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## BAOFENG DR-1801UV

# BAOFENG DR-1801UV DMR Two-Way Radio User Manual

Model: DR-1801UV

## 1. INTRODUCTION

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The BAOFENG DR-1801UV is a dual-band digital and analog two-way radio designed for reliable communication. It supports both DMR (Digital Mobile Radio) and traditional analog modes, offering flexibility for various communication environments. Key features include AES256 encryption for secure transmissions, 1024 programmable channels, dual standby, and dual display capabilities.

This manual provides essential information for the proper setup, operation, and maintenance of your DR-1801UV radio.



Figure 1: BAOFENG DR-1801UV with highlighted features.

## 2. PACKAGE CONTENTS

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Verify that all items are present in your package:

- BAOFENG DR-1801UV Portable Radio
- 2200mAh Lithium-Ion Battery
- High Gain Antenna (including 771 Antenna)
- Desktop Charger
- Belt Clip
- Hand Strap
- User's Manual (this document)
- Microphone
- USB Cable

## 3. SETUP

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### 3.1 Battery Installation

1. Align the battery pack with the grooves on the back of the radio.
2. Slide the battery upwards until it clicks into place.
3. To remove, push the battery release latch (usually at the bottom of the battery) and slide the battery downwards.



Figure 2: Battery installation process.

### 3.2 Antenna Attachment

Screw the antenna clockwise into the connector on the top of the radio until it is finger-tight. Do not overtighten.

### 3.3 Charging the Battery

Insert the radio with the battery attached into the charging cradle. Ensure the charging contacts align. The indicator light on the charger will typically show red during charging and green when fully charged. A full charge takes approximately 4 hours.

## 4. OPERATING INSTRUCTIONS

### 4.1 Power On/Off and Volume Control

Rotate the **Power/Volume knob** (located on top of the radio) clockwise to power on the radio and increase volume. Rotate counter-clockwise to decrease volume and power off.

## 4.2 Channel and Mode Selection

The DR-1801UV supports 1024 channels and operates in both digital (DMR) and analog modes. Use the **MENU** button and navigation keys to access channel lists and switch between modes. The LCD screen will indicate the current operating mode (A for Analog, D for Digital).



Figure 3: LCD screen displaying Analog and Digital modes.

## 4.3 Transmitting and Receiving

- To transmit, press and hold the **PTT (Push-To-Talk) button** on the side of the radio. Speak clearly into the microphone.
- Release the PTT button to receive.
- Ensure you are on the correct channel and mode for communication.

## 4.4 Key Features

- **AES256 Encryption:** Provides secure communication. This feature ensures that transmissions are protected from unauthorized access.

# LONG TIME STANDBY

2200mAh  
Big Battery Capacity

 Standby Time  
Up to **30** hrs

 Working Time  
Up to **17** hrs

 Charge Time  
Only **4** hrs

Figure 4: AES256 Encryption for secure conversations.

- **DMO True 2 Time Slot:** Direct Mode Operation (DMO) with two time slots allows two groups of calls on a single frequency, enhancing communication efficiency.
- **SMS Function:** Send and receive text messages between compatible radios.



Figure 5: SMS Function in use.

- **Emergency Alarm:** Activates an alarm signal in emergency situations.
- **VOX:** Voice-operated transmission allows hands-free operation.
- **High/Low Power:** Adjust transmit power to conserve battery or extend range.
- **TOT (Time-Out Timer):** Prevents accidental long transmissions.
- **Wired Copy:** Allows cloning radio settings from one unit to another.

## 5. MAINTENANCE

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### 5.1 Battery Care

- Charge the battery fully before first use.
- Avoid overcharging or completely draining the battery to prolong its lifespan.
- Store the battery in a cool, dry place when not in use for extended periods.

### 5.2 Cleaning

Wipe the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the radio is powered off and the battery is removed before cleaning.

### 5.3 General Handling

- The DR-1801UV is **not water resistant**. Avoid exposure to water or high humidity.

- Do not expose the radio to extreme temperatures or direct sunlight for prolonged periods.
- Handle the antenna with care to prevent damage.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery or re-install it securely.
Cannot transmit or receive.	Incorrect channel/mode, out of range, or antenna issue.	Verify channel and mode. Check antenna connection. Move closer to other radios.
Poor audio quality.	Low signal strength, interference, or incorrect volume.	Adjust volume. Check antenna. Move to an area with better signal.
Programming software issues (e.g., contact import).	Compatibility limitations with third-party software or specific features.	Use the official BAOFENG programming software. Refer to the software manual for detailed instructions on contact management.

## 7. SPECIFICATIONS

<b>Model Number</b>	DR-1801UV / TD-H6
<b>Channels</b>	1024
<b>Frequency Range</b>	144-148MHz, 420-450MHz
<b>Power Output</b>	5W
<b>Battery Capacity</b>	2200mAh Lithium-Ion
<b>Working Time</b>	Up to 17 hours
<b>Standby Time</b>	Up to 30 hours
<b>Charge Time</b>	Approximately 4 hours
<b>Dimensions (H x W x D)</b>	5.2 x 2.4 x 1.4 inches (133 x 62 x 36 mm)
<b>Weight</b>	20.25 ounces (574g)
<b>Talking Range (Max)</b>	Up to 6.2 miles (Open Area)
<b>Water Resistance</b>	Not Water Resistant
<b>Encryption</b>	AES256



Figure 6: Physical dimensions and weight of the radio.

# CLEAR LCD SCREEN

## Two Modes

T H~  
144.97500 1  
429.12500 1

A Analog

T HLL  
145.97500 1  
425.12500 1

D Digital



Figure 7: Communication range in various environments.

## 8. WARRANTY INFORMATION

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A 1-year warranty is provided for the BAOFENG DR-1801UV radio. This warranty is exclusively offered through "Shiqun Electronics Co., Ltd." Please retain your proof of purchase for warranty claims.

## 9. SUPPORT

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For further assistance, technical support, or inquiries regarding your BAOFENG DR-1801UV radio, please refer to the contact information provided by your retailer or the official BAOFENG support channels. A programming cable is available for advanced PC programming and customization of radio settings.