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BAOFENG UV-20R

BAOFENG UV-20R Two-Way Radio Instruction Manual

Model: UV-20R

1. Introduction

This manual provides comprehensive instructions for the operation and maintenance of your BAOFENG UV-20R Two-Way Radio. Please read this manual thoroughly before using the device to ensure proper function and safety.
The BAOFENG UV-20R is a feature-packed handheld transceiver designed for reliable communication in various environments, including outdoor activities and professional settings. It features a large 1.77-inch LCD screen, a full keyboard, and a range of scanning and programming capabilities.

2. Package Contents

Verify that all items are present in your package:

- BAOFENG UV-20R Radio Unit
- Tactical Antenna (18.89 inches / 48 cm)
- Lithium-Ion Battery
- USB-C Charging Cable
- US Power Adapter
- Hand Strap
- User's Manual



Image 1: BAOFENG UV-20R Radio with all included accessories, including the radio unit, battery, antenna, USB-C cable, power adapter, strap, and user manual.

3. Product Overview

Familiarize yourself with the main components and controls of your UV-20R radio.



Image 2: Diagram illustrating the key components of the BAOFENG UV-20R radio, including the antenna, power/volume knob, color LCD, menu key, exit key, keypad, speaker, pilot lamp, MIC/SP port, lamp switch, and PTT (Push-To-Talk) key.

- **Antenna:** For transmitting and receiving radio signals.
- **Power/Volume Knob:** Turns the radio on/off and adjusts the volume.
- **Color LCD:** 1.77-inch display showing frequency, channel, and status information.
- **MENU Key:** Accesses the radio's menu system.
- **EXIT Key:** Exits menu options or cancels current operations.
- **Keypad:** For entering frequencies, channel numbers, and navigating menus.
- **Speaker:** Outputs received audio.
- **Pilot Lamp:** Indicates radio status (e.g., transmission, reception).
- **MIC/SP Port:** Connection for external microphone/speaker accessories.
- **Lamp Switch:** Activates the built-in LED flashlight.
- **PTT Key (Push-To-Talk):** Press and hold to transmit, release to receive.

4. Initial Setup

4.1. Battery Installation and Charging

Install the Lithium-Ion battery into the radio unit. Ensure it clicks securely into place.
The UV-20R offers convenient charging options:

- **USB-C Direct Charging:** Connect the provided USB-C cable to the radio's USB-C port and a compatible power source (e.g., power bank, PC, car charger, wall adapter).
- **Charging Stand:** Place the radio in the charging stand (if included) and connect the stand to power using the US adapter.



Image 3: Illustration of the BAOFENG UV-20R's Type-C charging capability, demonstrating charging from a car, PC, dedicated charger, or power bank.

4.2. Antenna Attachment

Carefully screw the tactical antenna onto the antenna connector at the top of the radio until it is finger-tight. Do not overtighten.

5. Operating Instructions

5.1. 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 the radio off.

5.2. Display and Menu Navigation

The 1.77-inch color LCD provides clear information. Use the**MENU** key to access the radio's settings and functions. Use the up/down arrow keys on the keypad to navigate through menu options. Press **MENU** again to confirm a selection, or **EXIT** to return to the previous screen or exit the menu.

5.3. Channel Mode and Frequency Mode

The UV-20R supports both Channel Mode (memory channels) and Frequency Mode (VFO). Switch between modes as needed for your operation.

5.4. Key Features and Functions

- **999 Memory Channels:** Store up to 999 named memory channels across 10 zones for quick access to frequently used frequencies.
- **Dual-Band Operation:** Transmit and receive on multiple frequency bands (1.25M, 144-148MHz, 420-450MHz, FM).
- **Wireless Frequency Copy:** Allows for easy duplication of frequencies from other radios.
- **NOAA Weather Radio:** Receive NOAA weather alerts for your area.
- **Scanner Function:**
    - VFO Scan: Scans a defined frequency range.
    - Channel Scan: Scans programmed memory channels.
    - CTC/DCS Scan: Detects CTCSS/DCS tones/codes.
    - Three Scan Recovery Methods: Configure how the scanner resumes after detecting a signal.
- **CTCSS/DCS Tones:** Utilize 50 CTCSS tones and 105 DCS codes for selective signaling.
- **DTMF Encoder:** For sending DTMF tones, with manual dial capability.
- **FM Radio Receiver:** Listen to broadcast FM radio.
- **Alarm Function:** Activates an audible alarm.
- **Power Selection:** Choose between high or low transmit power.
- **Display Illumination:** Programmable backlight settings via the keypad.
- **Function Beep:** Audible feedback for keypad presses.
- **Programmable Repeater Offset:** Configure offset for repeater use.
- **LED Flashlight:** Built-in flashlight for illumination.
- **PC Programmable:** Connect to a computer for advanced programming (requires compatible software and cable, sold separately).
- **Roger Beep:** An end-of-transmission tone.

- **Keypad Lock:** Prevents accidental key presses.



Image 4: Visual representation of the BAOFENG UV-20R's key features, including 999 channels, FM radio, CTCSS/DCS, SOS function, VOX function, scan function, large screen, squelch adjustment, long standby, Type-C charger, and power save mode.

6. Maintenance and Care

6.1. General Care

To ensure the longevity and optimal performance of your BAOFENG UV-20R radio:

- Keep the radio clean by wiping it with a soft, damp cloth. Avoid harsh chemicals or abrasive cleaners.
- Protect the radio from extreme temperatures, direct sunlight, and excessive moisture.
- Ensure the antenna is securely attached but not overtightened.
- When not in use for extended periods, store the radio and battery separately in a cool, dry place.

6.2. Water Resistance

The BAOFENG UV-20R features IP54 life waterproof protection, meaning it is resistant to splashes and light rain. It is not designed for submersion in water. If the radio gets wet, dry it thoroughly before use or charging.



Image 5: The BAOFENG UV-20R radio shown with water splashing, highlighting its IP54 life waterproof and splash protection feature.

7. Troubleshooting

If you encounter issues with your BAOFENG UV-20R, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on	Battery is depleted or not installed correctly.	Charge the battery. Ensure the battery is properly seated.

Problem	Possible Cause	Solution
Cannot transmit or receive	Incorrect frequency/channel, antenna not connected, low battery, or out of range.	Verify frequency/channel settings. Check antenna connection. Charge battery. Move closer to the other radio.
Poor audio quality	Low signal strength, incorrect squelch setting, or damaged speaker/microphone.	Adjust squelch level. Ensure good signal. Check for physical damage.
Keypad is unresponsive	Keypad lock is active.	Deactivate keypad lock (refer to operating instructions for specific key combination).

If the problem persists, please contact customer support for assistance.

8. Specifications

Detailed technical specifications for the BAOFENG UV-20R Two-Way Radio:

- **Model Number:** UV-20R
- **Product Dimensions:** 1.37"D x 2.24"W x 4.8"H (3.48 cm D x 5.69 cm W x 12.19 cm H)
- **Weight:** (Not specified in data, typically includes battery)
- **Number of Channels:** 999
- **Frequency Range:** 1.25M, 144-148MHz, 420-450MHz, FM
- **Talking Range Maximum:** 3.1 Miles (approximately 5 km)
- **Voltage:** 7.4 Volts (DC)
- **Battery Type:** Lithium Ion (1 required)
- **Display:** 1.77-inch TFT HD LCD Color Screen
- **Water Resistance Level:** IP54 (Water Repellent / Splash Waterproof)
- **Special Features:** 4 Band, NOAA Weather Radio, Type-C Charger, Wireless Frequency Copy, DTMF, FM Radio, LED Flashlight, PC Programmable.



Image 6: Diagram showing the physical dimensions of the BAOFENG UV-20R radio: 4.8 inches in height, 2.24 inches in width, and 1.37 inches in depth.



Image 7: Close-up view of the BAOFENG UV-20R's large 1.77-inch TFT HD LCD color screen, highlighting its quick menu operation mode.

9. Warranty and Support

9.1. Warranty Information

This BAOFENG UV-20R 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.

9.2. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Shiqun Electronics Co., Ltd. directly. You can find their contact information via their seller page on Amazon:
Shiqun Electronics Co., Ltd. Seller Page

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