

[Manuals.plus](#) /

› [QODOSEN](#) /

› QODOSEN DX-286 Portable Radio User Manual

QODOSEN DX-286

QODOSEN DX-286 Portable Radio User Manual

Model: DX-286

Brand: QODOSEN

1. INTRODUCTION

This user manual provides comprehensive instructions for the operation and maintenance of your QODOSEN DX-286 Portable Radio. Designed with an NXP TEF6686 automotive chip, this radio offers ultra-high sensitivity and selectivity across LW, AM, FM, and Shortwave bands. Please read this manual thoroughly to ensure proper use and to maximize your listening experience.



Figure 1: Front view of the QODOSEN DX-286 Portable Radio, showing the speaker, LCD display, and control buttons.

2. PACKAGE CONTENTS

Ensure all items are present in the box:

- DX-286 Radio x1
- USB Charging Cable x1
- Carrying Case x1
- English User's Guide x1 (This document)

Note: The 18650 button-top battery required for operation is not included and must be purchased separately.



Figure 2: The DX-286 radio, its carrying case, and USB charging cable as included in the package.

3. SETUP

3.1 Battery Installation

The DX-286 radio is powered by a single 18650 button-top battery (not included). Follow these steps to install the battery:

1. Locate the battery compartment on the rear of the radio.
2. Open the battery compartment cover.
3. Insert one 18650 button-top battery, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

18650 BATTERY POWERED INDEPENDENT AMPLIFIER DESIGN



Figure 3: Illustration of the 18650 battery compartment and the radio's internal amplifier design.

3.2 Charging the Battery

Use the provided USB charging cable to charge the installed 18650 battery. Connect the small end of the USB cable to the radio's USB IN 5V port and the other end to a compatible USB power source (e.g., computer USB port, USB wall adapter).

The radio supports smart charging for the 18650 battery.

3.3 Antenna Setup

The DX-286 features a telescopic antenna for FM, LW, MW, and SW reception, and also supports an external antenna.

- **Telescopic Antenna:** Extend the telescopic antenna fully for optimal reception, especially for FM and Shortwave bands.
- **External Antenna:** For enhanced reception, particularly on LW, MW, and SW, connect an external antenna to the ANT. interface on the side of the radio.

Warning: Do not use the outdoor external antenna during thunderstorms to protect against lightning strikes!



Figure 4: The external antenna interface (ANT.) on the side of the DX-286 radio.



Figure 5: The antenna switching feature, allowing selection between internal and external antennas.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

Press the red **SLEEP** button briefly to power on the radio. To power off, press and hold the **SLEEP** button.

4.2 Band Selection and Tuning

The DX-286 supports FM, AM (MW), SW, and LW bands. Use the dedicated **FM** and **AM** buttons to switch between these bands. The AM button cycles through AM (MW), SW, and LW.

Frequency ranges supported:

- **FM:** 64-108 MHz (various regional settings available)
- **AM (MW):** 520-1710 kHz (tuning step 9KHz/10KHz selectable)
- **SW:** 1711-27000 kHz
- **LW:** 144-519 kHz



Figure 6: Overview of the frequency ranges and tuning steps available on the DX-286 radio.

Tuning Methods:

- **Manual Tuning:** Use the tuning knob on the right side of the radio to adjust the frequency.
- **Direct Frequency Input:** Use the numeric keypad (0-9) to directly enter a desired frequency.
- **Auto Tuning Storage (ATS):** Press the **AUTO** button to automatically scan and store available stations.
- **Seek Tuning:** Use the **AUTO** up/down arrows to seek the next strong station.

4.3 Key Features and Functions

The DX-286 radio is equipped with a variety of functions for an enhanced user experience:

- **Clock/World Time:** Display current time and world time.
- **Alarm Modes:** Set up to two alarms.
- **Sleep Timer:** Configure the radio to automatically turn off after a set period.
- **SNR/RSSI Display:** View Signal-to-Noise Ratio and Received Signal Strength Indicator.
- **Memory Pages:** Store up to 1000 cross-band memories across 100 editable memory pages.
- **Squelch Level:** Adjust the squelch to reduce background noise.
- **FM Signal Processing Level:** Fine-tune FM signal reception.
- **Tone Switching:** Switch between music and voice tone modes for optimal audio.
- **One-Key Mute:** Quickly mute the audio output.
- **LCD ON/OFF & Backlighting:** Control the LCD display and backlight for visibility in various conditions.
- **Antenna Attenuator:** Reduce strong signals to prevent overload.
- **Low-Noise Amplifier (LNA):** Enhance weak signals for better reception.
- **RBDS/RDS Support:** Receive Radio Broadcast Data System information on FM.



Figure 7: A comprehensive list of features available on the DX-286 radio.



Figure 8: The antenna attenuator feature, useful for strong signal environments.



Figure 9: The built-in low noise amplifier (AMP) feature, which can be toggled on or off.



Figure 10: The tone switching function, allowing selection between music and voice audio profiles.



Figure 11: The one-key mute function and the option to switch the LCD display on or off.

4.4 Audio Output

The radio is equipped with a full-range speaker for clear audio. For private listening, connect 3.5mm headphones to the headphone jack on the side of the radio.



Video 1: An overview of the DX-286 radio's features and operation modes, provided by the seller.

5. MAINTENANCE

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

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Battery not installed, low battery, incorrect battery type (flat-top vs. button-top).	Ensure a charged 18650 button-top battery is correctly installed. Charge the battery if low.
Poor reception/static.	Antenna not extended, weak signal, interference, incorrect band/frequency.	Extend the telescopic antenna. Try an external antenna. Adjust position to reduce interference. Verify correct band and frequency. Adjust attenuator or LNA settings.
Buttons unresponsive/radio frozen.	Temporary software glitch.	Perform a system reset. Locate the "RESET" pinhole on the bottom of the radio and gently press it with a thin, non-metallic object (e.g., paperclip).

7. SPECIFICATIONS

Feature	Detail
Model Number	DX-286
Brand	QODOSEN
Tuner Technology	FM/LW/MW/SW (TEF6686 Automotive Chip)
Frequency Ranges	FM: 64-108 MHz, AM: 520-1710 kHz, SW: 1711-27000 kHz, LW: 144-519 kHz
Power Source	Battery Powered (1 x 18650 button-top battery, not included)
Connectivity	USB (for charging)
Dimensions (L x W x H)	5.27 x 1.18 x 2.99 inches (13.39 x 3.00 x 7.59 cm)
Item Weight	7.1 ounces (201 grams)
Special Features	Antenna Attenuator, Antenna Switch, AMP Switch, 1000 Presets, Tone Switch, Clock/UTC/Alarm/Sleep, Data System (RBDS/RDS)

8. WARRANTY AND SUPPORT

8.1 Warranty Information

For specific warranty details regarding your QODOSEN DX-286 Portable Radio, please refer to the warranty card included with your product or contact QODOSEN customer support directly. Protection plans may be available for purchase separately.

8.2 Customer Support

If you encounter any issues or have questions not covered in this manual, please contact QODOSEN customer support. Contact information can typically be found on the product packaging or the official QODOSEN website.