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## BAOFENG DR-1801/TD-H6

# BAOFENG DR-1801 DMR Radio User Manual

Digital/Analog Two-Way Radio

## 1. INTRODUCTION

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Thank you for choosing the BAOFENG DR-1801 DMR Radio. This advanced two-way radio offers both digital and analog communication capabilities, ensuring versatile and reliable performance. With features like AES256 encryption, dual-band operation, and a robust 2200mAh battery, the DR-1801 is designed for clear and secure communication in various environments. This manual provides essential information for the proper setup, operation, and maintenance of your device.

## 2. SAFETY INFORMATION

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- **Battery Safety:** Use only the specified 2200mAh Lithium-Ion battery. Do not disassemble, puncture, or expose the battery to extreme temperatures or fire.
- **Charging:** Use only the provided charger. Ensure the charger is connected to a stable power source.
- **Antenna:** Do not touch the antenna during transmission. Avoid using the radio with a damaged antenna.
- **Interference:** Turn off the radio in areas where radio devices are prohibited, such as hospitals, aircraft, or near blasting sites.
- **Water Exposure:** This device is not water resistant. Avoid exposure to rain, moisture, or submersion in water.
- **Maintenance:** Refer all servicing to qualified personnel. Do not attempt to repair the radio yourself.

## 3. PACKAGE CONTENTS

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

- BAOFENG DR-1801 Portable Radio
- 2200mAh Battery
- High Gain Antenna
- Charger
- Belt Clip
- Hand Strap
- User's Manual (this document)

- 771 Antenna
- Speaker Microphone



Figure 3.1: Contents of the BAOFENG DR-1801 package, including the radio, battery, antennas, charger, belt clip, hand strap, and speaker microphone.

## 4. PRODUCT OVERVIEW

The BAOFENG DR-1801 is a compact and durable two-way radio designed for ease of use and reliable communication. It features a clear LCD screen, a full keypad, and dedicated function buttons.

### 4.1 Key Features

- **Digital and Analog Compatible:** Seamlessly switch between DMR digital and traditional analog modes.
- **AES256 Encryption:** Enhanced security for private communications.

- **DMO True 2 Time Slot:** Efficient use of frequency resources by allowing two groups of calls on a single frequency.
- **Long Endurance Battery:** 2200mAh battery provides up to 17 hours of working time and 30 hours of standby time.
- **Multifunctionality:** Includes Channel Scan, Manual Programming, DTMF, VFO, SMS Function, Emergency Alarm, Digital Remote Monitor Mode, CTCSS, and DCS.
- **Dual Band, Dual Standby, Dual Display:** Monitor two frequencies simultaneously.



Figure 4.1: Visual representation of the DR-1801's integrated features, including VOX, SMS, power control, and encryption.

## 5. SETUP

### 5.1 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, press the battery release latch (if present) and slide the battery downwards.

## 5.2 Antenna Attachment

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

## 5.3 Charging the Battery

Before first use, fully charge the battery. A full charge takes approximately 4 hours.

1. Insert the radio with the battery attached into the charging cradle.
2. Connect the AC adapter to the charging cradle and plug it into a power outlet.
3. The charging indicator light will show the charging status (typically red for charging, green for fully charged).



# 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 5.1: The 2200mAh battery provides extended operational and standby times, with a quick 4-hour charge time.

## 6. OPERATING INSTRUCTIONS

## 6.1 Powering On/Off and Volume Control

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

## 6.2 Mode Selection (Digital/Analog)

The DR-1801 supports both digital (DMR) and analog modes. The current mode is displayed on the LCD screen. Use the menu or a pre-programmed shortcut key to switch between modes as needed.



Figure 6.1: The clear LCD screen shows current operating mode (Analog or Digital) and frequency information.

## 6.3 Channel Selection and Frequency Input

Use the up/down arrow keys or the numeric keypad to select channels or directly input frequencies in VFO mode. The radio supports 1024 channels.

## 6.4 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.

## 6.5 Advanced Features

- **SMS Function:** Send and receive text messages between compatible DMR radios. Access this feature via the menu.



Figure 6.2: The SMS function allows for text-based communication between radios.

- **AES256 Encryption:** Activate AES256 encryption through the radio's menu to secure your transmissions. Both transmitting and receiving radios must have the same encryption settings.



Figure 6.3: Upgraded AES256 Encryption ensures secure and confidential communications.

- **DMO True 2 Time Slot:** This feature allows two simultaneous conversations on a single frequency in direct mode, doubling communication efficiency.
- **Channel Scan:** Enable scan mode to monitor active channels.
- **Emergency Alarm:** Activate the emergency alarm function for distress signaling.
- **PC Programming:** For advanced configuration and channel management, the DR-1801 is compatible with a universal K-plug programming cable and PC software (sold separately).

## 7. MAINTENANCE

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### 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.

### 7.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. If storing the radio for an extended period, charge the battery to approximately 50% and remove it from the radio.

### 7.3 Storage

Store the radio in a cool, dry place away from direct sunlight and extreme temperatures.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Radio does not power on.	Battery is not installed correctly or is discharged.	Ensure battery is properly seated. Charge the battery fully.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not attached, or out of range.	Verify frequency/channel settings. Ensure antenna is securely attached. Move closer to the other radio or repeater.
Poor audio quality.	Low battery, weak signal, or interference.	Charge battery. Move to an area with better signal. Check for sources of interference.
SMS function not working.	Not in digital mode or incompatible settings.	Ensure both radios are in digital mode and have compatible SMS settings.

## 9. SPECIFICATIONS

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- **Model:** DR-1801/TD-H6
- **Channels:** 1024
- **Power:** 5W
- **Battery Capacity:** 2200mAh Lithium Ion (included)
- **Time Slot:** Dual (DMO True 2 Time Slot)
- **Frequency Range:** 144-148MHz, 420-450MHz
- **Working Time:** Up to 17 hours
- **Standby Time:** Up to 30 hours
- **Charge Time:** Approximately 4 hours
- **Item Weight:** 1.59 pounds
- **Product Dimensions:** 1.4 x 2.4 x 5.2 inches
- **Water Resistance Level:** Not Water Resistant
- **Special Features:** AES256 Encryption, Digital and Analog Compatible, Long Range, Tier I & Tier II compliant DMR radio.

# LONG COMMUNICATION RANGE

Open Area:  
Up to **6.2** Miles

Community Area:  
Up to **4** Miles

Urban Area:  
Up to **1.8** Miles



Figure 9.1: Typical communication ranges for the DR-1801 in various environments.



Figure 9.2: Physical dimensions and weight of the BAOFENG DR-1801 radio.

## 10. WARRANTY AND SUPPORT

The BAOFENG DR-1801 radio comes with a **1-year warranty** provided exclusively through "Shiqun Electronics Co., Ltd." For warranty claims or technical support, please contact the seller directly or refer to the contact information provided with your purchase documentation.

For additional resources and product information, you may visit the official BAOFENG store on Amazon [BAOFENG Store](#).

