

82.00 mm

136.00 mm

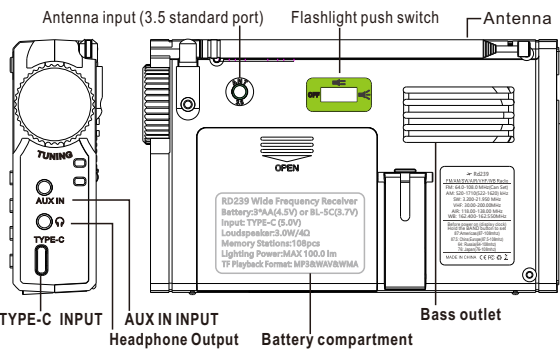
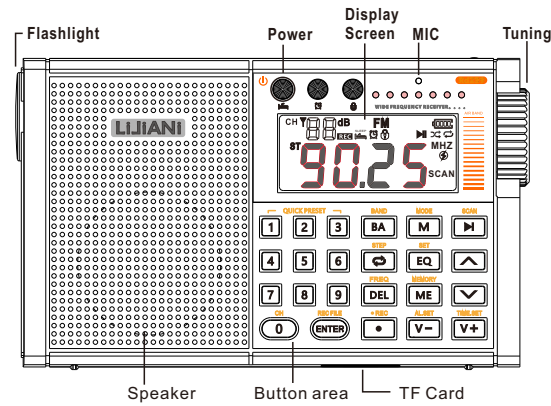
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Rd239 AIR/VHF/FM/AM/SW/WB Word band Radio

User Manual V2.9

The software is still being optimized. Please download the latest manual online or contact customer service at ZL393688798@Foxmail.com

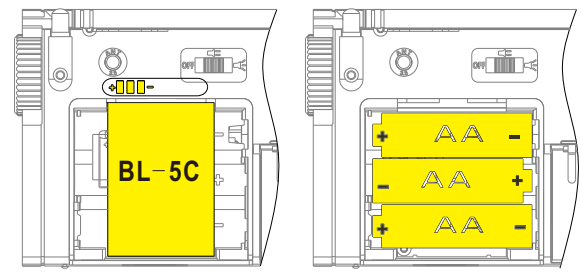
Introduction the Product



Load the Battery

This machine uses 3*AA batteries or BL-5C lithium batteries:

- When using AA batteries, please use alkaline 1.5V batteries, please do not use 1.2V rechargeable batteries, this machine at 3.3V (1.1V three batteries), the circuit will not work properly. So use 1.2V rechargeable battery, the power symbol can only show 2 cells of electricity, and soon after it drops to 1.1V, the radio will not work properly.
- When using BL-5C battery, please pay attention to the direction, if the battery is loose, please pad a piece of paper, foam, double-sided tape, etc. at the back. Different manufacturers of batteries, the size of deviation, the size of the large will not fit, the size of the small, will shake, shake too big will be easy to power off. Please pay attention to the use.
- This device has memory function, which can save the search and saved stations, favorite stations, last listened radio programs, etc. in the memory. However, when the battery is taken out, the memory will be lost after 3 seconds, so when we change the battery, try to do it within 3 seconds.
- please use DC 5V device to charge this machine, avoid using cell phone fast charging device, it is 9V and 12V charger. After charging is finished, please disconnect the charging cable in time, overcharging will reduce the battery life.
- when you need to play songs at high volume, please use BL-5c lithium battery, avoid using AA batteries, AA batteries generally have a large internal resistance, small power supply current, can not provide the required high power, may lead to early shutdown, sound lag, screen flicker, AA batteries are a backup emergency solution, please turn down the volume when using AA batteries.



BL-5C battery inserted into the direction please pay attention to Use 3*AA batteries, pay attention to the positive and negative direction.

Special Note

Please use Li-ion battery (BL-5C) first, AA battery can also be used, but AA battery should be used as an emergency backup plan. When using AA batteries, please turn down the volume or use headphones. In order to avoid, early shutdown, screen bright and dark flicker, sound lag, power drop fast, and other problems, because the AA battery power is small, it can not provide the high current required for loud volume. Turn down the volume will be normal.

Warning

Please do not use inferior batteries, the power of this machine is high, and the maximum output power of the speaker is 3W. It requires a higher current power supply. When the inferior battery cannot provide the required power, the radio will shut down prematurely, the screen will flicker, the sound will freeze, etc. When there is only one cell left in the battery, or when using a low-quality battery, if the sound is turned up to the maximum, it will shut down in advance. If you reinsert the battery, you will find that the battery still has 1 bar of power, or even 2 bars of power. In this case, the quality of the battery is not good enough, and the voltage shows that there is still power, but the battery cannot discharge a large current for the radio. Please turn down the volume or use headphones. It can still be used for a while. This is a good way to save electricity.

Power on radio

- Turn on the radio:**
- Press **POWER** key twice, once to show the clock (wake it up from hibernation), press it again to turn on the radio.
 - Sleep countdown - power on**
In the clock state, Long press the **POWER** key for 2 seconds to start the sound sleep function, the sleep symbol flashes on the screen and displays 90 (90 minutes), press the **POWER** key again to display 80, 70...10 in sequence, select the time we want, wait for two seconds, the radio will automatically turn on, the screen shows the hibernation symbol, after the sleep time countdown is complete, the radio will automatically shut down.
 - Turn off the radio:**
In the power on state, press the **POWER** key for 2 seconds. At this time, the screen displays the clock, indicating that the power has been turned off, 10 seconds later, the clock display goes off and enters the hibernation state, the clock is still running.

Listen to radio programs

Simple operation:
After power on, press **BAND** key to select different bands(FM-VHF-AM-SW-AIR-WB), then long press **SCAN** key 2 seconds, to search for stations auto. The searched radio stations are stored in the memory in order of CH01, CH02, ... Save up to 99 stations. Then press Δ or ∇ key to select previous station or next station, scroll **TUNING** knob to search for stations manually. Press **V+** or **V-** to adjust the sound level. Press **MODE** to enter TF card playback, and press **MODE** again to enter Bluetooth playback.

Lock key:

Press the **LOCK** key, the symbol on the screen is flashing, indicating that the **TUNING** knob is locked, press the **LOCK** key again, the symbol disappears, long press for 2 seconds, the lock key symbol is always on, indicating that all operations are locked. Long press the **LOCK** key again, the symbol on the screen disappears, indicating that the key is unlocked.

SCAN key:

In RADIO mode: Press the **SCAN** key for 2 seconds to start scan the radio automatically and save it, can short press to pause the radio station.
In MODE mode: Press **SCAN** key to pause playback or start playback.

CH key:

Press **CH** key, the screen displays CH ___, enter a number, such as "5", (1-digit or 2-digit), then press **ENTER** key to confirm. The station at position CH 05 starts playing. If there is no station saved in CH 05 position, CH - will be displayed.

FREQ key:

Press the **FREQ** key to display ---, then enter the frequency, such as 9050, then press **ENTER** key to confirm. The station at position CH 05 starts playing. 90.5MHz is saved on "5". You can overwrite 90.5MHz with a new frequency by long pressing the number key "5".
when we need to listen to it, directly press the "5" key.

PRESET mode:

After power on, press the **MEMORY** key to enter the **PRESET** mode, and it will exit automatically after 10 seconds if there is no operation. In **PRESET** mode, the **TUNING** knob will only advance through the saved stations. And, only in **PRESET** mode we can delete the station (long press the **DEL** key to delete the saved station). We can also press the **MEMORY** key again to exit the **PRESET** mode.
Station rotation function.
In **PRESET** mode Long press **SCAN** key to start the rotation of the saved radio stations, and the loop symbol will start flashing. Each station will play for 5 seconds, then the next station will be played. Press **SCAN** key again, Exit the turn-by-turn function.

To save a station manually:

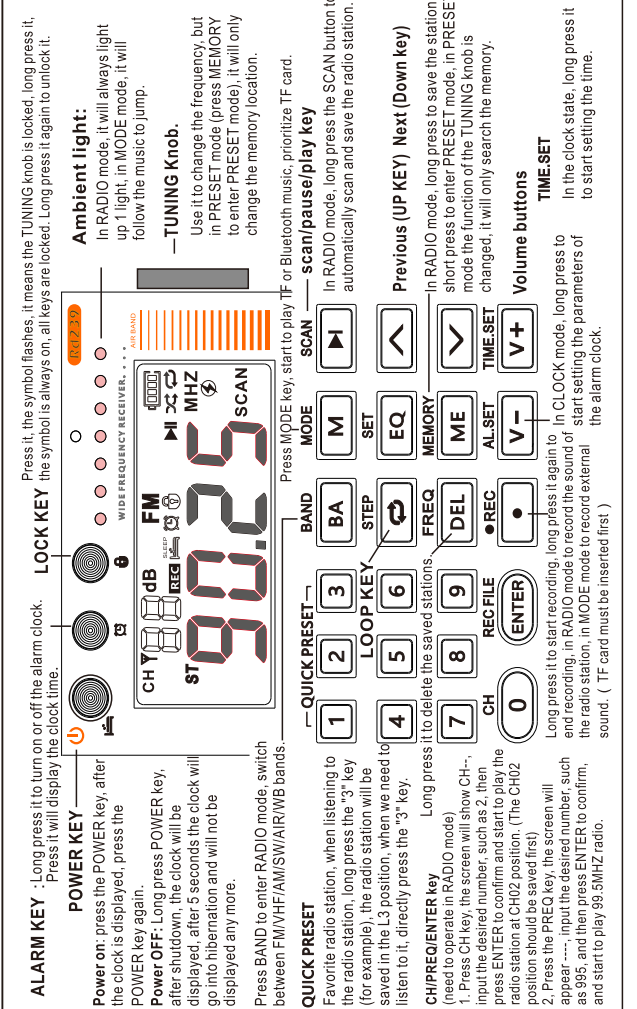
Long Press the **MEMORY** key to start saving the station, then the **PRESET** symbol flashes, select the save location (Input by up and down keys or scroll wheel), press **MEMORY** again, the station is saved.

To delete a radio station:

We must first press **MEMORY** key to enter **PRESET** mode and find the radio station to be deleted. Then press and hold the **DEL** key to hear a "drop" and the station currently playing is deleted.

STEP key:

The **STEP** key is used in conjunction with the **TUNING** key. Scroll the **TUNING** wheel, the number on the far right side of the screen will start to change and flash, then press **STEP** key, the flashing number will move to the left, scroll **TUNING**, change the value, then press **STEP** key, until it becomes the frequency we want. This method, under the VHF/SW/AIR band, can quickly find the frequency we want.



SET Radio

- SET stereo:** Under FM band, if you insert headphones, it will enter stereo mode, press **SET** key, you can turn off and on stereo.
- SET Bandwidth:** In the FM/VHF band, Long press **SET** key 2 seconds to start setting the bandwidth, then press **SET** key, you can choose between 5, 50, 150, 200KHZ. 3 seconds to exit.
Civilian walkie-talkies generally use a narrow frequency, e.g., 5KHZ. However, some devices require a wide frequency, e.g., 200K. After receiving a radio station, if it is not clear, you can try to change its bandwidth, and sometimes the radio station sounds become clearer.
- SET SQ:** In the AIR band, Long press **SET** key 2 seconds, the "ON" or "OFF" symbol will appear. Press the **SET** key again and select "ON" or "OFF" to turn on and off the SQ function, and will automatically exit and take effect after 3 seconds.
SQ: Adjust the squelch: When the radio does not receive a signal or the signal is weak, in order to avoid output noise, it will automatically cut off the output signal. This function is called squelch.
- SET keyboard backlight time:** Before turning on the computer (when the clock is displayed), Long press the **SET** key until "BL 5" appear. Press the **SET** key again. We can choose 5 seconds, 10, 15, or 20 seconds as the backlight time.

Set Time & Alarm

TIME.SET key:
Can only be set in the time state (off state), the clock cannot be set after power on. Long Press **TIME.SET** key for 2 seconds to start setting time, enter hour, then press **TIME.SET** key, enter minute, press **TIME.SET** key again, setting is finished. This machine only supports 24 small time system.

Alarm clock key:

Long press for 2 seconds to turn on or off the alarm clock.
press the **ALARM** key to display the clock and exit after 3 seconds.

Alarm clock setting:

Can only be set in the time state (off state), and cannot be set after power on. Long press **AL.SET** key for 2 seconds to start setting alarm, enter hour, press **AL.SET** key again, enter minute, press again will appear **RADO** or **bu2** symbol, we need to press up and down key to choose.

- Select **bu2**, then press **AL.SET**, the setting is complete, after the setting time reaches, the alarm symbol on the screen will flash and the "BIBI" sound will sound. "BIBI" sound will sound for 3 minutes, then sleep for 5 minutes, then sound for 3 minutes... After 5 cycles, a total of 40 minutes, the alarm will be automatically turned off. During this period, you can press the **ALARM** key to manually turn off the "BIBI" sound, the alarm symbol will no longer flash, can long press the **ALARM** key again to turn off the alarm clock, the alarm clock symbol disappears.
- select **RADO**, which means turn on the radio (the last frequency you listened to). Press **AL.SET** again, the "FULL or 10, 20... 80, 90" will appear.

FULL means start the radio. 10 means: radio sound on for 10 minutes, If we select 10, press **AL.SET** again and the setting is complete. When the alarm is on, the alarm symbol will flash, the last station listened to will be played and the radio will turn off automatically after 10 minutes. We can press **ALARM** again to exit the alarm state and the alarm symbol will stop flashing, long Press the **ALARM** key to

Enter the MODE

- Press **MODE** key to start playing TF card, then press **MODE** key again to enter the Bluetooth (BT) mode, The "BT" symbol starts to flash, indicating that it is waiting for pairing. The device name is: RD-239. Turn on the phone and select RD-239 for pairing. After the connection is successful, the "BT" symbol will no longer flash. At this time, you can use the mobile phone to play music and answer incoming calls. You can use the up and down keys to select songs, and you can use the **pause/play** key.
- In any mode, insert a TF card, it will enter the TF card playback mode, and the "TF" symbol will light up. We can press the loop key to display all loops, single loops, and random playback in turn.
- The **TF card** is not inserted or the TF card is damaged. The screen will display ERR, indicating that the TF cannot be read. If there is no TF card, the recording function cannot be started. Because the recording files need to be placed in the TF card.
EQ function:
when playing TF card or BT music, press **EQ** key, you can set 6 kinds of EQ.
EQ1=Normal; EQ2=POP; EQ3=Rock; EQ4=Jazz; EQ5=Classic; EQ6=Country.
LOOP key:
By pressing **LOOP** key, we can select, All Loop, Single Loop, Random Play, three modes.

Recording

If the TF card is not inserted or the TF card is damaged, the recording function will not start. Because the recording files need to be placed in the TF card.

Recording Radio:

In **RADIO** mode, long press **REC** key for 2 seconds, start recording radio. the **REC** symbol starts flashing, press **REC** key, pause recording, pick up **REC** key again, resume recording, to end recording, you need to long press **REC** key for 2 seconds. The recorded files will be saved according to the serial number starting from FM001, and saved in the recording folder in the TF card. If the TF card is not inserted, or the TF card is damaged, the recording function will not start.

Recording external sound (MIC)

In TF card playback mode, Long press **REC** key for 2 seconds to start **MIC** recording, long press **REC** key again for 2 seconds to end recording. The **REC** symbol will flash during recording, and we can short press the **REC** key to pause and resume recording. Recording files will be saved with serial numbers starting from MIC001. Save in the recording folder.

Recording playback function:

In TF card playback mode, long press **REC FILE** key for 2 seconds to enter the recording folder, at this time you can play the recording file, press the previous song or the next song to select the recording file, press **SCAN** key to play or pause the playback of the recording file. Long Press **REC FILE** key again to exit the recording folder.

Delete the recording file:

Long press the **REC FILE** key to enter the recording folder, scroll the **TUNING** knob to find the recording file you want to delete. Long press the **DEL** key, the **DEL** character starts flashing on the screen. Press the **DEL** key again to confirm and the deletion of the file is completed.

Use region setting:

We know different countries and regions, the frequency used will be different, this machine is applicable worldwide, need to set to local frequency, in the clock state (before power on), long press the **BAND** key, it will show 64 or 76 or 87 or 87.5, press the up and down key to select, three seconds after setting finished in and automatically exit. They represent the frequency used in different countries and regions.

87.5: China and Southeast Asia and Europe.	76: Representing Japan
FM: 87.5-108MHz	FM: 76-108MHz
AM: 522-1620KHZ(9 Stepping)	AM: 522-1620KHZ(9 Stepping)
87: The United States and the Americas	64: Representing Russia
FM: 87-108MHz	FM: 64-108MHz
AM: 520-1710KHZ(10 Stepping)	AM: 522-1620KHZ(9 Stepping)

Detailed specifications:

Frequency range	Receiving sensitivity
FM: 87 (76) -108MHz	FM \leq 8dB
AM: 520-1710kHz (US)	AM \leq 87dB
AM: 522-1610kHz (jp)	AM \leq 87dB
SW: 3. 20-29. 99MHz	SW \leq 32dB
VHF: 30. 0-200. 0MHz	VHF \leq 8dB
AIR: 118. 0-138. 0MHz	AIR \leq 7dB
WB: 162. 400-162. 550MHz	
Quiescent Current	\leq 50uA
Max Current	\leq 300mA
Loudspeaker	4 Ω /3W
Bluetooth version	VER 5. 2
Minimum operating voltage	3. 3V
TYPE-C input	5. 0V-MAX1. 5A
BL-5C Battery	1000MAH/3. 7V
AA Battery	3*1. 5V
TF card playback format	MP3 & WAV & WMA
MAX TF card capacity:	256G
Lighting power	MAX: 100 lm
Product SIZE	28*85*138MM
Net Weight	200 g

Antenna-How to use:

- Built-in magnetic rod antenna, only used for AM radio. We need to be parallel to the ground and oriented. When the electromagnetic wave direction is perpendicular to the magnetic rod, better signals can be received.
- Telescopic antenna, used in FM/VHF/SW/WB/AIR bands. When using it, we need to adjust the antenna direction and antenna length. Especially the SW/AIR band. It's not that the longer the antenna is, the better. Sometimes by shortening the antenna and changing its direction, you can receive more and clearer stations. Because the antenna needs to adapt to the direction and wavelength of electromagnetic waves.
- ANT antenna access port, using 3.5 standard port. Introducing an external antenna, only suitable for FM/VHF/SW/WB/AIR bands.

External interface:

1. TYPE-C input.

a. **TYPE-C** data cable, will only charge BL-5C batteries, it will not charge AA batteries. Please connect 5V charger, computer interface, standard USB output port, etc. Please do not connect the phone fast charger, the phone fast charger output has 9V or 12V. It may burn the machine. This machine has done this protection, but the risk still exists.

b. **TYPE-C** cable can be connected to a computer, as a computer speaker, and TF card read and write function. Only support **WINDOWS** system, this function is not stable compatibility, if you can not read the TF card, please replace the computer, and check whether the wire is a data line (inside the 4 cores, can read data), the machine distribution 4 cores data cable. Please do not use the 2-core charging cable. It only has charging function, can not read and write TF card. The cheap charging cable sold on the market, it is only 2 cores, can only be used for charging, it is not a data line, can not read TF card, can not do for the computer speaker connection.

2. 3.5 headphone jack.

3. 3.5 AUX IN input interface

4. 3.5 ANT:

external antenna input interface. Provide antenna extension for FM/SW/VHF/WB/AIR.

5. The flashlight uses a 2-speed switch, which can turn on the high beam and low beam.

Notes For attention

- Make sure to take out the batteries when the device is not used for a long time. Otherwise, the batteries may leak fluid.
- Do not use this product in an over-humid place, which may shorten its service life.
- Unauthorized dismantling or repair of this product may result in electronic breakdown or even damage, which is not within the scope of warranty repair.
- When inserting the TF card, please confirm whether the direction is correct. Do not use too much force to avoid breaking the TF card.
- When the screen displays ERR, it means that the TF card cannot be found. Please check the TF card or replace it with a new one.

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Weather Alarm

Press the **BAND** key until the WB band appears, we can press the up and down keys to listen to the 7 weather frequencies (WB signal is only available in North America), long press the **SCAN** key to scan the weather alarm signal, when a 1050KHZ alarm signal enters, the radio will start the alarm and flash the backlight to alert us of a weather anomaly. Long Press **SCAN** key again to end the weather alert function. (For use in North America only, no information will be received elsewhere.)

Trouble Shooting

Radio signals are not clear or received radio stations are few:

- Buildings of concrete structure, fluorescent lamp and electromagnetic wave interfere with radio signals.
- Try to use manual tuning in the place where signals are weak.
- While listening to AM broadcasting, to ensure broadcasting effect, place the device forward and make it be perpendicular to the ground, and AM antenna needs to keep parallel to the ground.

Failure to switch on:

When charge level in the batteries is not sufficient or elastic piece for the battery is rusted due to fluid leakage, change the batteries or Clean away the rust on the elastic place in time.

The radio turns itself off during use:

Generally, the battery power supply is insufficient, resulting in a natural shutdown, please replace the battery. You can also re-insert the battery, check the battery power, if there is still 1 cell of electricity or 2 cells of electricity, you can turn down the volume of the radio, or use headphones to listen to the radio, can also be used for a period of time, you can squeeze the last drop of energy in the battery. This is because the battery quality is not good enough to provide enough current to the radio, when the radio uses headphones, the current consumption is minimal.

The flashlight will dim after a period of use:

This is a normal phenomenon, because the new battery voltage is higher, after using a period of time, the power consumption part of the battery voltage will become lower, then it gives the electric flashlight power will become lower.

The TYPE-C interface cannot connect to the computer:

- Check the **TYPE-C** data cable first, please use the original data cable delivered, and make sure you are using a 4-core data cable instead of a 2-core charging cable.
- When the TF card cannot be read and written, please replace the computer. This machine only supports Windows system computers. Other devices may not be able to read and write the TF card in the radio, you need to take out the TF card, please use other settings to read and write the TF card.

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