

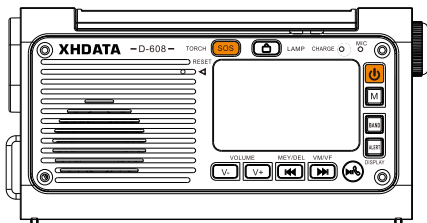
XHDATA

D-608

User Manual

Hand Cranked Emergency Power Generation
Global Band Radio

WB/NOAA Weather Warning Radio



3000mAH power battery strongly guarantees emergency use
of mobile phone charging

Wireless BT music playback and wireless calling
functions

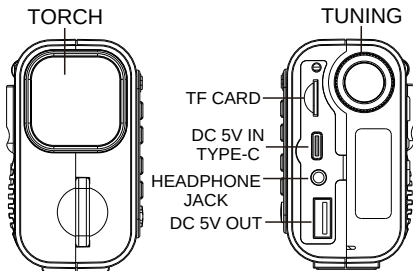
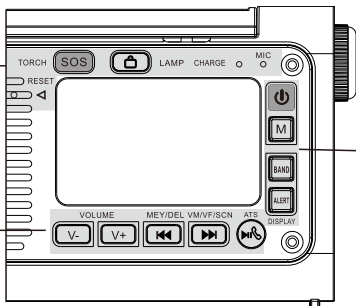
Function Operation

- **RESET:** Reset switch hole
- **TORCH/SOS:** Flashlight/Danger Signal
- **LOCK/LAMP:** Keyboard lock/lighting and other switches
- **CHARGE:** Charging indicator
- **MIC:** Cell phone call pickup hole

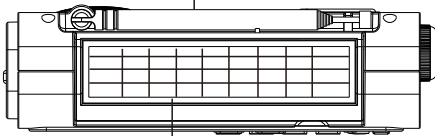
- **Power/short press memory** to turn on/long press to turn on and adjust sleep switch mode
- **M** Switch Bluetooth playback/TF card playback mode and save alarm mode. Turn the alarm on and off when powered off/long press to adjust the alarm time and duration
- **BAND:** Radio band conversion (FM/MW/SW/WB) and FM and MW receiving frequency range adjustment after changing the device
- **ALERT/DISPLAY:** American weather warning WB automatic standby mode and short press to switch the display content of the secondary display area

V-/V+ (VOLUME) Short press to manually adjust the volume/long press to automatically adjust the volume

- **◀◀** Previous song/quick rewind played by Bluetooth and TF card. In radio mode, manually store radio stations and manually delete stored radio stations.
- **▶▶** **VM/VF(SCAN)**: Previous song/quick rewind played by Bluetooth and TF card. In the radio state, short press to switch between manually searching the radio frequency VF and recalling the memory radio frequency VM. Press and hold to enter radio station browsing mode
- **⏸** / **ATS**: Play/pause key (wireless call key). Long press in radio mode automatically searches for and remembers radio stations. Double-click on the short wave band to automatically scan the current meter wave.

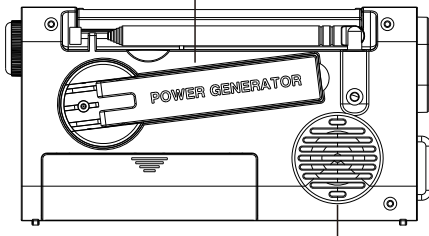


FM Antenna



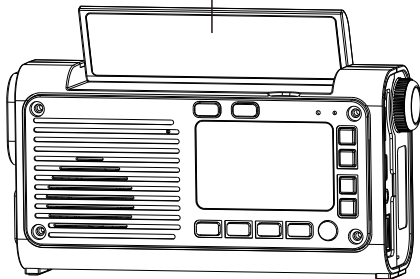
Solar Panels

Hand Crank Generator Rocker Arm



Bass Vibration Plate Air Outlet

Lighting Luminous Panel



DISPLAY

Power Display



Low battery



Full battery



Sleep shutdown



ALET WB band standby automatic scanning



Alarm clock icon



Lock keyboard icon



Battery charging indicator



Mobile phone call alert symbol



Radio signal field strength

• VOL volume

• MB SW short wave meter wave display

• AL Alarm time display icon

• MEM. Memory station number display icon



• RSSI Radio signal strength

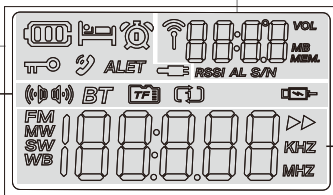


• S/N Radio signal-to-noise ratio scale value



• °C / °F Temperature display

Secondary display area



Main display area



FM stereo



• BT Bluetooth function symbol



• TF TF card icon



• TF plays single loop



• DC5V output mobile phone emergency charging

• >> Browse icons by station frequency

• KHZ KHZ radio frequency unit

• MHZ MHZ radio frequency unit

• FM/MW/SW/WB :FM/MW/SW/WB band display icon

Power Supply

- Please install the positive and negative terminals of the 3.7V (18650) lithium battery correctly into the battery and battery compartment.
- DC'5V IN Type-C charging socket power supply

Power on/off

-  Power on: Short press the power button, the display shows "ON"
-  Power off: Short press the power button, the display shows "OFF"

Radio Operation

(The following operations need to be set in the shutdown state)

● Set frequency coverage

- Different countries have different medium wave and FM frequency coverage. Please set according to the conditions of different countries.
- FM frequency range setting:
After long pressing (BAND), short press to switch the FM receiving frequency range respectively.
The screen will show 64,76,87,87.5,
Indicates that the frequency coverage is:
64-108MHZ, 76-108MHZ, 87-108MHZ and 87.5-108MHZ
- 1. When the FM receiving frequency is selected: 64-108MHZ/76-108MHZ/87-108MHz:
2. The corresponding MW frequency coverage range is automatically set to: 522-1620KHz (9K) (Using Asia, Europe, Africa and Oceania)
3. In this state, the temperature will be displayed in degrees Celsius (°C)
- 1. When the FM receiving frequency is selected: 87.5-108MHz:
2. The corresponding MW frequency coverage is automatically set to: 520-1710KHz (10K) (applicable to North and South America)
3. In this state, the temperature will be displayed in degrees Fahrenheit (°F)

Select band

-  Short press the (power) button to (ON)
- Short press the (BAND) key to switch bands (FM/MW/SW/WB)
- Switch to short wave meter band: Press and hold the (BAND) button in the short wave band, the meter band icon flashes, and turn the shuttle to switch to each meter band.
- When receiving FM and shortwave, you can choose to use a whip antenna and rotate the antenna angle to get the best reception.
- Rotate the body angle for optimal reception sensitivity when using MW and LW

Search radio frequency

▷ Adjust wireless frequency

1. Manual scan frequency (VF)

- Short press (VF) key
- Turn the tuning knob slowly or quickly (tuning)

2. Automatically browse radio frequency (VF)

- Long press the (SCAN) button to enter browsing. When a station is scanned, it will stop for 15 seconds. Short press (SCAN) to stop searching, and continue scanning without any operation.

▷ Manually store a station

1. Manually search for radio stations (VF)

- Select band
- Rotate (TUNING) to select the station frequency to be stored
- Short press the (MEMORY) button, the station number flashes in the upper right corner
- Short press the (MEMORY) button again to store the changed radio station

2. Fully automatic scanning and storage of radio stations

- Select band
- Long press the ( ATS) key to automatically scan and store the entire band radio stations

3. Shortwave single meter band automatic search mode

- Quickly double-click the ( ATS) key in the shortwave receiving state to enter the current meter band scanning memory mode.

Tip

Radio signals will be affected by factors such as season/time period/weather, receiving environment, electromagnetic interference, and receiving antenna angle and azimuth. Therefore, ATS memory should be updated frequently

▷ Manually recall stored radio stations (VM)

1. After the radio station search is completed, you can short press the (VM) key to enter the memory radio mode.
2. Turn the (TUNING) shuttle button to recall each stored radio frequency

▷ Automatically retrieve the stored radio frequency (VM)

1. Select the band and short press the (VM) key. Long press (SCAN) to enter automatic browsing mode
2. Scan each memory station code for 5 seconds and press the SCAN button to select listening. If there is no operation, continue scanning the next radio frequency.

How to delete stored radio stations

▷ Select the stored station to be deleted

1. Short press the (VM) key to enter the memory radio mode.
2. Select the band
3. Turn the (tuning) button to select the digital station frequency you want to delete
4. Press and hold the (DELETE) key for 3 seconds to display [DEL]. Then short press again to confirm deletion

▷ Delete all stored stations for the current band

1. Short press the (VM) key to enter the memory radio mode.
2. Select the band
Press and hold the (DELETE) key until the sub-display area displays (ALL), release it and short press again to confirm deletion of all stored stations in this band

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Use of WB / NOAA / ALERT

WB/NOAA channel reception range

- There are 7 channels in total: channels 1-7 (162.400-162.550MHz)

▷ Manually search for WB/NOAA radio channels

-  Short press (power) button to (ON) to turn on
- Select the band: short press the (BAND) button to WB, turn the (TUNING) shuttle to adjust the receiving frequency (162.400-162.550MHz)

▷ Automatically scan WB/NOAA radio channels and warn of reception methods

-  Short press (power) button to (ON) to turn on
- Select the band: Short press the (BAND) key to switch to any radio band
- Long press the (ALERT) key to directly enter the "NOAA" automatic scanning warning reminder state. When any "NOAA" channel issues a disaster warning, the machine will immediately send out a "sos" sound and light synchronized warning to remind the user to receive NOAA disaster warning information.
- Long press the (ALERT) key to eliminate the "SOS" warning signal. This machine automatically enters the "NOAA" disaster warning information receiving channel to receive voice warning information.

SOS Danger Distress Information Usage

- In any state, long press (SOS) to turn on the sound and light synchronized distress signal. Press and hold again to close

Use of Flashlights and Lights

- In any state, short press (TORCH) to turn on the flashlight, there are 3 brightness levels to choose from, short press (TORCH) repeatedly to adjust the brightness and turn off the flashlight.
- In any state, short press the (LAMP) button to turn on the lighting. There are 3 brightness levels to choose from. Press (LAMP) repeatedly to adjust the brightness and turn off the lighting.

Stereo headphone output

- This machine is equipped with FM and Bluetooth/MP3 stereo headphone outputs. Use 3.5 headphone jack.

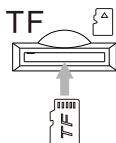
Tip

Stereo will not turn on when the station is using a mono radio or reception is weak

Bluetooth/MP3 Playback Function

TF card mp3 player

1. Insert TF card with music files
2. Short press the (M) key to enter the TF card MP3 playback state
3. ⏮ ⏭ Short press these two keys
Short press these two keys to select the previous and next song [tuning also selects songs]. Long press to achieve fast rewind and fast forward kinetic energy
4. ▶⏸ play/pause function button
5. In the TF playback state, long press the (BAND) key icon (📶) to display and enter the single loop playback mode. Long press the icon (🔁) to close and enter all loop playback mode



Bluetooth function operation

▷ Music playback

1. Short press the (BT/ ) key to enter the Bluetooth playback state
2. Open the Bluetooth connection interface of the mobile phone, search for the Bluetooth connection name (D-608) and connect, it will display successful connection (" )
3. Short press the () or () key or turn the (tuning) button to select the song. You can also select the song directly on your mobile phone.

▷ Wireless calling

When the phone is in Bluetooth connection state, short press () to answer the call, and short press again to end the call.

▷ Bluetooth forced disconnection

- After connecting to Bluetooth, press and hold the button () for 3 seconds to disconnect the current device. Long press again to reconnect to the device

Display content switch

- In any use state: short press (ALERT) key repeatedly, The display area in the upper right corner can be switched to: temperature display [signal strength/signal-to-noise ratio] value, alarm time and (local time) and memory radio frequency number

Display backlight switch

- Press any button in any state to light up for 5 seconds and then turn off automatically

● Sleep timer shutdown mode

- ▷ Long press the () key to turn on the phone, then the sleep icon () flashes
- Turn the (TUNING) key to select the startup time [01-120] and it will flash for 3 seconds to confirm automatically.

● Memory sleep timer shutdown mode

- Short press the () key to enter the memory power-on state

● Cancel sleep timer shutdown mode

- Press and hold the () button to turn on the phone, turn the (TUNING) shuttle button, and adjust the sleep time zone to (ON).

● Set clock

1. In the power off state, press and hold the () key
2. The clock will flash. Turn the (TUNING) shuttle to adjust the hour, short press to confirm, adjust the minutes, and then press the short press to confirm. The adjustment is completed.

● Alarm and scheduled shutdown function

- ▷ Turn the alarm on and off (set when the phone is turned off)

1. Short press the (M) key, the alarm icon lights up () and the alarm is turned on. Short press the alarm icon again to turn it off ()

- ▷ Adjust the alarm turn-on time and alarm duration (adjust when power off)

1. Press and hold the (M) key, the time in the secondary display area in the upper right corner flashes
2. Rotate the [TUNING] shuttle button to adjust the hours and press to confirm. Then adjust the minutes and press to confirm.
3. At this time, the main display area will adjust the alarm on duration to flashing, and turn the [Tuning] key within (0-60) minutes to select and then press briefly to confirm the adjustment is completed. Alarm icon lights up ()

▷ Set how the alarm turns on

1. Radio alarm mode

- Turn on the power, select the radio frequency you want to use as the alarm, and adjust the appropriate volume
- Press and hold the (M) key, the alarm icon (📻) will flash for 3 seconds to confirm automatically, and the setting is completed.

2. Play TF card music alarm mode

- Insert the music TF card and turn on the power
Short press the (M) key to enter TF card playback and adjust the appropriate volume.
- Press and hold the (M) key, the alarm icon (📻) will flash for 3 seconds and then automatically confirm that the setting is completed.

▷ Operations after turning on the alarm clock

After using the alarm clock to start the computer, you need to turn it off

- Short press the (⏻) key twice to turn off the machine
- To cancel the radio alarm clock lock frequency and music alarm clock lock, please short press the (⏻) key

● Keyboard lock

- Press and hold (🔒) for 5 seconds to lock the keyboard and (Tuning) button, and the icon (🔒) will light up. Press and hold for another 5 seconds to unlock the keyboard and (Tuning) button.

System Reset

- In rare situations such as accidental interference, the system may experience keyboard and breeding button malfunctions, display confusion, etc. Press the reset button with a sharp object to reset the system



How to Use the Charging Function

Normal charging operation

- When the machine's power display () is low or the battery is exhausted (), please charge it immediately
- Connect one end of the USB charging cable to the DC5V_USB output adapter, and plug the other end into the local (TYPE-C) jack [the adapter output is DC5V ($\geq 1A$)] to charge the machine. The display shows () charging symbol flashing
- When the icon () is displayed, the charging symbol () will not flash, indicating that it is fully charged.

Solar charging operation

- Simply point the solar panel of the device directly towards the sun to charge the device in an emergency.

Hand crank emergency charging operation

- Pull out the machine's rocker arm and rotate the rocker arm to charge the machine in an emergency.

— Tip —

- In order to avoid interference during charging and insufficient charging current, which may cause automatic shutdown and longer charging time, please do not use the machine in the early stages of charging.

Mobile Phone Emergency Charging

- In any state, plug in the USB 5V output power port to charge the mobile phone in an emergency.

— Tip —

Please do not use the radio function when using your mobile phone for emergency charging. The operation of the boost circuit will cause serious interference to the radio.

Safe Use of Lithium Batteries

1. The machine is powered by (18650 3.7V) rechargeable lithium battery. Only use batteries of the same and equivalent specifications. Improper use of lithium batteries may cause explosion!
2. Do not charge non-rechargeable batteries!
3. Do not charge non-rechargeable batteries. Batteries must not be placed in high-temperature environments such as moisture, explosion, battery smoke, etc!
4. Do not disassemble, impact or knock the lithium battery. If the lithium battery is deformed or bulged, it cannot be used
5. Please use a safe and qualified adapter for charging
6. In order to maintain the service life of the lithium battery, if the machine is not used for a long time, please charge it at least once every three months.

Performance Parameters

- Radio frequency range

FM: 64-108 MHz / 76-108 MHz

87-108 MHz / 87.5-108 MHz

MW: 522-1620 kHz (9K) / 520-1710 kHz (10K)

SW: 1711-29999 kHz (5K)

- Radio noise limit sensitivity

FM: (S/N=30dB): $\geq 2\mu\text{V}$

MW: (S/N=26dB): $\geq 1\text{mV/m}$

SW: (S/N=26dB): $\geq 18\mu\text{V}$

- Radio selectivity

FM: 60dB

MW: 60dB

SW: 60dB

- Maximum number of memory stations

FM: 100 pcs

MW: 100 pcs

SW: 300 pcs

- Maximum output power: 2.0 W

- Headphone impedance: 16-32 Ω
 - Speaker specifications:
40mm (double iron boron 16 cores) 4 Ω /5W
 - TF card: support 32G
 - Audio playback format:
Mp3/ WMA/ WAV/ FLAC
 - Bluetooth transmission distance: 10M
 - DC: 3.7V (18650) power battery 3000mAh
 - DC 5V input: DC5V/1000mA
-

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