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RADIWOW D109WB, D219

User Manual

XHDATA D109WB & D219 Portable Shortwave Radios
Model: D109WB, D219 | Brand: RADIWOW

1. INTRODUCTION

This user manual provides comprehensive instructions for the operation and maintenance of your XHDATA D109WB and XHDATA D219 portable shortwave radios. The D109WB model offers advanced features including FM, AM, SW, LW, and NOAA Weather Band reception, Bluetooth connectivity, and TF card MP3 playback. The D219 model is a compact and easy-to-use radio with FM, AM, and SW bands. Please read this manual thoroughly before using your radios to ensure proper function and longevity.



Image: The XHDATA D109WB (top) and XHDATA D219 (bottom) portable shortwave radios. The D109WB features a digital display and keypad, while the D219 has a simpler analog-style interface.

2. SAFETY INFORMATION

- Do not expose the radios to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping or subjecting the radios to strong impacts.
- Do not attempt to disassemble or modify the radios. This will void the warranty and may cause damage.
- Keep the radios away from strong magnetic fields.
- Use only the specified power source and batteries.
- Dispose of batteries properly according to local regulations.
- Clean the radios with a soft, dry cloth. Do not use liquid cleaners or aerosols.

3. PACKAGE CONTENTS

Please check the package for the following items:

- XHDATA D109WB Shortwave Radio (1 unit)
- XHDATA D219 Portable Shortwave Radio (1 unit)
- Earphone (1 pair)
- User Manual (this document)

4. PRODUCT OVERVIEW

4.1 XHDATA D109WB Radio



Image: Front view of the XHDATA D109WB radio, showing the LCD display, keypad, and control knobs.

The D109WB features a clear LCD display, a numeric keypad for direct frequency input, and dedicated buttons for various functions including band selection (FM, AM, SW, LW, WB), alarm settings, and Bluetooth/MP3 controls. A tuning knob and volume knob are located on the side.

- **LCD Display:** Shows frequency, time, signal strength, battery level.
- **Keypad:** For direct frequency entry and memory recall.
- **Tuning Knob:** For fine-tuning frequencies.
- **Volume Knob:** Adjusts audio output level.
- **Antenna:** Telescopic antenna for improved reception.
- **Speaker:** Integrated speaker for audio output.

- **3.5mm Earphone Jack:** For private listening.
- **TF Card Slot:** For MP3 playback.
- **DC 5V IN Port:** For charging or external power.

4.2 XHDATA D219 Radio



Image: Front view of the XHDATA D219 radio, showing the tuning dial and band switch.

The D219 is designed for simplicity and portability. It features an analog tuning dial and a band switch to select between FM, AM, and SW.

- **Tuning Dial:** Displays frequency and allows manual tuning.
- **Band Switch:** Selects FM, AM, or SW band.
- **Volume Knob:** Adjusts audio output level and acts as power on/off.
- **Antenna:** Telescopic antenna for improved reception.
- **Speaker:** Integrated speaker for audio output.

- **3.5mm Earphone Jack:** For private listening.
- **Power Indicator:** LED light to indicate power status.



Image: The XHDATA D219 radio displaying its compact dimensions (4.92 inches x 1.1 inches x 2.95 inches) and light weight (approximately 152 grams without battery), highlighting its portability.

5. SETUP

5.1 Powering the XHDATA D109WB

The D109WB radio is powered by a rechargeable battery (not specified in input, assuming internal or common type like 18650). It can also be powered via the DC 5V IN port.

1. **Battery Installation:** Open the battery compartment cover on the back of the radio. Insert the battery, ensuring correct polarity (+/-). Close the cover securely.
2. **Charging:** Connect a 5V USB power adapter (not included) to the DC 5V IN port using a compatible USB cable. The battery indicator on the LCD will show charging status.

5.2 Powering the XHDATA D219

The D219 radio typically uses AA batteries (not specified in input, common for portable radios).

1. **Battery Installation:** Open the battery compartment cover on the back of the radio. Insert the required batteries, observing the correct polarity (+/-). Close the cover securely.
2. **Power On/Off:** Rotate the Volume knob clockwise to turn the radio on. Rotate it counter-clockwise until it clicks to turn off.

5.3 Antenna Setup

For optimal reception on both models, fully extend the telescopic antenna. For FM and SW bands, the antenna is crucial. For AM and LW, the internal ferrite bar antenna is primarily used, but extending the telescopic antenna can sometimes improve reception.



Image: The XHDATA D219 radio with its telescopic antenna fully extended, illustrating the importance of antenna extension for FM/AM/SW reception. The image also shows the frequency ranges for FM1 (87-108 MHz), FM2 (64-87 MHz), SW1-9 (4.75-22.0 MHz), and AM (520-1710 KHz).

6. OPERATING INSTRUCTIONS

6.1 Basic Radio Operation (Both Models)

1. **Power On:**

- *D109WB*: Press the **Power** button.
- *D219*: Rotate the **Volume** knob clockwise.

2. **Select Band:**

- *D109WB*: Press the dedicated band buttons (FM, AM, SW, LW, WB).
- *D219*: Slide the **Band Switch** to FM, AM, or SW.

3. **Tune to a Station:**

- *D109WB*: Use the **Tuning Knob** for manual tuning, or use the numeric keypad for direct frequency input. Press **ATS** (Auto Tuning Storage) for automatic station scanning and saving.
- *D219*: Rotate the **Tuning Knob** to find your desired station on the analog dial.

4. **Adjust Volume:** Rotate the **Volume** knob on the side of the radio.

5. **Earphone Use:** Plug 3.5mm earphones into the earphone jack for private listening.

6.2 XHDATA D109WB Specific Features

6.2.1 NOAA Weather Band (WB)

The D109WB can receive 7 NOAA Weather Bands to provide real-time weather alerts and forecasts.

1. Press the **WB/ALE** button to enter the Weather Band mode.
2. The radio will automatically scan for active NOAA weather channels.
3. Press **WB/ALE** again to activate the NOAA Alert function, which will sound an alarm if a weather alert is broadcast.

7 NOAA Weather Bands

SOS Distress Alarm



Image: The XHDATA D109WB radio with an overlay highlighting its 7 NOAA Weather Bands and SOS Distress Alarm features, indicating its utility for emergency preparedness.

6.2.2 Bluetooth Connectivity

The D109WB can function as a Bluetooth speaker for your mobile devices.

1. Press the **BT/L** button to enter Bluetooth mode. The display will show "BT" and an icon indicating pairing mode.
2. On your mobile device, enable Bluetooth and search for "D-109" or similar. Select it to pair.
3. Once paired, you can play audio from your device through the D109WB speaker. The radio also supports wireless calls when connected.

Wireless Bluetooth

Music has always been a companion

Great Sound
Support TF Card



Image: The XHDATA D109WB radio wirelessly connected to a smartphone via Bluetooth, demonstrating its capability to play music from a mobile device. The image also highlights support for TF cards.

6.2.3 TF Card MP3 Player

Play music directly from a TF (microSD) card inserted into the D109WB.

1. Insert a TF card with MP3 audio files into the TF card slot.
2. Press the **MUSIC** button (often shared with BT/L or a dedicated button) to switch to MP3 playback mode.
3. Use the playback control buttons (Play/Pause, Next/Previous Track) to manage your music.

6.2.4 Alarm Clock and Sleep Timer

The D109WB includes alarm clock and sleep timer functions.

- **Setting Alarm:** Press **ALARM A** or **ALARM B** button, then use the keypad to set the alarm time. Confirm with the appropriate button.

- **Setting Sleep Timer:** Press the **SLEEP** button repeatedly to cycle through sleep timer durations (e.g., 10, 20, 30, 60, 90 minutes). The radio will automatically turn off after the set time.

6.2.5 SOS Distress Alarm

The D109WB features an SOS alarm for emergency situations.

- Press the **SOS** button to activate a loud distress alarm sound.
- Press the **SOS** button again to deactivate the alarm.



Image: The XHDATA D109WB radio surrounded by icons representing its key features: Radio, NOAA Scan Alert, Bluetooth 5.0, TF card support, Alarm Clock, 5W Speaker, SOS Alarm, 500 Memory Stations, Earphone Jack, and Auto Frequency Search (ATS).

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to wipe the radio's surface. Do not use abrasive cleaners, solvents, or strong chemicals, as these can damage the finish.

- **Storage:** When not in use for extended periods, remove batteries from the D219 to prevent leakage. Store both radios in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care (D109WB):** If the D109WB uses a rechargeable battery, ensure it is charged periodically even if not in use to maintain battery health. Avoid fully discharging the battery frequently.
- **Antenna Care:** Handle the telescopic antenna gently. Do not bend or force it, as this can cause damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power / Radio does not turn on	◦ Batteries are dead or incorrectly installed. ◦ D109WB battery is fully discharged.	◦ Replace batteries (D219) or ensure correct polarity. ◦ Charge the D109WB battery.
Poor reception / Static	◦ Antenna not fully extended. ◦ Weak signal in your location. ◦ Interference from electronic devices.	◦ Fully extend the telescopic antenna. ◦ Try moving to a different location (e.g., near a window). ◦ Move radio away from computers, TVs, or other electronics.
D109WB Bluetooth not connecting	◦ Radio not in Bluetooth pairing mode. ◦ Device Bluetooth is off or already connected to another device.	◦ Ensure D109WB is in Bluetooth mode (display shows "BT"). ◦ Check your device's Bluetooth settings.
TF card not playing (D109WB)	◦ TF card not inserted correctly. ◦ Files on TF card are not in MP3 format. ◦ TF card is corrupted.	◦ Reinsert the TF card firmly. ◦ Ensure audio files are in MP3 format. ◦ Try a different TF card.

9. SPECIFICATIONS

Feature	XHDATA D109WB	XHDATA D219
Model Number	D109WB	D219
Radio Bands Supported	FM (64-108MHz), AM (520-1710KHz), LW (153-513KHz), SW (1711-29999KHz), WB (162.40-162.55MHz)	FM (64-108MHz), AM (520-1710KHz), SW (4.75-22.0MHz)
Tuner Technology	DSP	Analog
Connectivity Technology	Bluetooth 5.0, TF Card	N/A
Special Features	NOAA Weather Alert, SOS Alarm, Alarm Clock, Sleep Timer, MP3 Player, Wireless Call Support, 500 Memory Presets, ATS	Portable, Simple Operation
Display Technology	LCD	Analog Dial

Feature	XHDATA D109WB	XHDATA D219
Power Source	Battery Powered (Rechargeable, via DC 5V)	Battery Powered (e.g., AA batteries)
Color	Black	
Included Components	Earphone, User Manual	
Dimensions (Approx.)	Not explicitly stated, but generally compact.	4.92 x 1.1 x 2.95 inches (12.5 x 2.8 x 7.5 cm)
Weight (Approx.)	Not explicitly stated.	152 grams (without battery)

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact the manufacturer directly.
Manufacturer: RADIWOW
For further assistance, you may visit the official RADIWOW store on Amazon:[RADIWOW Store](#).

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