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BAOFENG UV25M

BAOFENG UV-25M Ham Radio User Manual

Model: UV25M

Introduction

The BAOFENG UV-25M is a high-power, multi-band handheld ham radio designed for reliable communication across various environments. It features adjustable power settings, NOAA weather reception, and convenient Type-C charging. This manual provides detailed instructions for the proper setup, operation, and maintenance of your UV-25M radio.



Image: The BAOFENG UV-25M Ham Radio, showcasing its robust design and gooseneck antenna.

Package Contents

Verify that all items are present in your package:

- 1 × BAOFENG UV-25M Radio
- 1 × Original Antenna (Tactical Gooseneck Antenna)
- 1 × 5200 mAh Li-ion Battery
- 1 × Earpiece
- 1 × Charging Plug (US)
- 1 × USB Type-C Cable
- 1 × Belt Clip
- 1 × Hand Strap
- 1 × User's Manual

Product Overview

Familiarize yourself with the components and controls of your BAOFENG UV-25M radio.



Image: Labeled diagram of the BAOFENG UV-25M radio, indicating key components such as the antenna, PTT key, LCD screen, keyboard, power/volume knob, speaker, and accessory jack.

1. **Antenna:** For transmitting and receiving signals.
2. **Weather / Search Frequency Button:** Initiates weather scan or frequency search.
3. **PTT Key (Push-to-Talk):** Press and hold to transmit, release to receive.
4. **Broadcast FM / Monitor Button:** Toggles FM radio or monitors current frequency.
5. **Flashlight / Alarm Button:** Activates the LED flashlight or alarm function.
6. **Menu / VFO Mode Button:** Accesses the menu or switches between VFO (Variable Frequency Oscillator) and Memory modes.
7. **Keyboard:** For direct frequency input, channel selection, and menu navigation.
8. **Power / Volume Knob:** Turns the radio on/off and adjusts volume.
9. **Speaker:** Outputs audio.
10. **LCD Screen:** Displays frequency, channel, and status information.
11. **Exit / Freq Display Switch:** Exits menu or switches frequency display.
12. **LED Flashlight:** Provides illumination.
13. **Accessory Jack:** For connecting external audio accessories (earpiece, microphone).

Setup

1. Battery Installation and Charging

The UV-25M is powered by a 5200mAh Li-ion battery. Ensure the battery is fully charged before first use.

- **Installation:** Align the battery with the back of the radio and slide it into place until it clicks securely.
- **Charging:** Connect the provided USB Type-C cable to the radio's Type-C port and to the US charging plug. Plug the adapter into a power outlet. The charging indicator light will show charging status. Alternatively, the battery can be charged separately if removed from the radio.



Image: The BAOFENG UV-25M radio illustrating two charging methods: charging the entire unit via the Type-C port, and charging the battery separately.

2. Antenna Attachment

Screw the tactical gooseneck antenna clockwise onto the antenna connector at the top of the radio until it is finger-tight. Do not overtighten.



Image: The BAOFENG UV-25M radio with its gooseneck antenna, highlighting its multi-band capabilities and NOAA weather reception feature.

Basic Operation

1. Power On/Off and Volume Adjustment

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



Image: Close-up of the BAOFENG UV-25M radio, emphasizing the volume control knob and the clear sound output from its speaker.

2. Channel/Frequency Selection

Use the up/down arrow keys on the keypad to navigate through channels or frequencies. Direct frequency input is possible using the numeric keypad in VFO mode.

3. Transmitting and Receiving

To transmit, press and hold the **PTT (Push-to-Talk)** key on the side of the radio. Speak clearly into the microphone. Release the PTT key to return to receive mode.

Advanced Features

1. 11W Tri-Power Output

The UV-25M offers three adjustable power settings: 11W (High), 8W (Medium), and 5W (Low). This allows you to optimize power consumption and transmission range based on your communication needs and environment.



Image: The BAOFENG UV-25M radio screen showing the selectable power output levels: 11W (High), 8W (Mid), and 5W (Low).

2. Multi-Band and NOAA Weather Reception

The radio supports a wide range of frequencies:

- **Transmit (TX):** 144-148MHz, 420-450MHz
- **Receive (RX):** 136-174MHz, 220-260MHz, 400-520MHz, FM 65-108MHz

It also includes the ability to scan and receive NOAA weather broadcasts in the US and Canada, providing critical weather alerts.

3. One-Key Frequency Match

This feature simplifies the process of matching frequencies with another radio. Activate the one-key frequency match function to quickly scan and synchronize with a companion's walkie-talkie, streamlining communication setup.



Image: A visual representation of the one-key frequency matching process, showing two radios establishing a connection after one initiates a scan.

4. PC & Manual Programmable

The UV-25M can be programmed via computer software (programming cable not included) or directly through the radio's keypad. This allows for customization of memory channels, scanning lists, VOX levels, squelch, and power save settings.

5. CTCSS and DCS Codes

The radio supports 50 CTCSS (Continuous Tone-Coded Squelch System) tones and 210 DCS (Digitally Coded Squelch) codes. These codes help to filter out unwanted interference and enhance communication privacy by only opening the squelch when a signal with the matching tone/code is received.

6. VOX Function

VOX (Voice Operated Exchange) allows for hands-free transmission. When activated, the radio will automatically transmit when it detects your voice, eliminating the need to press the PTT button.

Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or solvents.
- **Battery Care:** Avoid fully discharging the Li-ion battery frequently. Store the radio and battery in a cool, dry place when not in use for extended periods.
- **Antenna:** Ensure the antenna is securely attached. Avoid bending or stressing the antenna excessively.

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	Antenna not connected; incorrect frequency/channel; squelch too high	Attach antenna securely; verify frequency/channel settings; adjust squelch level.
Poor audio quality	Low signal strength; incorrect volume; external accessory issue	Move to an area with better signal; adjust volume; check external earpiece/microphone connection.
NOAA weather alerts not received	Not in NOAA scan mode; out of NOAA broadcast range	Activate NOAA scan; ensure you are within broadcast coverage.

Specifications

Feature	Detail
Model Number	UV25M
Brand	BAOFENG
Product Dimensions	2.36 x 1.57 x 13.38 inches (6 x 4 x 34 cm)
Item Weight	1.98 pounds (900 Grams)
Batteries	1 Lithium Ion battery required (included)
TX Frequencies	144-148MHz, 420-450MHz
RX Frequencies	136-174MHz, 220-260MHz, 400-520MHz, FM 65-108MHz
Power Output	11W (High), 8W (Medium), 5W (Low)
Channels	999
Special Features	Adjustable Receiver Sensitivity, Digital Display, Dual Band, Long Range, Weather Alert (NOAA)

Feature	Detail
Connectivity Technology	USB Type-C

Safety Information

- Do not operate the radio in explosive atmospheres (e.g., near flammable gas, dust particles, metallic powders).
- Do not expose the radio to direct sunlight for extended periods or to extreme temperatures.
- Keep the radio away from medical devices to avoid interference.
- Use only BAOFENG approved accessories. Unauthorized accessories may damage the radio or void the warranty.
- Do not disassemble or modify the radio. Repairs should only be performed by qualified technicians.
- Ensure the antenna is properly connected before transmitting to prevent damage to the radio.

Official Product Video

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Video: An overview of the BAOFENG UV-25M Ham Radio, demonstrating its features and design. This video highlights the rigid frame, adjustable power, one-key frequency matching, Type-C charging, and the long antenna for outdoor use.

Warranty and Support

For warranty information and technical support, please refer to the documentation included with your product or contact BAOFENG customer service. Keep your purchase receipt as proof of purchase for warranty claims.

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