home Key:** Returns to the main display or a pre-set home function.
- **Select Key:** Used for navigating menus and making selections.
- **Type-C Interface:** For charging the radio.



Image: Front, side, and rear views of the BAOFENG UV-32 radio, showcasing its ergonomic design and button placement from different angles.

4. Setup

4.1 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 securely into place.
3. Ensure the battery release latch is engaged to prevent accidental detachment.

4.2 Charging the Battery

Before first use, fully charge the battery. The UV-32 supports convenient Type-C charging.



Image: The BAOFENG UV-32 radio connected to a Type-C charging cable, illustrating the intelligent and convenient charging interface design.

1. Connect the Type-C charging cable to the radio's Type-C interface.
2. Connect the other end of the cable to a compatible USB power source (e.g., the provided power adapter).
3. Alternatively, place the radio with the battery installed into the desktop charger base. Ensure the charging contacts align.
4. The charging indicator light on the radio or charger will show the charging status (e.g., red for charging, green for fully charged).

4.3 Antenna Attachment

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

5. Operating Instructions

5.1 Power On/Off and Volume Control

1. To power on, press and hold the Volume Knob/Switch until the display illuminates.
2. To power off, press and hold the Volume Knob/Switch until the display turns off.
3. Rotate the Volume Knob/Switch clockwise to increase volume and counter-clockwise to decrease volume.

5.2 Multi-Band Operation (UHF/VHF)

The UV-32 supports dual-band operation, allowing communication on both Ultra High Frequency (UHF) and Very High Frequency (VHF) bands. This provides flexibility for different communication needs and environments.



Image: The BAOFENG UV-32 radio's display showing 'U/V DUAL FREQUENCY' along with 'AM Aviation frequency band reception' and 'FM radio', indicating its multi-band and reception capabilities.

The radio offers dual display and dual standby, enabling you to monitor two different frequencies simultaneously.

5.3 NOAA, FM, and AM Reception

Stay informed with the ability to receive NOAA weather broadcasts and other emergency alerts via FM and AM frequencies. This feature ensures you are prepared for changing conditions and can receive critical information.

5.4 GPS and APRS Functionality

Equipped with a built-in GPS module, the UV-32 provides accurate location information. Additionally, it supports APRS (Automatic Packet Reporting System) for location tracking and communication, which is ideal for outdoor activities, emergencies, or situations where positioning is crucial.

5.5 Bluetooth APP Programming

Easily manage and program frequencies and channels through a Bluetooth-enabled mobile application. This allows for quick and convenient customization of your radio settings on the go, enhancing operational efficiency.

5.6 Channel Management

The UV-32 can store up to 1000 channels, enabling rapid switching between various communication setups for maximum flexibility. Use the digital keyboard or channel knob to navigate and select stored channels.

5.7 Customizable Side Keys

Personalize the side keys (Side Key One and Side Key Two) to suit your specific needs. These can be programmed to provide quick access to frequently used functions, further enhancing user experience.

5.8 Call Functions (TDMA, Single, Group, Emergency)

The radio supports TDMA (Time Division Multiple Access) dual time slot technology, allowing two groups of calls to be conducted simultaneously on the same frequency point, optimizing frequency resource usage.



Image: The BAOFENG UV-32 radio's display showing 'TDMA Dual time slot technology', with text explaining that direct dual capacity mode communication enables two groups of calls simultaneously on the same frequency.

The UV-32 facilitates stable transmission of digital signals and supports diverse calling methods, including individual calls, group calls, all calls, one-click calls, and emergency calls.



Image: Two BAOFENG UV-32 radios displayed with text indicating 'Single call/group call' and 'Stable transmission of digital signals', highlighting the radio's capability for various call types.

5.9 Screen Display and Keyboard

The radio features a 2.00-inch screen display and a full keyboard design, providing clear visibility of information and easy input for frequencies and commands.



Image: A close-up view of the BAOFENG UV-32 radio's 2.00-inch screen display and its full digital keyboard, emphasizing the clear interface and comprehensive input options.

5.10 Power Output Settings

The UV-32 offers three power output settings: 10W (High), 5W (Medium), and 1W (Low). Select the appropriate power level based on your communication range requirements and to conserve battery life when high power is not needed.

5.11 SMS Functionality

The radio supports contact storage and SMS functionality, allowing you to send and receive short messages for enhanced communication capabilities.

5.12 One-Touch Frequency Matching

Quickly match frequencies with other compatible radios using the one-touch frequency matching feature, enabling seamless communication setup.

6. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or solvents.
- **Battery Care:** To prolong battery life, avoid overcharging or completely discharging the battery. Store the radio and battery in a cool, dry place when not in use for extended periods.
- **Storage:** When storing the radio for a long time, remove the battery pack.
- **Antenna:** Ensure the antenna is securely attached but not overtightened. Avoid bending or stressing the antenna.

7. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on	Battery is low or not installed correctly.	Charge the battery or ensure it is properly installed.
Cannot transmit or receive	Incorrect frequency/channel, antenna not connected, or out of range.	Verify frequency/channel settings. Ensure antenna is securely attached. Move closer to the other radio.
Poor audio quality	Weak signal, incorrect squelch level, or damaged earpiece.	Adjust squelch level. Move to an area with better signal. Test with a different earpiece if applicable.
Battery drains quickly	High power output setting, frequent transmission, or aging battery.	Use lower power output when possible. Reduce transmission time. Consider replacing the battery if it's old.

8. Specifications

Feature	Specification
Model Number	UV-32
Brand	BAOFENG
Manufacturer	Fujian Baofeng Electronics Co.,Ltd.
Frequency Bands	UHF, VHF (Dual Band)
Power Output	10W (High), 5W (Medium), 1W (Low)
Number of Channels	1000 (Storage) / 299 (Reported)
Battery Capacity	2500mAh Rechargeable Battery
Special Features	GPS, Bluetooth APP Programming, NOAA FM/AM Reception, TDMA Dual Time Slot, Customizable Side Keys, SMS Functionality, One-Touch Frequency Matching

Feature	Specification
Charging Interface	Type-C
Water Resistance Level	Not Water Resistant
UPC	755745371174

9. Warranty and Support

The BAOFENG UV-32 radio typically comes with a manufacturer's warranty. For specific warranty details and duration, please refer to the documentation provided with your purchase or contact the seller directly. Optional extended protection plans (e.g., 2-year or 3-year plans) may be available for purchase separately.

For technical support, troubleshooting assistance, or inquiries regarding your product, please contact the authorized BAOFENG dealer or the seller from whom you purchased the radio. They will be able to provide the most accurate and up-to-date support information.

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