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BAOFENG Baofeng UV-S9 Plus

BAOFENG UV-S9 Plus 8W High Power Two-Way Radio User Manual

Model: BAOFENG UV-S9 Plus

1. Introduction

This user manual provides comprehensive instructions for the safe and effective operation of your BAOFENG UV-S9 Plus 8W High Power Two-Way Radio. The UV-S9 Plus is an upgraded version of the popular UV-5R, featuring enhanced power output, increased battery capacity, and improved charging options. Please read this manual thoroughly before using the radio to ensure optimal performance and longevity.

Figure 1.1: BAOFENG UV-S9 Plus in various usage scenarios.

2. Safety Information

- Do not operate the radio in explosive atmospheres (e.g., flammable gases, dust particles, metallic powders).
- Do not charge the battery in wet environments.
- Use only BAOFENG approved batteries and chargers. Using unapproved accessories may cause damage or injury.
- Do not disassemble or modify the radio. Repairs should only be performed by qualified technicians.
- Keep the radio away from strong magnetic fields and direct sunlight.
- Avoid prolonged exposure to high volume levels when using the earpiece to prevent hearing damage.

3. Package Contents

Please check the package carefully to ensure all items are present and in good condition. If any items are missing or damaged, contact your retailer.

- 1 x BAOFENG UV-S9 Plus Portable Radio
- 1 x Standard Antenna
- 1 x 771 Antenna (15.1 Inch)
- 1 x 2200mAh Li-ion Battery
- 1 x US Charger (Desktop Charger)
- 1 x USB Charger Cable
- 1 x Belt Clip
- 1 x Slingshot (Hand Strap)
- 1 x User Manual
- 1 x Earpiece

Figure 3.1: Complete package contents of the BAOFENG UV-S9 Plus.

4. Product Overview

Familiarize yourself with the various parts and controls of your BAOFENG UV-S9 Plus radio.

Figure 4.1: Front and side view of the BAOFENG UV-S9 Plus with labeled components.

Key Components:

- **Antenna:** For transmitting and receiving signals.
- **Knob (ON/OFF, Volume):** Rotates to power the radio on/off and adjust volume.
- **Frequency/Channel Mode Switch:** Toggles between VFO (Frequency) mode and Channel mode.
- **LED Indicator:** Illuminates for transmission (red) and reception (green).
- **PTT (Push-to-Talk) Button:** Press and hold to transmit, release to receive.
- **Speaker/Mic:** Integrated speaker and microphone for audio.
- **Flashlight LED:** Built-in LED light for illumination.
- **FM/ALARM Button:** Activates FM radio or emergency alarm function.
- **Flashlight/Monitor Button:** Toggles the flashlight or activates the monitor function.
- **Band Key:** Switches between A/B bands or frequency ranges.
- **Keyboard:** Numeric keypad for frequency input, channel selection, and menu navigation.
- **LCD Screen:** Displays frequency, channel, battery status, and other operational information.

5. Setup

5.1 Battery Installation and Charging

The BAOFENG UV-S9 Plus comes with a 2200mAh Li-ion battery. Ensure the battery is fully charged

before first use.

1. To install the battery, align the battery pack with the grooves on the back of the radio and slide it upwards until it clicks into place.
2. To remove the battery, press the battery release latch (located at the bottom of the battery) and slide the battery downwards.
3. **Charging Methods:**
    - **Desktop Charger:** Place the radio (with battery installed) into the desktop charging cradle. Ensure the charging contacts align. The LED on the charger will indicate charging status (usually red for charging, green for fully charged).
    - **USB Charger:** Connect the provided USB charging cable to the charging port on the side of the battery (when installed on the radio) or directly to the battery pack. Connect the other end to a USB power source (e.g., computer, USB wall adapter, power bank).

Figure 5.1: 2200mAh Li-ion battery with USB charging capability.

Figure 5.2: Two available charging methods: Desktop Charger and USB Charger.

Figure 5.3: Direct USB charging connection.

5.2 Antenna Installation

Screw the desired antenna (standard or 771 antenna) clockwise into the connector on the top of the radio until it is finger-tight. Do not overtighten.

5.3 Earpiece Connection

Insert the earpiece plug into the audio jack on the side of the radio. Ensure it is fully inserted for proper audio output and microphone input.

6. Operating Instructions

6.1 Powering On/Off and Volume Adjustment

Rotate the top knob clockwise to power on the radio. Continue rotating clockwise to increase the volume. Rotate counter-clockwise to decrease volume and power off the radio.

6.2 Frequency/Channel Mode Switch (VFO/MR)

Press the **VFO/MR** button to switch between VFO (Frequency) mode and MR (Channel) mode. In VFO mode, you can manually input frequencies. In MR mode, you can select pre-programmed channels.

6.3 Transmitting and Receiving (PTT)

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

6.4 Menu Navigation

Press the **MENU** button to enter the radio's menu system. Use the **UP/DOWN** arrow keys to navigate through menu options. Press **MENU** again to select an option, and **EXIT** to return to the previous screen or exit the menu.

6.5 VOX Function (Voice Operated Transmit)

The VOX function allows for hands-free transmission. When activated, the radio will automatically transmit when it detects your voice. Adjust VOX sensitivity (0-9 grades) in the menu to prevent accidental transmissions or missed voice activation.

6.6 Scan Function

Press the **SCAN** button (keypad #9) to initiate channel or frequency scanning. The radio will scan through active channels or frequencies until a signal is detected. Press **SCAN** again to stop scanning.

6.7 Flashlight LED

Press the **Flashlight/Monitor** button briefly to turn the built-in LED flashlight on or off.

6.8 FM Radio

Press the **FM/ALARM** button briefly to activate the FM radio function. Use the keypad to input desired FM frequencies or scan for stations.

6.9 Emergency Alarm

Press and hold the **FM/ALARM** button to activate the emergency alarm. The radio will emit a loud siren sound. Press any key to stop the alarm.

6.10 Power Levels (TX Selectable)

The UV-S9 Plus supports selectable transmit power levels: High (8W), Mid (4W), and Low (1W). Adjusting the power level can conserve battery life and optimize communication range. This setting can typically be found in the radio's menu.

Figure 6.1: Display showing selectable transmit power levels.

6.11 Programming and Advanced Features

The radio supports advanced features such as DTMF, OFFSET, CTCSS/DCS tones, and Busy Channel Lockout (BCLO). For detailed programming and advanced feature configuration, refer to the specific menu options on your radio. Many users also utilize third-party software like CHIRP for easier programming via a computer.

7. Maintenance

7.1 Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the radio is dry before use or charging.

7.2 Battery Care

- Avoid fully discharging the battery frequently.
- Charge the battery in a cool, dry place.
- If storing the radio for an extended period, charge the battery to about 50% and remove it from the radio.

7.3 Storage

Store the radio in a cool, dry, and dust-free environment when not in use. Keep it away from direct sunlight and extreme temperatures.

8. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery. Reinstall the battery, ensuring it clicks into place.
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 or repeater.
Poor audio quality or static.	Weak signal, squelch level too low/high, or interference.	Adjust squelch level. Check antenna connection. Move to an area with better signal.
Battery drains quickly.	High transmit power, frequent transmission, or old battery.	Use lower transmit power when possible. Reduce transmission time. Consider replacing the battery if it's old.
Keyboard locked.	Keyboard lock function activated.	Press and hold the '#' key to unlock the keyboard.

9. Specifications

The following table outlines the technical specifications of the BAOFENG UV-S9 Plus radio:

Feature	Specification
Model	Baofeng UV-S9 Plus
Nominal Voltage	7.4 V DC
Battery Type	Li-ion battery
Battery Capacity	2200 mAh
Antenna Impedance	50 OHMS
Radio Bands Supported	UHF, VHF
Channels	128 groups of storage channels
Power Output	High/Medium/Low (8W Max)

Feature	Specification
Dimensions (L x W x H)	2.28"L x 1.26"W x 4.33"H
Item Weight	1.12 pounds
Special Features	Dual display/standby, VOX, Scan, TOT, BCLO, DTMF, Compression-extension voice, Integrated LED torch, Clone function, Energy saving, USB Charging

Figure 9.1: Comparison between UV-5R8W and UV-S9 Plus models.

10. Warranty and Support

For warranty information and technical support, please refer to the warranty card included with your product or visit the official BAOFENG website. Keep your purchase receipt as proof of purchase for warranty claims.
For further assistance, you may also contact your authorized BAOFENG dealer or the customer service department.

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