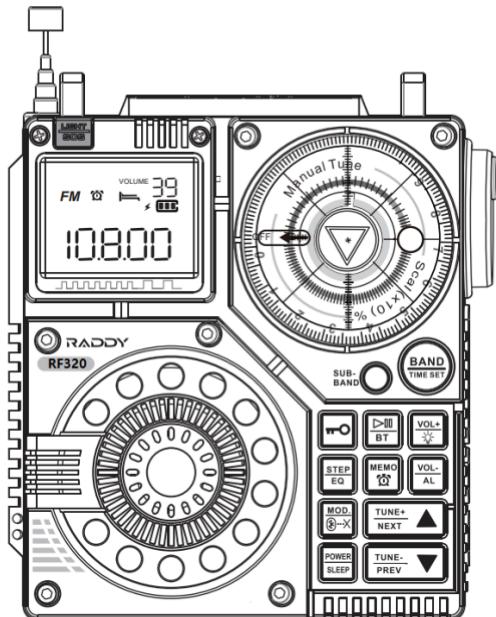


# RADDY

## RF320



Thank you for your purchasing our product.  
Please read this operation guide carefully and keep it properly before using it.

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## | 1. Product overview

RF320 is a DSP digital display multi-band radio supporting APP intelligent remote. It supports bands of AIR, FM, MW, SW, VHF, and WB, play modes of Bluetooth, TF card, and audio input as a speaker (3.5MM line-in/connection to a computer with USB data AUX-in), connection to a computer for use as a card reader, 5W high power amplifier, mega bass, flashlight, and SOS alarm. It is also an emergency product that can be carried out when playing outdoors.

With multiple functions and more interesting way of searching channels, this product support buttons search, pulley and shuttle search, rotating dial search, and digital keys selection frequency in the mobile APP. Multiple ways of searching channels give you a unique use experience.

## | 2. Introduction to product functions

**2.1.** This product realizes the multi-band reception of AIR, FM, MW, SW, VHF, and WB through software programming and has high reception sensitivity.

**2.2.** This product supports mobile APP intelligent remote control (iOS, Android and Harmony OS). Within 20m, it realizes close remote control of band switching, mode switching, frequency choosing on numeric keyboard, volume adjustment, channel choosing through frequency, locking, etc.

**2.3.** This product uses advanced audio technology to connect Bluetooth for wireless music play. It supports MP3, WMA, WAV, APE, FLAC, and TF play up to 256G.

**2.4.** This product has a dual-purpose TYPE-C jack which supports charging and connection between this product and the computer with a USB cable for an external speaker or audio input.

**2.5.** This product uses a replaceable 18650 ultra-large capacity lithium battery with long life.

**2.6.** In the reception mode, this product supports digital tuning, manual tuning, pulley search, and other searching methods.

**2.7.** Ways of searching channels of this product: full automatic channel search and automatic channel storage, manual channel storage, and automatic channel search.

**2.8.** This product designs 5 AIR meter waves, 11 SW meter waves, and 9 VHF meter waves for quick frequency switching and quick channel taking.

**2.9.** This product has 4 FM frequencies; AM frequency range changes with FM. With no limit to the national boundary, it can be used all over the world.

1) : FM:87.5-108MHZ/ AM:522-1710KHZ (Step value: 9KHZ)

2) : FM:87.0-108MHZ/ AM:520-1710KHZ (Step value: 10KHZ)

3) : FM:76.0-108MHZ/ AM:522-1710KHZ (Step value: 9KHZ)

4) : FM:64.0-108MHZ/ AM:522-1710KHZ (Step value: 9KHZ)

**2.10.** In the mode of play, this product can start the marquee and give you a wonderful musical melody.

**2.11.** This product provides a BASS effect and supports listening with earphones, satisfying the requirements of all users.

**2.12.** In the play mode of TF card, there are four ways of play for you to choose:

rA (repeat all), rO (repeat one)

rF (repeat file), rr (random)

**2.13.** This product supports the function of locking.

**2.14.** This product uses a 1.38-inch screen to display the time, battery status, signal, sleep time, and clock symbol.

**2.15.** This products uses 24-hour/12-hour system.

**2.16.** The off time for sleep can be set: 90-80-70-60-50-40-30-20-10 minutes.

**2.17.** This product can be set to start at a fixed time/alarm clock at a fixed time.

**2.18.** After selecting the scheduled boot, you can set the shutdown time after the scheduled boot: 10-20-30-40-50-60-70-80-90 & FULL (cancel automatic shutdown after boot).

**2.19.** This product has a backlight display for easy use in the dark.

**2.20.** In the reception mode, this product hasan ultra-large memory capacity to memorize 995 channels (FM/VHF/AW/SW/AIR: 199 bands).

**2.21.** This product supports six EQ sound effects:

E1: NORMAL E2: POP E3: ROCK E4: JAZZ E5: CLASSIC E6: COUNTRY

**2.22.** This product uses more TYPE-C charging jack.

### 3. Packing list

Name	Quantity
RF320 multi-band radio	1
Strap	1
18650 lithium battery, 2000mAh, 3.7V	1
TYPE-C charging cable	1
Earphones	1
Wire Antenna	1
User manual	1
APP instruction manual	1
Small screwdriver for installing battery	1
Packing box	1

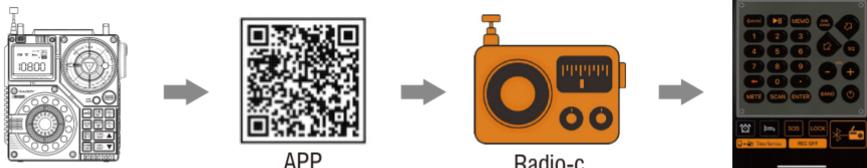
### 4. Download of mobile APP

See APP installation instructions in the attachment

**Step 1:** Turn on the radio    **Step 2:** Install the APP

**Step 3:** Successful installation on mobile

**Step 4:** Click to enter the APP



Click “RF320-BLE” to connect the mobile APP. To disconnect the APP, press “” to turn off the radio. Long press “” for 2 seconds, “BLE” appears on the screen, and now APP is disconnected.

To learn more about the functions of APP, please read the APP Instructions Manual.

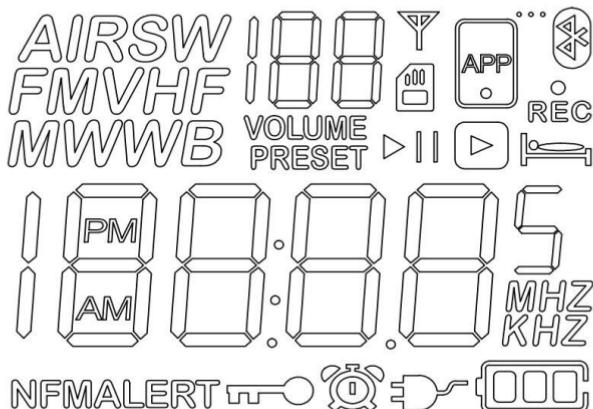
## 5. Function of buttons

	1: Power on/off 【refer to details in 7.1.1】 2: Setting sleep time 【refer to details in 7.1.2】
	1: Time display status: set L1, L2 and L3 backlight 【refer to details in 16】 2: Power-on state: volume increase.
	1: Time display status: open the alarm clock function & setting the alarm clock time 【refer to details in 11】 2: Power-on state: volume decrease.
	1: LCD off state: press for the start of backlight & time display. 2: Time display status: setting current time 【refer to details in 10】 3: Power-on state: press the button, FM/VHF/MW/SW/AIR/WB band switching. 4: In the mode of FM/VHF/MW/SW/AIR: long press for 2 seconds to enter the mode of full automatic channel search and automatic channel storage. 5: In the mode of WB: long press this button for 2 seconds to start the alarm. Before finding the alarm signal, long press it again to exit the alarm search.
	1: Time display status: long press this button for 2 seconds to adjustment of FM/MW/SW frequency range press “  ”button choose a frequency range 【refer to details in 7.3.1】 2: At power-on status, use the rotating dial to search for stations and press the SUB-BAND button to select FM/AM 【refer to detail in 7.3.2.5】 3: In the mode of WB, press this button to switch between 7 frequencies.
	1: Time display status: enter setting time mode is time+ adjustment. 2: Enter FM frequency range selection mode: switch between FM reception frequencies (include the AM 9KHZ/10KHZ step to switch). 3: Enter backlight adjustment mode: choose the light display mode. 4: On the Radio receive mode: press this button, and frequency will increase based on the min step value. Long press this button for 2 seconds to automatically search channels up. 5: On TF card play mode: press this button to play the next song, and long press it to fast forward. 6: On the play mode of Bluetooth: press this button to play the next song.

	<p>1: Time display status: enter setting time mode is time- adjustment.</p> <p>2: Enter FM frequency range selection: switch between FM reception frequencies (include the AM 9KHZ/10KHZ step to switch).</p> <p>3: Enter backlight adjustment: choose a light display mode.</p> <p>4: On the radio receives mode: press this button, and the frequency will decrease based on the min step value. Long press this button for 2 seconds to automatically search channels down.</p> <p>5: On TF card play mode: press this button to play the previous song, and long press it to fast backward.</p> <p>6: On the play mode of Bluetooth: press this button to play the previous song.</p>
	<p>1: On the radio receive mode: start the rotary shuttle channel selection.</p> <p>2: On the play mode of Bluetooth or TF card: rotary song selection.</p>
	<p>On the mode of FM/MW/SW: adjust the receiving frequency of FM/MW/SW manually.</p>
	<p>1: Time display status: press this button to start/close the alarm clock function.</p> <p>2: On the radio receive mode:</p> <p>2-1: Press this button to enter recall station mode.</p> <p>2-2: Long press it for 2 seconds to enter the manual storage station, and press it again to confirm it.</p>
	<p>1: On the radio receive mode: long press this button for 2 seconds to start/close the mute function.</p> <p>2: Switch between play modes: TF card/Bluetooth/AUX-in by 3.5mm audio cable/ connection to computer aux-in by type-c jack. Press this button to switch between the four play modes. Long press it for 2 seconds to pause/play.</p>
	<p>1: Time display status/power-on state: long press this button to start the function of the lock, and long press it for 2 seconds to unlock. And the Lock symbol is a constant state (SOS alarm and flashlight are not controlled by the lock)</p> <p>2: Time display status/power-on state: press this button to start locking the shuttle button and press it again to disable the shuttle unlock. And the Lock symbol is flashing state.</p>
	<p>1: When searching channels using the shuttle button: the frequency on the LCD flashes. Press this button to switch between step values and search channels together with the shuttle button.</p> <p>2: Power-on state: long press this button to choose the EQ effect.</p>

	1: In the mode of working: press this button to choose a working state of marquee 【refer to details in 15】 2: In the mode of VHF: long press this button to start the bandwidth setting 【refer to details in 7.3.6】 3: In the mode of AIR: long press this button to set SQ 【refer to details in 7.7】 4: In the play mode of TF card: long press this button to start the setting of play mode 【refer to details in 9.3】 5: In the play mode of Bluetooth: long press this button for 2 seconds then disconnect the Bluetooth. 6: When APP is connected: long press this button for 2 seconds to exit the APP connection after the radio is powered off.
	1: In any mode: press this button to turn on the flashlight and press it again to turn off the light. 2: In any mode: long press this button for 2 seconds to start the SOS alarm and flashing light and long press it again to cancel.
	TF card jack.
	3.5mm earphone audio output jack
	3.5mm external audio input jack
	1: Charging jack 2: Connection to the audio output jack on the computer 3: Connection to a computer with a USB cable. Use as TF card reader.

## 6. Symbols on LCD



	In the mode of reception: signal
	Address of storing a channel&address of taking a channel & EQ symbol
<b>VOLUME</b>	Volume
<b>PRESET</b>	Full automatic channel search and storage&manual channel storage&take a channel
	Battery status&charging indicator
	Unit
	Unit
	Automatic power on&clock
	Sleep time
	Lock
	Bluetooth play
	TF card play
<b>ALE</b>	WB alarm
<b>MW AIR</b>	MW AIR
<b>FM VHF</b>	FM VHF
<b>SW WB</b>	SW WB

	Pause/play
<b>AM</b>	12-hour system AM
<b>PM</b>	12-hour system PM
	Standby time: show the time Bluetooth mode: bt shows Bluetooth state Connection to computer: PC shows audio output state & TF card data download/deletion TF card mode: show the total number of songs & show the play time
	APP mode. Show the recordings.
	Successful connection between this product and mobile APP
	TF card inserted into the radio
	Marquee

## 7. Function Introduction

**7.1.1** “” power on/off: Install the battery correctly according to the positive and negative directions. Press “” to show the time and press “” again within 10 seconds to turn on the radio.

When the radio is powered on, press “” for 2 seconds to turn off the radio. Time will be shown after the radio is turned off.

Note: after 10 seconds of turning off the radio, the radio enters the mode of power saving and the backlight&time display is off. To return to check the time, press “” or press “” to turn on the backlight&time display. Before the first use, please fully charge the radio first.

**7.1.2** Set the sleep time: press “” to turn on the time display. Long press “” for 2 seconds to set the sleep time. When the sleep time is displayed, press “” to choose the minutes of automatic power off for sleep: 90-80-70-60-50-40-30-20-10. After choosing the minutes of automatic power off for sleep, “” is displayed on LCD.

## 7.2. Volume adjustment (level: 00-32)

When the radio is working, press “” or “” to adjust the volume from 00 to 32.

## 7.3. Listen to the radio

**7.3.1** The receiving ranges of this product are shown in the following table. Different countries have different requirements for FM and AW. Here are four receiving ranges. The first one is default value in factory.

No.	FM receiving range	VHF receiving range	MW receiving range	SW receiving range	AIR receiving range	WB receiving range
1	87.5-108MHZ	30-199.975MHZ	522-1710KHZ (9KHZ)	3.2-21.95MHZ	118-138MHZ	162.4-162.55MHZ
2	FM:87-108MHZ	30-199.975MHZ	520-1710KHZ (10KHZ)	3.2-32MHZ	118-138MHZ	162.4-162.55MHZ
3	FM:76-108MHZ	30-199.975MHZ	522-1710KHZ (9KHZ)	3.2-32MHZ	118-138MHZ	162.4-162.55MHZ
4	FM:64-108MHZ	30-199.975MHZ	522-1710KHZ (9KHZ)	3.2-32MHZ	118-138MHZ	162.4-162.55MHZ

The above four receiving ranges can be adjusted as required:

When the time is displayed, long press “” for 2 seconds to show the low FM frequency in current mode and press “” or “” to choose an FM receiving range. Stop operation and exit setting. The frequency chosen finally will be the default value automatically.

※For example: 87.5MHZ on LCD is the first receiving mode, and 87.0MHZ on LCD is the second receiving mode

### 7.3.2 Way of channel search:

Manual channel search/semi-automatic channel search/full automatic channel search and storage/pulley and shuttle channel search/rotating dial search.

**7.3.2.1:** Manual channel search: press “” or “”, the min step value of each band increases or decreases.

Mini step value of FM: 0.1MHZ,

Mini step value of VHF: 0.025MHZ

Mini step value of MW: 9KHZ / 10KHZ

Min step value of AIR: 0.025MHZ

Mini step value of SW: 0.005MHZ

**7.3.2.2:** Semi-automatic channel search: long press “” or “” for 2 seconds, the radio will quickly search channels based the min step value of each band, will stop search after finding a channel and play it.

7.3.2.3: Full automatic channel search and storage: In the mode of reception, long press “” for 2 seconds to automatically search and store channels from the lowest frequency to the highest frequency of current band. The channel search will stop automatically.

In the process of automatic channel search, “PRESET 01-PRESET \*\*” appears on the top right of the LCD (the number means the address of storing a channel).

After a round of searches is finished, the search will stop automatically and the program of the first frequency stored will be played.

199 channels stored in every band. 995 channels in total (except WB).

Warm prompt: the number of channels stored depends on local signal intensity.

7.3.2.4: Shuttle channel search: in the mode of reception, rotate the shuttle knob on the right of radio “” to choose a channel up and down.

Quick shuttle channel search: rotate “”, the number behind the frequency flashes for 2 seconds. When the number is flashing, press “” to switch between numbers flashing. When the number is flashing, rotate “” to quickly choose a channel up and down.

7.3.2.5: “Rotary” Rotating dial search:

Special description of rotating dial search:

Limited by the chip of this product, VHF/AIR/WB only supports rough frequency adjustment and doesn't support accurate manual channel search using the knob, which means that the step is limited and fine adjustment can only be realized in combination with TUNE +/TUNE -.

In the mode of FM/MW/SW, channels can be searched manually using the Rotating dial for searching the accurate channel.

In the mode of FM/SW, when searching channels manually using the Rotating dial, press “SUB BAND” to switch between receiving frequency ranges.

Turn on the Rotating dial.Slow rotation the []

In the mode of FM, press “SUB BAND” to choose from four receiving band ranges.

FM1:87-108MHz	FM2:76-108MHz
FM3:70-93MHz	FM4:64-88MHz

In the mode of FM, when any range is chosen, the mode of manual tuning will search in one of ranges.

When selected, the numbers 1, 2, 3, and 4 can be displayed directly above the LCD  
In the mode of SW, press “SUB BAND” to choose from 11 receiving band ranges.

SW1:3.2-4.1MHZ	SW2:4.7-5.6MHZ
SW3:5.7-6.4MHZ	SW4:6.8-7.6MHZ
SW5:9.2-10MHZ	SW6:11.4-12.2MHZ
SW7:13.5-14.3MHZ	SW8:15-15.9MHZ
SW9:17.4-17.9MHZ	SW10:18.9-19.7MHZ
SW11:21.4-21.9MHZ	

Tip: When the time is displayed, long press “SUB BAND” to set MW manual tuning range and numeric tuning range while switching between FM numeric tuning range.  
For details, please refer to 7.3.1.

There are different ranges because every potentiometer has an error, and it's difficult to realize consistency between all radios.

The frequencies beyond the range can be displayed but cannot be received.

There is a seamless connection between manual tuning and numeric tuning. When rotating the potentiometer with “Rotary◎”, it will automatically switch to manual tuning. VHF/AIR/WB doesn't support manual tuning, so it will switch to corresponding frequency after calculation with the algorithm through the potentiometer.

When switching frequencies using shuttle and buttons, it will automatically switch to numeric tuning.

### 7.3.3: In the mode of numeric tuning, switch between SW meter waves:

SW receiving frequency range: 3.2-21.95MHz

Numeric tuning: in the mode of SW, press “” to show 11 SW meter waves:  
3.20MHz, 4.75MHz, 5.60MHz, 7.35MHz, 9.90MHz, 12.10MHz,  
13.87MHz, 15.80MHz, 17.90MHz, 19.10MHz, 21.85MHz

press “” to quickly switch and choose.

### 7.3.4: Switch between VHF wavelets:

VHF receiving range: 30.00-199.975MHZ

In order to receive a channel more quickly, in the mode of VHF: there are 9 VHF wavelets. press “”, LCD shows: 30.00MHZ, 50.00MHZ, 70.00MHZ, 90.00MHZ, 110.00MHZ, 130.00MHZ, 150.00MHZ, 170.00MHZ, 190.00MHZ. press “” to quickly switch and choose.

### 7.3.5: Switch between AIR wavelets:

AIR receiving range: 118.00-138.00MHZ. In the mode of AIR: press “”, LCD shows: 118.00MHZ, 123.00MHZ, 128.00MHZ, 133.00MHZ, 138.00MHZ. press “” to quickly switch and choose.

### 7.3.6: Setting of VHF bandwidth:

In the mode of VHF, long press “” for 2 seconds to show current VHF bandwidth 5KHZ. When bandwidth is shown, press “” to choose a bandwidth from 50KHZ, 100KHZ, 150KHZ and 200KHZ. After choosing a bandwidth, the radio will exit setting of bandwidth automatically within 3 seconds and automatically confirm the bandwidth chosen finally.

Note: the factory default value of VHF-NFM is 5 KHZ.

If 50KHZ, 100KHZ, 150KHZ or 200KHZ is chosen, the radio will receive signals in the mode of VHF-WFM demodulation.

## 7.4. Method of memory a station manually

On Radio receive mode, search the target frequency using the methods in 7.3.2. Long press “” for 2 seconds to enter the mode of memory a station manually, the address of memory station number appears on LCD and “PRESET \*\*” flashes, now press “” or “” to choose an address of memory station number .after that, and press “” again for confirm .

## 7.5. Recall station

Memory stations using the methods in 7.3.2.3 and 7.4.

Press “” to enter recall the memory station. When “PRESET \*\*” is displayed, press “” “” or rotate the pulley on the right “” to choose an address number of memory station.

Note: “PRESET -- ” means no channel stored.

## 7.6. WB

press “” to switch to WB. press “” or press and long press “” or “” to choose a weather frequency.

Receiving frequencies:

1—162.400MHZ, 2—162.425MHZ, 3—162.450MHZ, 4—162.475MHZ,

5—162.500MHZ, 6—162.525MHZ, 7—162.550MHZ

Turn on the alarm: long press “” for 2 seconds to enter automatic alarm “ALE”. In the state of “ALE”, if no alarm signal is searched, long press “” again for 2 seconds to exit “ALE”. (Note: after automatic alarm search, if no button works, long press “” for 2 seconds to cancel the alarm first and then use other functions)

Turn off the alarm: after the alarm rings, press “” to turn off the alarm and exit “ALE”.

## 7.7. Start SQ function at AIR

In the mode of AIR, long press “”, “sq OFF” and “sq On” appear on LCD.

“sq OFF”: turn off SQ function

“sq ON”: turn on SQ function

Press “” to switch between the two. What you choose will be the default one.

## 8. Introduction to Bluetooth mode

Bluetooth name of this product: “RF320”.

**8.1.** When radio is powered on, press “” to switch to “bE”. Bluetooth symbol “” flashes, which means it's waiting for connection to Bluetooth. After successful connection, Bluetooth symbol “” is always on.

**8.2.** Press “” or lightly push “Shuttle||” clockwise to play the next song. Press “” or push “Shuttle||” anticlockwise to return to the previous song. Long press “” for 2 seconds to switch between pause and play, or operate the mobile to control accordingly.

**8.3.** Disconnection of Bluetooth: in the mode of Bluetooth, long press “” to disconnect Bluetooth.

## | 9: TF card play

Insert TF card according to the direction of “”, press the card to install it, and press it again to take it out.

**9.1.** In any mode, insert TF card to play TF songs by priority, and TF card icon “” appears on the screen; in any other mode, press “” to switch to TF card play; long press “” to switch between pause and play.

**9.2.** Press “” or lightly push “Shuttle[]” clockwise to play the next song. press “” or push “Shuttle[]” anticlockwise to return to the previous song. Long press “” to fast forward, and long press “” to fast backward.

**9.3.** In the play mode of TF card, ways of play can be chosen as follows:

Long press “” for two seconds, LCD shows current way of play: rA, rO, rF or rr.

When rA, rO, rF or rr is shown, press “” to choose a way of play:

rA (repeat all), rO (repeat one)

rF (repeat file), rr (random)

Max capacity of TF card: 256G

TF card supports play of MP3, WMA, WAV, APE and FLAC

Max number of files supported by TF card: 65,535

Warm prompt:

In the play mode of the TF card, in consideration of the song source downloaded, if vibrato happens, please adjust the volume.

In the mode of reception and Bluetooth, songs cannot be played after inserting a TF card, and “Err” appears on the screen. In consideration of the song source downloaded, or if the TF card is broken, please change to a normal TF card.

## | 10. Setting of Auto-on Timer

Press “” or “” show the time.

Long press “” for 2 seconds, the hour “\*\*” flashes. Press or long press “” or “” to adjust current hour.

Long press “”, the minute “\*\*” flashes. Press or long press “” or “” to adjust current minute.

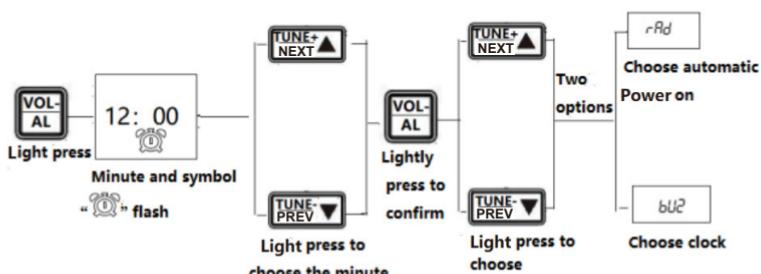
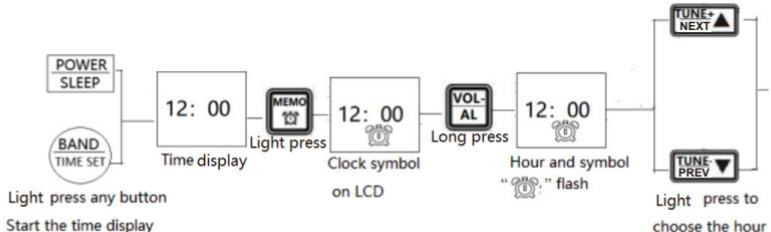
Press “” to show “24Hr” or “12Hr” time system. Press “” or “” to choose “24Hr” or “12Hr” time system.

Press “” to confirm the adjusted running time and time system.

※ Mode of time display: 12Hr system: “AM” on LCD means forenoon, and “PM” on LCD means afternoon.

## | 11. Setting of on timer and clock timer

### 11.1. On timer and clock timer of this product can be set as follows:

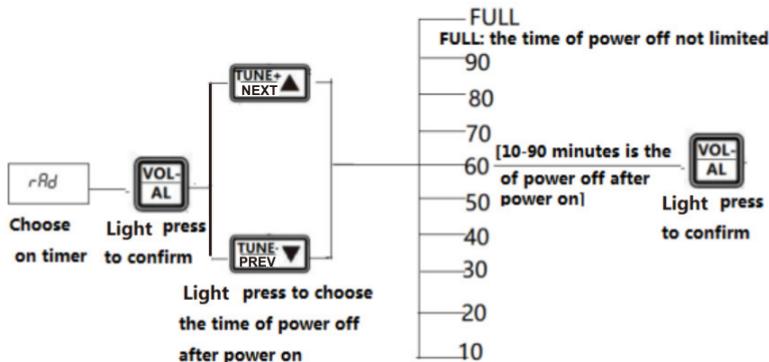


Warm prompt:

— “*rRd*” on timer: at the time of on timer, the working mode before power off will be chosen automatically. In the mode of Bluetooth, songs can only be played by clicking on Bluetooth device. If the time of on timer and off timer is chosen, turn on the radio at the set on time, the symbol “” will appear on the screen. Turn off the radio at the set off time, the symbol “” will disappear.

— “*BU2*” clock timer: at the time of clock timer, the clock symbol “” flashes, the radio makes a “beep...” for 3 minutes at interval of 5 minutes. press “” to turn off the clock, the symbol “” stops flashing. press “” again to cancel the clock, and the symbol “” disappears. When the clock rings, press “” to continue to sleep for 5 minutes. Stop the clock for a while.

**11.2.** After choosing automatic power on, the time of automatic power off can be chosen (unit: minute) as follows:



Warm prompt: “*rRd*” if on timer & off timer after on timer is chosen, the sleep symbol “” appears on LCD. At the set off time, the radio will be turned off automatically.

### **11.3. Off: on timer/clock timer**

Cancel the on timer/clock timer: in the mode of clock, press “”, the symbol “” disappears, and turn off the clock.

## | 12. Play mode selection and EQ setting

Working state, press “” to choose an EQ:

E1: NORMAL, E2: POP, E3: ROCK, E4: JAZZ

E5: CLASSIC, E6: COUNTRY.

The radio will default to adjusted current EQ with no operation within 3 seconds.

## | 13. SOS alarm and emergency lighting

**13.1.** Power of emergency function: max output power of SOS alarm: >5W; the power of flashlight: 1W.

**13.2.** Start SOS alarm: long press “” for 2 seconds to start SOS alarm. press “” to cancel SOS alarm.

**13.3.** Start flashlight: press “” to turn on LED and press “” again to turn off LED.

## | 14. Use of lock “”

**14.1.** Lock: in the mode of time and power on, long press “” for two seconds, the symbol “” appears on LCD. “” emergency function cannot be locked, but all other buttons can be locked;

**14.2.** Unlock: in the mode of time and power on, long press “” for two seconds, the symbol “” disappears on LCD, and all buttons are unlocked.

**14.3.** Exclusive shuttle lock function of this product: in the mode of time and power on, press “”, the symbol “” flashes on LCD. Now “” is locked, press “” again, the symbol “” disappears and “” is unlocked.

## | 15. Choose a working state of marquee

**15.1.** In the mode of music play (Bluetooth, TF card, AUX-IN): press “” to switch to the working state of marquee. Press “” to see three working states on LCD:  
S1: natural flash; S2: quick flash; OF: marquee is off.

**15.2.** In the mode of reception: press “” to switch to the working state of marquee.

Press “” to see four working states on LCD:

S1: natural flash; S2: quick flash; At: marquee is always on (no flash)

OF: marquee is off

## 16. Setting of the backlight of the display window/backlight of the pointer disk/decorative light (on the back of the radio)



L1 : backlight of display window



L2 : backlight of rotating dial disk

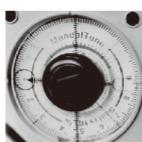
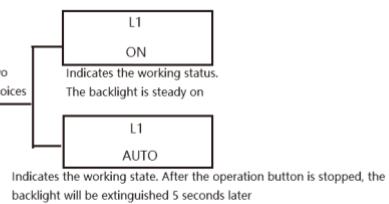
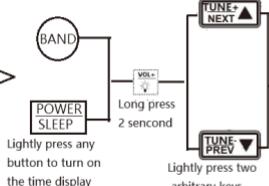


L3 : two decorative lights (on the back of radio)

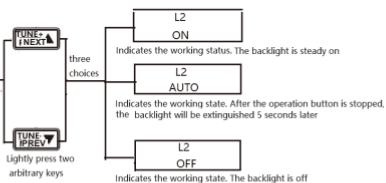
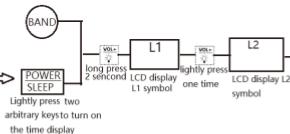
Options for above three kinds of backlight:

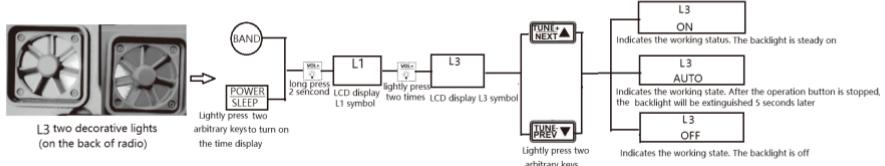


L1 Display Window



L2 Rotating dial disk





After choosing according to the above instructions, this product will default to the final mode you choose.

## | 17. TYPE-C USB: charge&computer AUX-IN function

**17.1. Charge:** DC5V/1A-DC3A charging device is recommended to charge the radio to avoid damage to lithium battery or radio.

If the radio is not in use for a long time, please charge it every month or take the battery out.

If “” flashes on the screen after inserting USB cable, it means it's charging. When the radio is fully charged, “” appears and stops flashing. The charging time is generally 4-5 hours.

**17.2. USB external audio input:** when the radio is powered on, connect it to computer with USB cable, now audio files can be input. “” appears on LCD.

## | 18. External sound source (AUX) input and play

When the radio is powered on, insert 3.5MM sound source device (e.g. mobile, computer, etc.) into AUX “” outside the radio using 3.5MM audio cable. press “” to choose the mode of “sound source input”, “LINE” appears on LCD, now this product is used as an external source source.

(Note: we don't provide the audio cable)

## | 19. Computer data transmission

Insert TF card and connect the radio to computer using our standard USB cable. press “”, the computer will automatically install the driver software. “PC” appears on LCD, which means successful connection.

Now the computer can read, copy and delete the files on TF card (use as card reader). Please note that this operation is not compatible on computers with different accessories.

## 20. Use the antenna

When receiving FM, VHF, SW, AIR and WB bands, please pull out the antenna and adjust the antenna length and search direction. You can find the best reception position.  
\*Note: If there is a strong radio interference that leads to a cross station, you can shorten the antenna.

Receive AM broadcast. This machine uses a built-in magnetic antenna to receive medium waves.

The magnetic antenna has certain directionality when it receives the signal. Therefore, when receiving a medium wave, you should rotate the direction of the machine body appropriately to find the best reception effect.

## 21. Technical parameters

Receiving range	FM: 64-108MHZ VHF: 30.000-199.975MHZ MW: 520-1710KHZ SW:3.20-21.95MHZ AIR:118-138MHZ WB:162.400-162.550MHZ
Receiving sensitivity	FM≤8dB VHF≤8dB MW≤86dB SW≤40dB AIR≤8dB

Quiescent current	10uA
Max current	720mA
Speaker	Φ52mm 4Ω 5W
Signal to Noise Ratio	FM/VHF: 48dB MW:30dB SW:40dB AIR:48dB
Number of channels stored	955
Bluetooth version	VER 5.0
Bluetooth receiving distance	≤20m
Min working voltage	3.4V
External input voltage	DC 5V
Lithium battery	18650, 2000mAh, 3.7V
Play format of TF card	Support play formats of MP3, WMA, WAV, APE and FLAC
Max capacity of TF card	256G
Product size	101.7x52x118.5mm
Net weight	359g

## 22. Cautions

To use this product, please abide by the following safety instructions and ensure safe and reliable use of product.

- ◆ Read and understand all safety guidelines and use information.
- ◆ When the symbol “” appears or the frame of the symbol flashes, the battery is low. Please charge the radio to ensure normal use.
- ◆ DC5V/1A-DC3A charging device is recommended for use to avoid damage to lithium battery or radio.
- ◆ If the radio is not in use for a long time, please charge it every month or take the battery out.
- ◆ Keep this product away from rain or damp. No liquid is permitted to be dropped on or dampness on the radio.
- ◆ Keep this product away from high temperature heat source. Do not heat or dry the radio at high temperature.
- ◆ Do not leave this product in direct sunlight.
- ◆ Drop, violent collision and heavy load on the radio are not permitted.

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