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BAOFENG UV-16R

BAOFENG UV-16R Dual Band Two-Way Radio User Manual

Model: UV-16R | Brand: BAOFENG

Introduction

This manual provides comprehensive instructions for the safe and efficient operation of your BAOFENG UV-16R dual band two-way radio. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

Package Contents

Verify that all items listed below are included in your package:

- Portable Radio (BAOFENG UV-16R)
- Li-ion Battery
- Original Antenna
- Charger Base
- Type-C Charger Cable
- Programming Cable
- Belt Clip
- Sling
- User’s Manual



Image: BAOFENG UV-16R radio with its complete set of accessories, including the antenna, battery, charger, cables, belt clip, and sling.

Setup

1. Battery Installation

1. Align the Li-ion battery with the battery compartment on the back of the radio.
2. Slide the battery into place until it clicks securely.
3. Use the provided fixing screw to further secure the battery, if applicable, to prevent accidental detachment.



Image: Detail showing the battery attachment area and the fixing screw mechanism on the BAOFENG UV-16R, ensuring secure battery placement.

2. Antenna Attachment

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



Image: The BAOFENG UV-16R radio featuring its high gain antenna, designed for extended communication range and stable signal.

3. Charging the Battery

The UV-16R offers two charging methods:

- **USB-C Direct Charging:** Connect the Type-C charger cable directly to the USB-C port on the side of the radio. This allows charging from power banks, PCs, car chargers, or any standard USB power source.
- **Charger Base:** Place the radio (with battery installed) into the provided charger base. Connect the charger base to a power outlet using the appropriate adapter.

Ensure the radio is powered off during charging for optimal battery life. The charging indicator light will typically show red when charging and green when fully charged.



Image: The BAOFENG UV-16R radio connected to a power source via its convenient USB-C charging port, illustrating its versatile charging capabilities.

Operating Instructions

1. Power On/Off and Volume Control

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

2. Channel Selection

Use the up/down arrow keys or the numeric keypad to select desired channels. The radio supports 128 channels.

3. Transmitting and Receiving

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

4. Dual Watch and Sync Function

The Dual Watch function allows monitoring two different frequencies or channels simultaneously. The Sync function displays both the channel name and frequency information for a monitored channel, enhancing user convenience.

5. Repeater Capable

The UV-16R supports customizable repeater channels, which can extend communication range and improve signal strength in challenging environments.

6. Additional Functions

- **LED Torch:** The radio is equipped with an LED high-power torch, supporting both constant light and flashlight modes for night vision.
- **FM Radio:** A built-in FM radio function is available for entertainment.



Image: The BAOFENG UV-16R radio highlighting its integrated LED torch and FM radio capabilities, useful for various outdoor activities.

Maintenance

1. Cleaning

Wipe the radio with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the USB-C port cover is closed when not in use to maintain water resistance.

2. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the radio and battery in a cool, dry place when not in use for extended periods.

3. Water Resistance

The UV-16R features an IP45 waterproof rating, providing protection against dust and splashes. While it can withstand accidental exposure to rain or light water, it is not designed for submersion. Ensure all port covers are securely closed to maintain water resistance.



Image: The BAOFENG UV-16R radio partially submerged in water, illustrating its waterproof protective structure designed to resist dust and rain.

4. Durability

The radio's housing is constructed from high-hardness ABS+PC material, offering resistance to falls, heat, and wear.



Image: The BAOFENG UV-16R radio depicted in a scenario suggesting its fall resistance, highlighting its durable ABS+PC material construction.

Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Battery is not charged or improperly installed.	Ensure battery is fully charged and correctly seated. Check battery contacts.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not attached, or PTT button malfunction.	Verify channel settings. Ensure antenna is securely attached. Test PTT button functionality.
Poor audio quality.	Low signal strength, microphone obstruction, or volume setting.	Adjust volume. Move to an area with better signal. Ensure microphone is clear.

Problem	Possible Cause	Solution
Short battery life.	Battery not fully charged, aging battery, or frequent high-power transmissions.	Ensure full charge. Consider replacing old batteries. Reduce transmission power if possible.

Specifications

Feature	Detail
Model Number	UV-16R
Output Power	10W
Battery Capacity	1800mAh Li-ion battery
Antenna Type	SMA-Male
Number of Channels	128
Frequency Range	144-148 MHz, 420-450 MHz
Talking Range (Max)	Up to 6.1 miles (environment dependent)
Water Resistance Level	IP45 (Waterproof/Water-Resistant)
Charging	USB-C / Type-C, Charger Base
Product Dimensions	2.44 x 1.46 x 4.72 inches
Item Weight	1.22 pounds
Material	Sturdy ABS+PC Plastic
Voltage	7.4 Volts (DC)

Warranty and Support

Warranty Information

A 1-year warranty is provided for the BAOFENG UV-16R radio. This warranty is exclusively offered through "Shiqun Electronics Co., Ltd." Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact the seller, Shiqun Electronics Co., Ltd., directly through the platform where the product was purchased. Refer to your purchase documentation for specific contact details.

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