

XHDATA D-808

XHDATA D808 Multi-Band Portable Radio User Manual

Model: D-808

1. IMPORTANT SAFETY INFORMATION

Please read and understand all safety instructions before using the XHDATA D808 radio. Keep this manual for future reference.

1.1 General Safety

- Do not expose the radio to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping the radio or subjecting it to strong impacts.
- Do not attempt to disassemble or modify the radio. This will void the warranty and may cause damage or injury.
- Keep the radio away from water and other liquids.
- Clean the radio with a soft, dry cloth. Do not use abrasive cleaners or solvents.

1.2 Battery Safety

- The radio uses a rechargeable Lithium Ion 18650 battery (3.7V). Ensure correct polarity when inserting the battery.
- Use only the provided USB charging cable and a compatible DC 5V power source for charging.
- Remove the paper insulator from the battery compartment before first use.
- Do not expose batteries to excessive heat or fire.
- If the radio will not be used for an extended period, remove the battery to prevent leakage.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x XHDATA D808 Portable Radio

- 1 x Specific Carrying Bag
- 1 x External Antenna
- 1 x USB Charging Cable (Type-C)
- 1 x Rechargeable 18650 Lithium Ion Battery (included)
- 1 x English User Manual

3. PRODUCT OVERVIEW

The XHDATA D808 is a versatile multi-band radio designed for excellent reception and clear audio across various frequency ranges. It features a DSP chip for enhanced signal processing and a user-friendly interface.

3.1 Key Features

- **Multi-Band Reception:** FM, AM (MW), Shortwave (SW), Longwave (LW), and Air Band.
- **SSB (Single Side Band):** Capable of receiving SSB signals for advanced radio enthusiasts.
- **RDS (Radio Data System):** Displays station information on FM broadcasts.
- **DSP Chip:** Digital Signal Processing for improved sensitivity and selectivity.
- **Large LCD Display:** Clear display for frequency, time, temperature, and signal strength.
- **Alarm Clock & Sleep Timer:** Integrated alarm and timed shutdown functions.
- **500 Station Memories:** Store and quickly access your favorite radio stations.
- **Dual Power Options:** Rechargeable 18650 Li-ion battery and Type-C USB DC 5V input.
- **High-Quality Speaker:** Built-in speaker with strong noise reduction and sensitivity.
- **External Antenna Jack:** For enhanced reception on various bands.

3.2 Visual Overview

Multiband Aviation Band Radio



Figure 1: Front view of the XHDATA D808 radio, highlighting its multi-band capabilities including Air, RDS, LW, HAM, SW, MW, FM, and SSB. The display shows frequency 29.999 KHz and time 6:00.

Portable Digital Radio



External
Antenna Jack



Digital Signal
Processing



Ambient
Temperature



Automatic
Search



500 Memory
Stations



Alarm Clock



Air Band



FM Stereo



Single
side band



Timed
Shutdown

Figure 2: Overview of the XHDATA D808's digital features, including External Antenna Jack, Digital Signal Processing, Ambient Temperature, Automatic Search, 500 Memory Stations, Alarm Clock, Air Band, FM Stereo, Single Side Band, and Timed Shutdown.

SSB Captures Every Signal, Making Listening Limitless



Maritime



Meteorological



HAM Radio



Figure 3: The XHDATA D808 radio demonstrating its SSB capability, capturing signals from Maritime, Meteorological, and HAM Radio sources. The display shows SW 29.999 KHz, SSB LSB, and time 6:00.

AC Power Supply



Rechargeable Detachable Battery



2000mAh Rechargeable Battery

Figure 4: Illustration of the XHDATA D808's dual power supply options: AC Power Supply (Type-C USB) and a 2000mAh Rechargeable Detachable Battery.

Product Size



Product Accessories



Dedicated Package



English User Manual



USB Charging Cable



External Antenna



Battery



Wrist Strap

Figure 5: The XHDATA D808 radio with its dimensions (157mm x 92mm x 32mm) and included accessories: Dedicated Package, English User Manual, USB Charging Cable, External Antenna, Rechargeable Battery, and Wrist Strap.

Alarm Clock

Wake up to the pleasant sounds



Figure 6: The XHDATA D808's display showing Alarm Clock (7:03 AL), Timed Shutdown (45 min, 7:02), and Ambient Temperature (24°C).

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment on the back of the radio.
2. Open the battery compartment cover.
3. Remove the protective paper insulator from the included 18650 Lithium Ion battery.
4. Insert the battery, ensuring the correct polarity (+ and - terminals match the markings inside the compartment).
5. Close the battery compartment cover securely.

4.2 Charging the Battery

The radio can be charged via its Type-C USB port.

1. Connect the provided USB charging cable to the Type-C port on the side of the radio.
2. Connect the other end of the USB cable to a DC 5V power source (e.g., a USB wall adapter, computer USB port, or power bank).
3. The battery indicator on the LCD display will show charging status.
4. Charging is complete when the battery indicator shows a full charge.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the **POWER** button (orange button) on the top right of the front panel to turn the radio on or off.

5.2 Band Selection

Press the corresponding band buttons (FM, AM BW/FM ST, LW/MW, SW, AIR) to switch between frequency bands.

- **FM:** 64-108MHz
- **AM (MW):** 520-1710KHz
- **LW:** 153-513KHz (9K)
- **SW:** 1711-29999KHz
- **Air Band:** 118-137MHz

5.3 Tuning Methods

The D808 offers multiple ways to tune into stations:

- **Manual Tuning:** Use the **TUNING** knob on the right side of the radio to adjust the frequency.
- **Step Tuning:** Press the **STEP TUNING** button (integrated into the tuning knob) to change the tuning step size.
- **Direct Frequency Input:** Use the numeric keypad (0-9) to directly enter a frequency, then press **FREQ** to confirm.
- **Automatic Tuning Storage (ATS):** Long-press the **ATS** button to automatically scan and store available stations in the current band.
- **Up/Down Arrow Keys:** Use the **▲** and **▼** buttons to scan for the next available station.
- **Fine Tuning:** Use the **FINE TUNE** slider on the right side for precise frequency adjustments, especially useful for SSB.

5.4 SSB (Single Side Band) Operation

Press the **SSB** button to activate SSB mode. Use the **FINE TUNE** slider to adjust the frequency for clear reception of USB (Upper Side Band) or LSB (Lower Side Band) signals.

5.5 Squelch Function (Air Band)

In Air Band mode, long-press the **SQUELCH** button (integrated into the tuning knob) to adjust the squelch level (OFF, 1-9) to reduce background noise.

5.6 Memory Management

The radio can store up to 500 stations across various bands.

- **Saving a Station:** Tune to the desired station, then long-press the **PAGE** button, enter a memory location (0-99), and long-press **PAGE** again to save.
- **Recalling a Station:** Press the **PAGE** button, then enter the memory location (0-99), and short-press **PAGE** to recall.

5.7 Alarm Clock and Sleep Timer

- **Setting Alarm:** Press **ALARM** to enter alarm setting mode. Use the numeric keypad to set the alarm time, then press **ALARM** again to confirm.
- **Setting Sleep Timer:** Press **SLEEP** to activate the sleep timer. Repeated presses will cycle through available sleep times (e.g., 0-120 minutes).

6. MEDIA INTEGRATION

The XHDATA D808 is designed for optimal performance and user experience. The following videos provide additional insights into its features and operation.

6.1 Product Feature Overview

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Video 1: A concise overview of the XHDATA D808's main features, including its multi-band capabilities (AM, FM, SW, LW, Air Band, SSB, RDS) and various functions like alarm, time setting, and temperature display. This video is provided by xhdata US (Seller).

6.2 Portable Speaker Display and External Antenna

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Video 2: This video demonstrates the XHDATA D808's portable speaker display and the use of its external antenna for improved reception. Provided by Pico's Pals (Seller).

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the radio's exterior. Do not use liquid cleaners or aerosols.
- **Antenna Care:** Handle the telescopic antenna gently to avoid bending or breaking. When not in use, retract it fully.
- **Storage:** Store the radio in a cool, dry place away from direct sunlight and extreme temperatures. If storing for long periods, remove the battery.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power / Radio does not turn on	Battery is low or not inserted correctly; Protective paper insulator not removed.	Charge the battery fully. Ensure the battery is inserted with correct polarity and the insulator is removed.
Poor reception / Static noise	Weak signal; Antenna not extended; Interference from electronic devices.	Fully extend the telescopic antenna. Use the external antenna for better reception. Move away from interfering electronics. Adjust fine-tuning.
Sound distortion at certain volume levels	Internal speaker resonance.	Adjust the volume slightly above or below the distortion point. Consider using headphones for optimal clarity.
Cannot recall saved stations easily	Incorrect memory recall procedure.	Ensure you are in the correct band, then use the PAGE button and numeric keys to recall stations as per instructions.
Display is dim or not working	Low battery; Display light off.	Charge the battery. Press the LIGHT button to turn on the display backlight.

If the radio becomes unresponsive, you may attempt to reset it by pressing the **RESET** button located on the bottom of the radio using a small pointed object.

9. SPECIFICATIONS

- **Product Dimensions:** 5.9 x 2 x 3.4 inches (157mm L x 92mm H x 32mm W)
- **Item Weight:** 1.12 pounds
- **Power Source:** Battery Powered (1 x 18650 Lithium Ion battery, 3.7V, included)
- **Charging:** Type-C USB DC 5V input
- **Radio Bands Supported:** FM, AM (MW), SW, LW, Air Band
- **Frequency Range:**
 - FM: 64-108MHz
 - AM: 520-1710KHz
 - LW: 153-513KHz (9K)
 - SW: 1711-29999KHz
 - Air Band: 118-137MHz
- **Special Features:** Built-In AM Antenna, Built-In Clock, Lightweight, Portable, Rechargeable, SSB, RDS, DSP.
- **Connectivity Technology:** USB
- **Manufacturer:** XHDATA

10. WARRANTY AND SUPPORT

XHDATA is committed to providing high-quality products and customer satisfaction.

- **Warranty:** This product comes with a 1-year after-sales service warranty.
- **Returns:** A 30-day return policy is available for this product.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact XHDATA customer service. Refer to the product packaging or official XHDATA website for contact details.