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› QODOSEN DX-286 Portable Shortwave Radio User Manual

## QODOSEN DX-286

# QODOSEN DX-286 Portable Shortwave Radio User Manual

Model: DX-286 | Brand: QODOSEN

## 1. INTRODUCTION

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Thank you for choosing the QODOSEN DX-286 Portable Shortwave Radio. This ultra-high sensitivity, full-band radio is designed to provide exceptional reception across AM, FM, LW, and SW bands, powered by the advanced TEF6686 chip. Its compact and lightweight design makes it ideal for use in various settings, including kitchens, desks, bedrooms, offices, and outdoors. This manual provides detailed instructions to help you set up, operate, and maintain your DX-286 radio for optimal performance.



Figure 1.1: QODOSEN DX-286 Portable Shortwave Radio

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- **Portable Design:** Compact dimensions (5.27"W x 2.99"H x 1.18"D) and lightweight (7.1 ounces) for easy portability.
- **Full-Band Reception:** Supports FM stereo, LW, MW, and SW bands.
- **High Sensitivity:** Equipped with DSP TEF6686 radio chip for enhanced receiving sensitivity and excellent selectivity.
- **Memory Storage:** Up to 1000 memory storage stations with Band ATS (Auto Tuning Storage).
- **Convenience Functions:** Includes sleep timer, alarm clock, and Universal time display.
- **External Antenna Interface:** Allows connection of an external antenna for improved signal reception.
- **Clear Display:** Backlit LCD screen for easy viewing, especially at night.
- **Rechargeable Battery:** Powered by a long-lasting 18650 rechargeable battery.
- **Audio Quality:** High-quality materials and components ensure good audio performance for both vocals and music.

### 2.2 Components and Controls



Figure 2.1: Front Panel Features and Functions

The DX-286 radio features a user-friendly interface with clearly labeled buttons and a multi-function knob. Key components include:

- **Telescopic Antenna:** Extends for optimal FM, LW, MW, and SW reception.
- **LCD Display:** Shows frequency, time, alarm status, and other operational information.
- **Keypad:** Numeric buttons for direct frequency input and function selection.
- **Multi-function Knob:** Used for tuning, step setting, squelch adjustment, and fast adjustment.
- **Volume Control:** Slider on the side for adjusting audio output.
- **Headphone Socket:** For private listening.
- **USB Charging Port:** For charging the internal 18650 battery.
- **External Antenna Interface (ANT.):** 3.5mm jack for connecting an external antenna.
- **System Reset Button:** Small pinhole button for resetting the device.
- **Foldable Kickstand:** Located on the back for convenient upright placement.
- **Battery Compartment:** Houses the 18650 rechargeable battery.



Figure 2.2: Internal Components and Design

# DC Power Supply



## Rechargeable Detachable Battery



## Button 18650 rechargeable battery

Figure 2.3: Rechargeable Detachable Battery

Your browser does not support the video tag.

Video 2.1: DX-286 Radio Commodity Overview and Operation Mode. This video provides a visual guide to the radio's features and basic operation.

## 3. SETUP

### 3.1 Battery Installation

1. Locate the battery compartment cover on the back of the radio.
2. Slide the cover open.
3. Insert the provided 18650 rechargeable battery, ensuring correct polarity (+ and - ends match the markings inside the compartment).
4. Close the battery compartment cover securely.



Figure 3.1: Antenna Switching for Optimal Reception

### 3.2 Initial Charging

Before first use, it is recommended to fully charge the battery. Connect the supplied USB charging cable to the radio's USB port and a compatible USB power adapter (not included). The charging indicator on the display will show the charging status.

### 3.3 Antenna Extension

For optimal reception, especially for FM and SW bands, fully extend the telescopic antenna. For LW and MW bands, the internal ferrite rod antenna is primarily used, but extending the telescopic antenna can still improve reception in some cases.

# FREQUENCY RANGE/TUNING STEP OF DX-286

- FM:** 64-108MHz (suitable for Russia/Eastern Europe) 76-95MHz (suitable for Japan),  
76-108MHz (suitable for School) 87-108MHz (suitable for Europe, Oceania, Africa, Asia)  
87.5-108MHz (suitable for China, Americas) (Tuning step is 250KHz/200KHz/100 KHz/50KHz/30KHz/10KHz)
- SW:** 1711-27000KHz (Tuning step is 1KHz/5KHz)
- MW:** 522-1620KHz (Tuning step is 1KHz/9KHz)  
520-1710KHz (Tuning step is 1KHz/10KHz)
- LW:** 144-519KHz (Tuning step is 1KHz/3KHz)



Figure 3.2: Frequency Ranges and Tuning Steps

## 4. OPERATING INSTRUCTIONS

### 4.1 Power On/Off

Press the **POWER** button to turn the radio on or off.

### 4.2 Band Selection

Press the **FM**, **AM**, or **SW** buttons to switch between frequency bands. The LW band is typically accessed within the AM band range or through specific settings.

### 4.3 Tuning Methods

The DX-286 offers several tuning methods:

- **Manual Tuning:** Rotate the multi-function knob on the side to manually adjust the frequency.
- **Direct Frequency Input:** Use the numeric keypad to enter the desired frequency directly, then press **FM** or **AM** to confirm.
- **Automatic Scan (ATS):** Press and hold the **AUTO** button to automatically scan and store available

stations.

- **Seek Tuning:** Press the **SEEK** button to automatically scan for the next strong station.

#### 4.4 Memory Storage and Recall

To store a station, tune to the desired frequency, then press and hold the **SET** button until the memory location flashes. Use the numeric keypad to select a memory slot, then press **SET** again to confirm. To recall a stored station, press the **PAGE** button to navigate through memory pages, or directly enter the memory slot number.

#### 4.5 Time and Alarm Settings

Press the **TIME** button to view the current time. To set the time or alarm, refer to the detailed instructions in the included user's manual for specific button sequences.

#### 4.6 Using External Antenna

Connect a compatible external antenna to the **ANT.** jack on the side of the radio. This can significantly improve reception, especially for distant or weak signals. **Warning: Do not use the outdoor external antenna during thunderstorms to protect against lightning strikes!**



Figure 4.1: External Antenna Interface

## 4.7 Audio Settings

- **Volume:** Adjust using the slider on the side.
- **Tone (Music/Voice):** Press the **M/TONE** button to switch between music and voice tone modes for optimized audio output.
- **Squelch:** Adjust the squelch level using the multi-function knob in squelch setting mode to reduce background noise.
- **Mute:** Press the **MUTE** button for instant audio muting.



Figure 4.2: Music/Voice Tone Function

## 5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your DX-286 radio.

- **Cleaning:** Use a soft, dry cloth to clean the radio's exterior. Do not use abrasive cleaners or solvents.
- **Battery Care:** If the radio will not be used for an extended period, remove the 18650 battery to prevent leakage. Store the battery in a cool, dry place.
- **Storage:** Store the radio in a dry environment, away from extreme temperatures, dust, and direct sunlight.
- **Antenna Care:** Handle the telescopic antenna gently to avoid bending or breaking. Retract it when not in use or when transporting the radio.

## 6. TROUBLESHOOTING

If you encounter issues with your DX-286 radio, try the following troubleshooting steps:

Problem	Possible Cause	Solution
No power/Radio does not turn on	Battery is depleted or incorrectly installed.	Charge the battery or ensure it is installed with correct polarity.
Poor reception/Static	Antenna not extended, weak signal, interference.	Fully extend the telescopic antenna. Try repositioning the radio. Connect an external antenna if available.

Problem	Possible Cause	Solution
Display is blank or frozen	System error.	Locate the small 'RESET' pinhole on the radio and gently press it with a thin object (e.g., paperclip) to reset the system.
Buttons are unresponsive	Keypad lock is activated.	Check if the keypad lock function is enabled (refer to the user manual for specific lock/unlock instructions).

## 7. SPECIFICATIONS

- **Product Dimensions:** 5.28 x 1.18 x 2.99 inches (5.27"L x 1.18"W x 2.99"H)
- **Item Weight:** 7.1 ounces
- **Model Number:** DX-286
- **Brand:** QODOSEN
- **Color:** Black
- **Special Feature:** Portable
- **Connectivity Technology:** USB (for charging)
- **Tuner Technology:** AM/FM (DSP TEF6686 chip)
- **Power Source:** Battery Powered (1 x 18650 rechargeable battery included)
- **Radio Bands Supported:** 4-Band (FM/AM/LW/SW)
- **FM Frequency Range:** 64-108MHz (various regional settings available)
- **AM Frequency Range:** 520-1710kHz
- **SW Frequency Range:** 1711-27000 kHz
- **LW Frequency Range:** 144-519kHz
- **Included Components:** 1 x DX-286 radio, 2 x Rechargeable Batteries, 1 x USB Charging Cable, 1 x Dedicated Fleece Bag, 1 x Carrying Case, 1 x User's Manual.

## 8. WARRANTY AND SUPPORT

The QODOSEN DX-286 radio comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions, including warranty period and coverage details. For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact QODOSEN customer service through the contact information provided on the product packaging or the official QODOSEN website. Keep your purchase receipt as proof of purchase for warranty purposes.