

## BAOFENG UV-22R

# BAOFENG UV-22R Two-Way Radio User Manual

Your comprehensive guide to operating and maintaining your BAOFENG UV-22R radio.

## 1. INTRODUCTION

The BAOFENG UV-22R is a versatile and powerful two-way radio designed for reliable communication. Featuring a 1.77-inch LCD screen, full keyboard, and 999 memory channels, it offers extensive functionality for various applications. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance of your device.



Image 1.1: The BAOFENG UV-22R radio shown with its included accessories, including the tactical antenna, USB-C charging cable, and earpiece.

## 2. What's in the Box

Please verify that all items are present in your package:

- 1x Portable Radio (BAOFENG UV-22R)
- 1x Original High Gain Antenna
- 1x Type-C Charger Cable
- 1x 2500mAh Li-ion Battery

- 1x Belt Clip
- 1x Sling
- 1x Charger (Desktop Charging Cradle)
- 1x User's Manual
- 1x 18.89in Tactical Antenna
- 1x Earpiece

## 3. INITIAL SETUP

### 3.1. Battery Installation

1. Ensure the radio is powered off.
2. Align the 2500mAh Li-ion battery with the battery compartment on the back of the radio.
3. Slide the battery into place until it clicks securely.

### 3.2. Antenna Attachment

1. Screw the desired antenna (either the original high gain or the 18.89in tactical antenna) clockwise onto the antenna connector at the top of the radio until it is finger-tight. Do not overtighten.

### 3.3. Charging the Battery

The UV-22R supports both desktop charging and USB-C direct charging.

- **Desktop Charger:** Place the radio with the battery installed into the charging cradle. Ensure the charging indicator light illuminates.
- **USB-C Charging:** Connect the provided Type-C charger cable to the USB-C port on the side of the radio and to a compatible USB power source (e.g., wall adapter, power bank, car charger).

A full charge typically takes several hours. The charging indicator will change color or turn off when charging is complete.

### 3.4. Powering On/Off

Rotate the power/volume knob clockwise to power on the radio. Continue rotating to adjust the volume. Rotate counter-clockwise until a click is heard to power off the radio.

## 4. OPERATING INSTRUCTIONS

### 4.1. Display Overview



Image 4.1: The 1.77-inch color LCD screen of the BAOFENG UV-22R, displaying frequency information and status icons.

The 1.77-inch LCD screen provides clear information on current operating status, including frequency, channel number, battery level, signal strength, and various function indicators.

## 4.2. Channel and Frequency Selection

The UV-22R supports up to 999 named memory channels and VFO (Variable Frequency Oscillator) mode for direct frequency input.

- **VFO Mode:** Use the keypad to directly enter frequencies. The frequency step can be selected between 2.5K, 5.0K, 6.25K, 10.0K, 12.5K, 20.0K, 25.0K, and 50.0K via the menu.
- **Channel Mode:** Use the up/down arrow keys or the rotary knob to navigate through stored channels.
- **Channel Naming:** The built-in input method allows you to edit and name channels for easier identification.

## 4.3. Scanning Functions



Image 4.2: The radio's display showing a frequency scan in progress, indicating its ability for quick channel discovery.

The radio offers various scanning capabilities:

- **VFO Scan:** Scans within a user-defined frequency range.
- **Channel Scan:** Scans through programmed memory channels.
- **CTC/DCS Scan:** Scans for CTCSS/DCS tones on a received signal.
- **Scan Recovery Methods:** Three methods are available to resume scanning after a signal is detected.

#### 4.4. Advanced Features

- **VOX (Voice Activated Transmit):** Allows hands-free operation by transmitting when your voice is detected.
- **DTMF Encoder and Manual Dial:** For sending DTMF tones, useful for repeater access or selective calling.
- **Dual Watch/Dual Reception:** Monitors two different frequencies or channels simultaneously.
- **Squelch Adjustment:** Ten (10) levels of squelch adjustment to filter out weak signals and background noise.
- **NOAA Weather Radio:** Access NOAA weather alerts for critical weather information.
- **FM Radio Receiver:** Listen to broadcast FM radio stations.
- **Keypad Lock:** Prevents accidental key presses.
- **Alarm Function:** Activates an audible alarm.
- **High/Low Power Selectable:** Choose between high (5W) or low power output to conserve battery or for short-range communication.
- **CTCSS/DCS Tones:** 50 CTCSS tones and 105 DCS codes for private group communication.



Image 4.3: Illustration of the DTMF function, enabling analog signaling for single, group, or all calls.

## 5. MAINTENANCE

### 5.1. Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the USB-C port and antenna connector are free from dust and debris.

### 5.2. 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.

- Do not expose the battery to extreme temperatures.

5.3. Storage

When storing the radio for long periods, remove the battery and store it separately. Keep the radio in a protective case to prevent damage.

6. TROUBLESHOOTING

If you encounter issues with your BAOFENG UV-22R, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on	Low or dead battery; improperly installed battery	Charge the battery; ensure battery is correctly installed.
No reception or poor audio	Antenna not connected; squelch level too high; incorrect frequency/channel; out of range	Check antenna connection; adjust squelch level; verify frequency/channel; move closer to transmitting radio.
Cannot transmit	Low battery; incorrect frequency/channel; Busy Channel Lock Out (BCLO) active	Charge battery; verify frequency/channel; disable BCLO in menu if necessary.
Keypad unresponsive	Keypad lock is active	Deactivate keypad lock (refer to operating instructions for specific key combination).

7. SPECIFICATIONS



Image 7.1: Physical dimensions of the BAOFENG UV-22R radio.

Feature	Detail
Model Number	UV-22R
Frequency Range	VHF: 144-148MHz, UHF: 420-450MHz

Feature	Detail
Output Power	5W (High/Low selectable)
Number of Channels	999
Display	1.77-inch LCD Screen
Battery	2500mAh Lithium Ion
Charging	USB-C, Desktop Charger
Dimensions (H x W x D)	5 x 2.4 x 1.5 inches (approx. 127 x 61 x 38 mm)
Weight	1.37 pounds (approx. 621 grams)
Special Features	NOAA Weather, VOX, DTMF, Dual Watch, FM Radio, CTCSS/DCS, Programmable Repeater Offset
Water Resistance Level	Not Water Resistant

## 8. WARRANTY AND SUPPORT

### 8.1. Warranty Information


The BAOFENG UV-22R radio comes with a 1-year warranty. This warranty is provided exclusively through "Shiqun Electronics Co., Ltd". Please retain your proof of purchase for warranty claims.



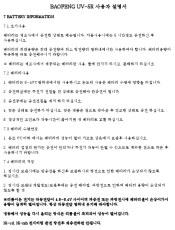

### 8.2. Technical Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the seller or manufacturer directly. Refer to your purchase documentation for specific contact details.

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### Related Documents - UV-22R

<div></div>	<div><a href="#">BAOFENG UV-5RM PLUS (GPS) Multi-Band Amateur Radio User Manual</a></div> <div>Explore the BAOFENG UV-5RM PLUS (GPS) Multi-Band Amateur Radio with this comprehensive user manual. Learn about its advanced features, including GPS, APRS, DTMF, and multi-band scanning, designed for reliable communication for both professional and recreational users. This guide covers operation, safety, battery information, and FCC compliance.</div>
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	<p><a href="#">Baofeng UV-82, UV-9R Plus, UV-XR Radio Transceiver User Manual</a></p> <p>Comprehensive user manual for Baofeng UV-82, UV-9R Plus, and UV-XR radio transceivers, covering safety, features, assembly, battery usage, controls, LCD display, operation modes, built-in functions, menu settings, CTCSS/DCS tones, and technical specifications.</p>
<p>Kabel USB do Baofeng UV-5R, UV-82, UV-6R, BF-888s</p> 	<p><a href="#">Programowanie Radiotelefonów Baofeng za pomocą Oprogramowania CHIRP</a></p> <p>Przewodnik krok po kroku dotyczący programowania radiotelefonów Baofeng UV-5R, UV-82, UV-6R, BF-888s przy użyciu kabla USB i oprogramowania CHIRP. Zawiera instrukcje instalacji sterowników, podłączania, konfiguracji pamięci i ustawień zaawansowanych.</p>
	<p><a href="#">BAOFENG UV-5R VHF/UHF FM Transceiver User Manual</a></p> <p>Comprehensive user manual for the BAOFENG UV-5R VHF/UHF FM Transceiver, covering operation, features, battery care, troubleshooting, and programming. Learn how to use this dual-band, dual-watch amateur radio with CTCSS/DCS, VOX, and DTMF functions.</p>
	<p><a href="#">Baofeng UV-5R : _____</a></p> <p>Baofeng UV-5R , , , , .</p>
	<p><a href="#">BAOFENG UV-5X Two Way Radio User Manual</a></p> <p>Comprehensive user manual for the BAOFENG UV-5X Two Way Radio, covering setup, operation, advanced features, troubleshooting, and technical specifications for optimal communication and safe use.</p>