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BAOFENG UV 22

BAOFENG UV-22 Ham Radio User Manual

Model: UV-22

1. Introduction

Thank you for choosing the BAOFENG UV-22 Ham Radio. This handheld two-way radio is an upgraded version of the popular UV-5R, designed for long-range communication with enhanced features. It supports dual-band operation, frequency copy, and offers a robust set of functionalities for both amateur radio enthusiasts and general communication needs. This manual provides detailed instructions for the proper setup, operation, and maintenance of your UV-22 radio.

Key Features:

- 999 Memory Channels for extensive frequency storage.
- UHF/VHF Dual Band operation for versatile communication.
- CTCSS/DCS for enhanced privacy and selective calling.
- VOX Mode for hands-free operation.
- A/B band independent operation, dual display, and dual standby.
- Auto Keypad Lock to prevent accidental input.
- Type-C USB charging for convenient power options.
- NOAA Weather Alert for critical weather updates.
- Integrated LED flashlight for emergency illumination.
- Wireless Frequency Copy function for quick channel matching.



Figure 1: Overview of BAOFENG UV-22 Key Features.



Figure 2: Comparison between BAOFENG UV-22 and UV-5R.

2. What's in the Box

Upon opening your BAOFENG UV-22 package, please verify that all the following items are included:

- BAOFENG UV-22 Walkie Talkie Unit (x1)
- Lithium-Ion Battery (x1)
- Type-C USB Charging Cable (x1)
- 21CM High Gain Antenna (x1)
- Screwdriver (x1)
- Belt Clip (x1)
- Hand Strap (x1)
- Headset (x1)

- Speaker Microphone (x1)
- USB Programming Cable (x1)
- User Manual (x1)



Figure 3: Contents of the BAOFENG UV-22 Package.



Figure 4: Detailed view of included accessories.

3. Setup

3.1. 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 release latch at the bottom of the battery and slide it downwards.

3.2. Antenna Attachment

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

3.3. Charging the Battery

The BAOFENG UV-22 supports convenient Type-C USB charging.

1. Connect the Type-C USB cable to the charging port on the side of the radio.
2. Connect the other end of the cable to a compatible USB power source (e.g., wall adapter, power bank, car charger, laptop USB port).
3. The charging indicator on the radio will illuminate during charging and change color or turn off when fully charged.
4. A full charge typically takes approximately 4-5 hours.



Figure 5: Type-C Charging Options.

3.4. Attaching Accessories (Optional)

- **Belt Clip:** Attach the belt clip to the back of the radio using the provided screws and screwdriver.
- **Hand Strap:** Loop the hand strap through the designated slot on the radio for secure carrying.
- **Headset/Speaker Mic:** Plug the 2-pin connector of the headset or speaker microphone into the audio jack on the side of the radio.

4. Operating Instructions

4.1. Power On/Off and Volume Control

- **Power On:** Rotate the **POWER/VOLUME** knob clockwise until you hear a click. The display will light up.
- **Power Off:** Rotate the **POWER/VOLUME** knob counter-clockwise until you hear a click. The display will turn off.
- **Volume Adjustment:** Rotate the **POWER/VOLUME** knob to adjust the audio output level.

4.2. Channel/Frequency Selection

- The UV-22 operates in both Frequency Mode (VFO) and Channel Mode (Memory).
- Press the **VFO/MR** button to switch between modes.
- In Frequency Mode, use the keypad to directly input frequencies or the **UP/DOWN** arrow keys to adjust.
- In Channel Mode, use the **UP/DOWN** arrow keys to cycle through stored channels.
- The radio supports 999 memory channels.

4.3. Transmitting (PTT Button)

- To transmit, press and hold the **PTT (Push-To-Talk)** button on the left side of the radio.
- Speak clearly into the microphone, holding the radio approximately 2-5 cm from your mouth.
- Release the **PTT** button to stop transmitting and return to receive mode.

4.4. NOAA Weather Alert

The UV-22 can scan 10 NOAA Weather channels and provide alerts for severe weather conditions.

- Access the NOAA weather function through the radio's menu. Refer to the detailed menu guide in the full user manual for specific steps.
- When enabled, the radio will alert you if there is a risk of bad weather, providing crucial time for preparation.

4.5. LED Flashlight

The integrated LED flashlight can be activated for illumination in dark environments.

- Typically, the flashlight is activated by a dedicated button or a long press of a function key. Consult the radio's button layout for exact activation.

4.6. Wireless Frequency Copy (One Key Quick Match)

This feature allows for quick and easy copying of frequencies from another radio.



Figure 6: Wireless Frequency Copy in action.

1. Place the two radios in close proximity.
2. Activate the "Wireless Frequency Copy" or "One Key Quick Match" function on both radios (refer to your radio's menu for exact steps).
3. The radios will automatically detect and copy the frequency settings, simplifying channel synchronization.

5. Maintenance

5.1. General Care

- Keep the radio dry. Avoid exposure to rain, moisture, or liquids.
- Clean the radio with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Avoid extreme temperatures. Do not store the radio in very hot or cold environments.
- Protect the antenna from bending or breaking.

5.2. Battery Care

- Charge the battery fully before first use.
- Do not overcharge or deep discharge the battery.
- If the radio will not be used for an extended period, remove the battery and store it in a cool, dry place.
- Replace the battery if its operating time significantly decreases.

6. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery or re-install it securely.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not attached, or out of range.	Verify frequency/channel settings. Ensure antenna is securely attached. Move closer to the other radio.
Poor audio quality or static.	Weak signal, interference, or low battery.	Check signal strength. Move away from sources of interference. Charge battery.
Keypad is unresponsive.	Keypad lock is active.	Unlock the keypad (refer to your radio's button layout for the unlock combination, usually a long press of a specific key).
Programming software (CHIRP) does not recognize radio.	Incorrect driver or software version.	Ensure correct USB driver is installed. Use the latest compatible programming software for UV-22 (e.g., specific Baofeng software or updated CHIRP).

7. Specifications

Feature	Detail
Model	UV-22
Brand	BAOFENG
Number of Channels	999
Frequency Range (Receive)	VHF: 136-174MHz, UHF: 400-520MHz
Frequency Range (Transmit)	VHF: 144-148MHz, UHF: 420-450MHz
Talking Range Maximum	5 Miles (approx. 8 km)
Battery Type	Lithium Ion (included)
Charging Method	Type-C USB
Item Weight	1.4 pounds (approx. 0.64 kg)
Package Dimensions	7.95 x 4.72 x 4.17 inches (approx. 20.2 x 12 x 10.6 cm)
Water Resistance Level	Waterproof (as per product description, implies resistance, not submersible)
FCC ID	2AJGM-UV17

8. Warranty and Support

8.1. Warranty Information

The BAOFENG UV-22 comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or contact BAOFENG customer service for detailed warranty terms and conditions.

8.2. Customer Support

For technical assistance, troubleshooting, or any inquiries regarding your BAOFENG UV-22 radio, please contact BAOFENG customer service. Contact information can typically be found on the manufacturer's official website or on the packaging.

Note: The product description mentions "All day customer service replies to ensure your purchase enjoyment."

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For more information, visit the official BAOFENG website.

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