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## BAOFENG UV-17R

# BAOFENG UV-17R Dual-Band Ham Radio User Manual

Model: UV-17R | Brand: BAOFENG

## 1. PRODUCT OVERVIEW

The BAOFENG UV-17R is a versatile dual-band ham radio designed for reliable communication. It features 999 channels, a robust 1800mAh battery, USB-C charging, and an IP54 water-resistant rating. This manual provides essential information for the safe and effective use of your radio.



**Figure 1: BAOFENG UV-17R Radio Components.** This image displays the front view of the radio with key components labeled, including the antenna, power/volume knob, LED indicator, flashlight button, PTT (Push-To-Talk) button, menu button, FM button, keypad, speaker, LED screen, 2-pin K jack, mic, exit button, and flashlight.

## Key Features:

- **Dual-Band Operation:** Supports UHF (420-450MHz) and VHF (144-148MHz) frequencies, plus FM radio.
- **999 Channels:** Extensive channel capacity for various communication needs.
- **USB-C Charging:** Convenient charging via Type-C cable from multiple power sources.
- **Frequency Copy Function:** Directly copy frequencies from one radio to another without a PC.
- **NOAA Weather Alert:** Access 10 U.S.A. NOAA weather forecast channels for alerts.
- **IP54 Water Resistance:** Provides protection against dust and splashing water.
- **1800mAh Battery:** Extended battery life for long standby times.
- **Built-in Flashlight:** Strong light flashlight for illumination.

## 2. SETUP

## 2.1 Package Contents

Before beginning, ensure all items are present in the package:

- BAOFENG UV-17R Portable Radio
- 1800mAh Battery
- High Gain Antenna (e.g., 771 Antenna)
- Charger Base
- Belt Clip
- Hand Strap
- User's Manual (this document)
- Type-C Cable

## 2.2 Battery Installation

1. Align the 1800mAh battery with the battery compartment on the back of the radio.
2. Gently push the battery into place until it clicks securely.
3. Ensure the battery is firmly attached. The design includes an added fixing screw for enhanced firmness.

# Dual Band

Anti-interference

Noise Cancelling

Strong Confidentiality



UHF: 420-450MHz  
VHF: 144-148MHz  
FM



**Figure 2: Battery Installation.** This image illustrates the process of inserting the 1800mAh battery into the radio's compartment, highlighting the secure fit and the fixing screw mechanism.

### 2.3 Antenna Attachment

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

### 2.4 Initial Charging

Before first use, fully charge the radio's battery. The UV-17R offers two charging methods:

- **USB-C Cable:** Connect the Type-C cable to the radio's USB-C port and to a compatible USB power source (e.g., car charger, PC USB port, power bank).
- **Charger Base:** Place the radio in the provided charger base. Ensure the charging contacts align.

A full charge typically takes approximately 3 hours. The LED indicator will show charging status (e.g., red for charging, green for fully charged).



**Figure 3: USB-C Charging.** This image demonstrates the radio connected to a USB-C cable for charging, indicating compatibility with various USB power sources and approximate battery life, standby time, and charging duration.

### 3. OPERATING INSTRUCTIONS

#### 3.1 Power On/Off and Volume Control

1. To power on, rotate the Power/Volume knob clockwise until you hear a click.
2. Continue rotating the knob clockwise to increase volume, and counter-clockwise to decrease.
3. To power off, rotate the knob counter-clockwise until you hear a click.

#### 3.2 Channel Selection and Frequency Mode

The UV-17R supports both channel mode and frequency mode. Use the keypad to enter frequencies directly or navigate through programmed channels.

- **Channel Mode:** Allows selection of pre-programmed channels (up to 999). Use the up/down arrow keys or the keypad to select a channel number.
- **Frequency Mode (VFO):** Allows direct input of frequencies within the radio's operating range (UHF: 420-450MHz, VHF: 144-148MHz).



**Figure 4:** Dual Band Operation. This image highlights the radio's capability to operate on both UHF (420-450MHz) and VHF (144-148MHz) bands, along with FM radio, emphasizing anti-interference and noise cancellation features.

### 3.3 Transmitting and Receiving

1. To transmit, press and hold the PTT (Push-To-Talk) button on the side of the radio. Speak clearly into the microphone.
2. Release the PTT button to stop transmitting and return to receive mode.
3. Ensure you are on an appropriate frequency or channel before transmitting.

### 3.4 Frequency Copy Function

The UV-17R features a wireless frequency copy function, allowing direct programming from one radio to another without a computer or programming cable.

1. Ensure both radios are powered on and in close proximity.
2. Follow the specific menu instructions on the UV-17R to initiate the frequency copy process. Refer to the on-screen prompts for guidance.

# USB-C Charging

Compatible with

-  Car Charger
-  PC USB
-  Charger Bank

<b>Battery Life</b>	<b>Stand-by</b>	<b>Charging time</b>
<b>5 Days</b>	<b>10 Days</b>	<b>3hrs</b>
Approx	Approx	Approx

**Figure 5:** Direct Frequency Copy. This image illustrates two radios wirelessly copying frequencies from each other, eliminating the need for a programming cable.

### 3.5 NOAA Weather Alert

The radio can scan and provide alerts from 10 U.S.A. NOAA weather forecast channels. This feature is useful for receiving weather warnings, especially for outdoor activities.

1. Access the NOAA function through the radio's menu.
2. Select the desired NOAA channel or enable automatic scanning for alerts.

### 3.6 Flashlight Function

The UV-17R includes a strong light flashlight for illumination in low-light conditions.

1. Press the dedicated Flashlight button (refer to Figure 1) to turn the flashlight on or off.



**Figure 6:** Strong Light Flashlight. This image depicts the radio's powerful flashlight illuminating an outdoor scene at night, highlighting its utility for night use and large area irradiation.

### 3.7 Other Functions (VOX, CTCSS/DCS)

- **VOX (Voice Operated Exchange):** Allows hands-free transmission when voice is detected. Adjust VOX sensitivity in the menu.
- **CTCSS/DCS (Continuous Tone-Coded Squelch System / Digital Coded Squelch):** Used to filter out unwanted transmissions and allow communication only with radios using the same tone/code. Configure

these settings via the menu.

## 4. MAINTENANCE

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### 4.1 Battery Care

- To maximize battery life, avoid fully discharging the battery frequently.
- Charge the battery in a cool, dry environment.
- If storing the radio for an extended period, charge the battery to approximately 50% and remove it from the radio.

### 4.2 Cleaning

- Wipe the radio's exterior with a soft, damp cloth.
- Do not use harsh chemicals or abrasive cleaners.
- Ensure the USB-C port and other connectors are free of dust and debris.

### 4.3 Water Resistance

The UV-17R has an IP54 rating, meaning it is protected against dust ingress and splashing water from any direction. It is not designed for submersion. Avoid exposing the radio to heavy rain or direct water jets.

## 5. TROUBLESHOOTING

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If you encounter issues with your BAOFENG UV-17R, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Radio does not power on	Battery is low or not installed correctly.	Charge the battery fully. Ensure the battery is securely installed.
Cannot transmit or receive	Incorrect frequency/channel. Antenna not attached. VOX/CTCSS/DCS settings.	Verify frequency/channel. Ensure antenna is securely attached. Check VOX, CTCSS, and DCS settings.
Poor audio quality	Low battery. Obstructions. Incorrect volume.	Charge battery. Move to an open area. Adjust volume.
Charging not working	Faulty cable/charger. Improper connection.	Try a different USB-C cable or charger base. Ensure connections are secure.

## 6. SPECIFICATIONS

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Feature	Specification
Model Number	UV-17R
Frequency Range	VHF: 144-148MHz, UHF: 420-450MHz, FM
Number of Channels	999

Feature	Specification
Battery Capacity	1800mAh Lithium Ion
Input Voltage	DC 7.4V
Water Resistance Level	IP54 (Water Repellent)
Operating Temperature	-10°C to 60°C
Antenna Impedance	50 Ω
Maximum Talking Range	3 Miles (approximate, varies by terrain)
Item Weight	Approx. 2.93 pounds (package weight) / 46.91 ounces (item weight)
Package Dimensions	8.26 x 8.07 x 4.64 inches

## 7. WARRANTY AND SUPPORT

### 7.1 Warranty Information

This product comes with a **1-year warranty** provided exclusively through "Shiqun Electronics Co., Ltd." The warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

### 7.2 Customer Support

For technical assistance, warranty claims, or further inquiries, please contact the seller, Shiqun Electronics Co., Ltd., directly through your purchase platform or their official contact channels. Ensure you have your product model (UV-17R) and purchase details ready when contacting support.