

**High-performance All-band Radio  
Bluetooth • TF Card • AUX-in Play  
Flashlight • SOS Alarm • APP Intelligent  
Remote Control  
Instructions for Use  
(Model: HRD-A320)**



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Thanks for buying our product. Before use, please carefully read this Instructions for Use and keep it properly.

## **1: Product overview**

Our company is aimed to develop new products, adhere to continuous innovation and satisfy the requirements of users. HRD-A320 is a DSP digital display multi-band radio supporting APP intelligent remote developed by our company with all efforts. It supports bands of AIR, FM, MW, SW, VHF and WB, play modes of Bluetooth, TF card and audio input as speaker (3.5MM line-in/connection to computer with USB data AUX-in), connection to computer for use as card reader, 5W high power amplifier, mega bass, flashlight and SOS alarm. HRD-A320 is an emergency product for both indoor and outdoor use. With multiple functions and more interesting way of searching channels, this product supports key tuning, pulley and shuttle search, and manual pointer search. Multiple ways of searching channels give you unique use experience.

## **2: Introduction to product functions**

2.1: This product realizes 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 con

-trol (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, giving users a new use experience.

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 supports connection between this product and computer with USB cable for use as external speaker of audio input.

2.5: This product uses 18650 ultra-large capacity lithium battery with long life. The battery can be removed. Longer product life.

2.6: In the mode of reception, this product supports digital tuning, manual tuning, pulley search and other ways of search, giving users more fun of use.

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 of 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 wonderful music melody.

2.11: This product provides BASS effect and supports listening with earphone, 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 lock.

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: On timer and clock timer can be set.

2.18: After choosing the on timer, the off time after power on can be set: 10-20-30-40-50-60-70-80-90 & FULL (automatic

power off after power on cancel)

2.19: The backlight can be used in the dark.

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

2.21: In the play mode of Bluetooth or TF card, 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 user-friendly TYPE-C charging jack.

### 3: Packing list

Name	Quantity
HRD-A320 high-performance all-band radio	1
Strap	1
18650 lithium battery, 2,000mah 3.7V	1
USB TYPE-C charging cable	1
Instructions for Use	1
Small screwdriver	1
Packing box	1

## 4: Download of mobile APP (see the APP installation on reference appendix)

Step 1: Turn on the radio



Step 2: Install the APP



APP



Step 3: Successful installation on mobile



Radio-c





Step 4: Click to enter the APP









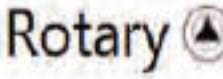





Click “HRD-A320-BLE” to connect the APP. To disconnect the APP, lightly press “” to turn off the radio and show the time. Long press “” for 2 seconds, “bLE” appears on the screen, and now APP is disconnected.


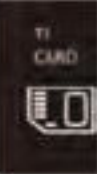



To learn more about the functions of APP, please the APP Instructions for Use.

## 5: Function of buttons

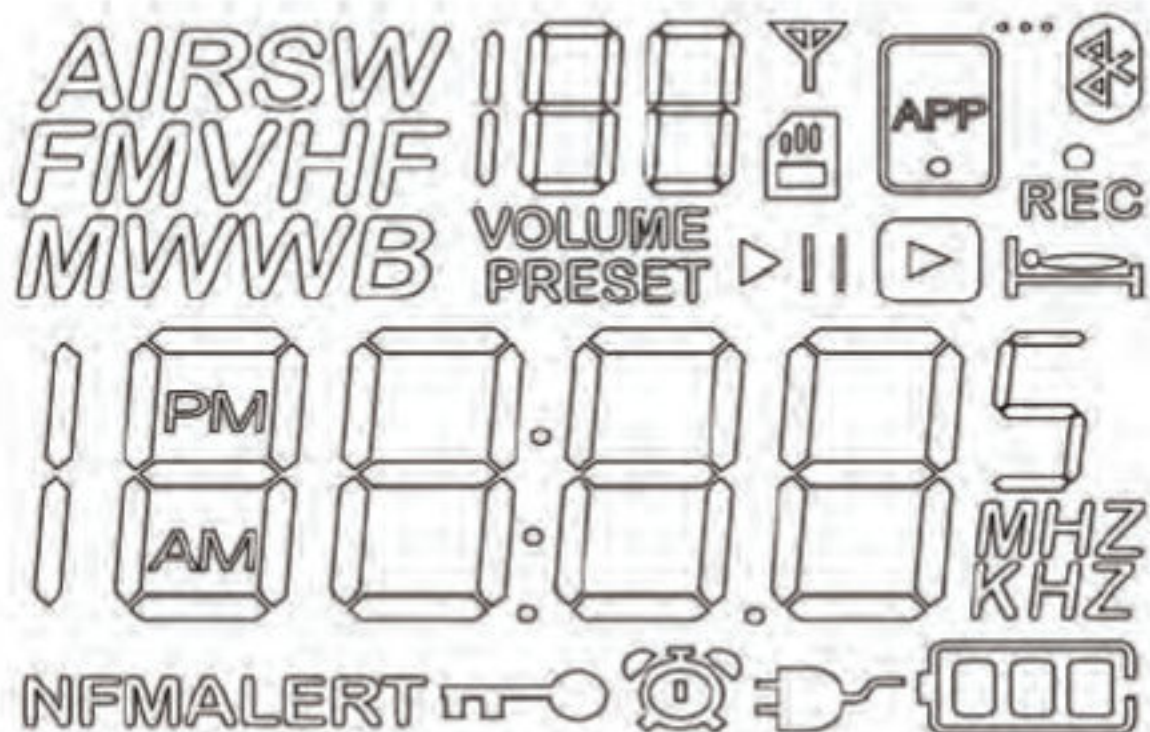
	<ol style="list-style-type: none"> <li>1: Power on/off 【refer to details in Article 7.1.1】</li> <li>2: Set the off time for sleep 【refer to details in 7.1.2】</li> </ol>
	<ol style="list-style-type: none"> <li>1: When the time is shown: set L1, L2 and L3backlight 【refer to details inArticle 16】</li> <li>2: When the radio is powered on: light press&amp;long press for volume increase</li> </ol>
	<ol style="list-style-type: none"> <li>1: When the time is shown: long press&amp;light press for start of on timer&amp; setting of clock timer 【refer to details in Article 11】</li> <li>2: When the radio is powered on:light press&amp;long press for volume decrease</li> </ol>
	<ol style="list-style-type: none"> <li>1: When the screen is off: light press for start of backlight &amp; time display</li> <li>2: When the time is shown: long press&amp;light press for start of running time setting 【refer to details in Article 10】</li> <li>3: When the radio is powered on: light press for switching between FM/VHF/MW/SW/AIR/WB</li> <li>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</li> <li>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 alarm search.</li> </ol>









	<p>1: When the time is shown: long press this button for 2 seconds to start manual adjustment of FM/MW/SW frequency range and lightly press “ ” to choose a frequency 【 refer to details in Article 7.3.2.5 】</p> <p>2: In the mode of WB, lightly press this button to switch between 7 frequencies</p> <p>3: Correct frequencies cannot be adjusted manually in the mode of VHF/AIR/WB. Every time lightly press this button to switch to corresponding meter frequency after calculation with algorithm through potentiometer.</p>
	<p>1: When time is shown: light press&amp;long press for  Time adjustment: time+  FM frequency selection: switch between FM reception frequencies, switch between AM.9KHZ/10KHZ accordingly  Backlight adjustment: choose a light display mode</p> <p>2: In the mode of reception: lightly press this button, frequency will increase based on the min value. Long press this button for 2 seconds to automatically search channels up.</p> <p>3: In the play mode of TF card: lightly press this button to play the next song, and long press it to fast forward.</p> <p>4: In the play mode of Bluetooth: lightly press this button to play the next song.</p>
	<p>1: When time is shown: light press&amp;long press for  Time adjustment: time -  FM frequency selection: switch between FM reception frequencies, switch between AM.9KHZ/10KHZ accordingly  Backlight adjustment: choose a light display mode</p> <p>2: In the mode of reception: lightly press this button, frequency will decrease based on the min step value. Long press this button for 2 seconds to automatically search channels down.</p> <p>3: In the play mode of TF card: lightly press this button to play the previous song, and long press it to fast backward.</p> <p>4: In the play mode of Bluetooth: lightly press this button to play the previous song.</p>






	<p>1: In the mode of reception: start the rotary shuttle channel selection.</p> <p>2: In the play mode of Bluetooth or TF card: rotary song selection.</p>
	<p>In the mode of FM/MW/SW: adjust the receiving frequency of FM/MW/SW manually.</p>
	<p>1: When the time is shown: lightly press this button to start/close the timer function.</p> <p>2: In the mode of reception: lightly press this button to take a channel. Long press it for 2 seconds to store a channel manually. Lightly press it again to confirm a channel is stored successfully.</p>
	<p>1: In the mode of reception: long press this button for 2 seconds to start/close the mute function.</p> <p>2: Switch between play modes: TF card/Bluetooth/3.5MM audio cable-AUX in/connection to computer AUX-in. Lightly press this button to switch between the four play modes.</p> <p>3: Long press it for 2 seconds to pause/play.</p>
	<p>1: When the time is shown/the radio is powered on: long press this button to start the function of lock, and long press it for 2 seconds to unlock. (SOS alarm and flashlight are not controlled by the lock)</p> <p>2: When the time is shown/the radio is powered on: lightly press this button to start the shuttle lock and lightly press it again to disable the shuttle lock.</p>
	<p>1: When searching channels using the shuttle button: the frequency on LCD flashes. Lightly press this button to switch between step values and search channels together with the shuttle button.</p> <p>2: Play mode: lightly press this button to choose an EQ.</p>
	<p>1: In the mode of working: lightly press this button to choose a working state of marquee <b>【refer to details in Article 15】</b> .</p> <p>2: In the mode of VHF: long press this button to the start the bandwidth setting <b>【refer to details in Article 7.3.6】</b> .</p> <p>3: In the mode of AIR: long press this button to set SQ <b>【refer to details in Article 7.7】</b> .</p> <p>4: In the play mode of TF card: long press this button to start the setting of play mode <b>【refer to details in Article 9.3】</b> .</p> <p>5: In the play mode of Bluetooth: long press this button for 2 seconds the disconnect the Bluetooth.</p> <p>6: When APP is connected: long press this button for 2 seconds to exit APP connection after the radio is powered off.</p>

	<p>1: In any mode: lightly press this button to turn on the flashlight and lightly press it again to turn off the light.</p> <p>2: In any mode: long press this button for 2 seconds to start SOS alarm and flashing light and long press it again to cancel.</p>
	<p>TF card jack.</p>
	<p>3.5MM earphone audio output jack</p>
	<p>3.5mm external audio input jack</p>
	<p>1: Charging jack</p> <p>2: Connection to the audio output jack on computer</p> <p>3: Connection to computer with USB cable. Use as TF card reader.</p>



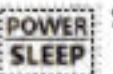
## 6: Symbols on LCD






	In the mode of reception: signal.
	Address of storing a channel & address of taking a channel & EQ symbol
VOLUME	Volume
PRESET	Full automatic channel search and storage & Manual channel storage & channel
	Battery status & charging indicator
KHZ	Unit
MHZ	Unit
	Automatic power on & clock
	Sleep time
	Lock
	Bluetoothplay
	TF card play
ALE	WB alarm
MW AIR FM VHF SW WB	MW AIR FM VHF SW WB
▷	Pause/play
AM	12-hour system AM
PM	12-hour system PM





	<p>Standby time: show the time</p> <p>Bluetoothmode:bt shows Bluetooth state</p> <p>Connection to computer: PC shows audio output state &amp; TF card date download/deletion</p> <p>TF card mode: show the total number of songs &amp; show the play time</p>
	<p>APP mode. Show the recordings.</p>
	<p>Successful connection between this product and mobile APP</p>
	<p>TF card inserted into the radio</p>
	<p>Marquee</p>

## 7: Functions of symbols

7.1.1 “” power on/off: this product has built-in lithium battery. Lightly press “” to show the time and lightly press “” again within 10 seconds to turn on the radio.

When the radio is powered on, lightly 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, lightly press “” or lightly 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: lightly press “” to turn on the backlight&time display. Long press “” for 2 seconds to set the sleep time. When the sleep time is displayed, lightly 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, lightly press or long 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 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, and knob channel search.


7.3.2.1: Manual channel search: lightly press “


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 “

7.3.2.3: Full automatic channel search and storage: In the mode of reception, long press “

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automatically search and store channels from the lowest frequency to the highest frequency of current band. Channel search will stop automatically.


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

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

Number of channels stored of every band: 199, 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 “ Shuttle|] ” to choose a channel up and down.

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

7.3.2.5: “ Rotary  ” Manual knob channel search

Special description of manual channel 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 knob.

In the mode of FM/SW, when searching channels manually using the knob, lightly press "SUB BAND" to switch between receiving frequency ranges.

In the mode of FM, lightly 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.


In the mode of SW, lightly 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	

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

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 Article 7.3.1.

There are different ranges because every potentiometer has an error, 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 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, lightly press “SUB-BAND ” 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, 21.85MH Lightly press “SUB-BAND” 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. Lightly press “SUB-BAND”, LCD shows: 30.00MHZ, 50.00MHZ, 70.00MHZ, 90.00MHZ, 110.00MHZ, 130.00MHZ, 150.00MHZ, 170.00MHZ, 190.00MHZ. Lightly press “SUB-BAND” to quickly switch and choose.

7.3.5: Switch between AIR wavelets:

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





7.3.6: Setting of VHF bandwidth:



In the mode of VHF, long press “MOD” for 2 seconds to show current VHF bandwidth 5KHZ. When bandwidth is shown, lightly press “MOD” 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.


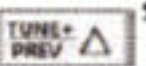


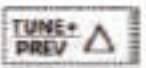

If 50KHZ, 100KHZ, 150KHZ or 200KHZ is chosen, the radio will receive signals in the mode of VHF-WFM demodulation.

#### 7.4: Method of storing a channel manually

In the mode of reception, search the target frequency using the methods in Article 7.3.2. Long press “”  $\text{\textcircled{^}}\text{\textcircled{v}}$  2 seconds to enter the mode of channel storage, the address of storing a channel appears on LCD and “PRESET \*\*” flashes, now lightly press “” or “” to choose an address of storing a channel and press “” again to confirm. The address of storing a channel is off, now manual channel storage is finished.

Note: if a target frequency is chosen, long press “” for 2 seconds to store a channel and lightly press “” to confirm a channel is stored. Channels can be stored like this according to the sequence of addresses.

#### 7.5: Take a channel

Store a channel using the methods in Article 7.3.2.3 and 7.4. Lightly press “” to take a channel. When “PRESET \*\*” is displayed, lightly press “” or “” or rotate the pulley on the right “Rotary ” to choose an address of taking a channel. Change a channel every time lightly press “” or “”, and “PRESET00-PRESET \*\*” appears (“01-\*\*” is the address of taking a channel).

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




#### 7.6: WB:

Lightly press “” to switch to WB. Lightly press “” or lightly 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 auto-  
matic 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, lightly 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

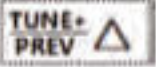
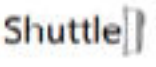


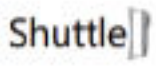
“sq On”: turn on SQ function


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

## 8: Introduction to Bluetooth mode


Bluetooth name of this product: “HRD-A320”.




8.1. When radio is powered on, lightly 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. Lightly press “” or lightly push “” clockwise to play the next song. Lightly press “” or push “” 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 “”, lightly press

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, lightly press “” to switch to TF card play; long press “” to switch between pause and play. the card to install it, and lightly press it again to take it out.

9.2. Lightly press “” or lightly push “” clockwise to play the next song. Lightly press “” or push “” anti

-clockwise 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, lightly 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

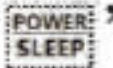

Warm prompt:


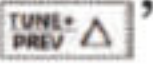
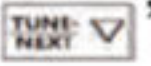
In the play mode of TF card, in consideration of song source downloaded, if vibrato happens, please adjust the volume.

In the mode of reception and Bluetooth, songs cannot be played after inserting TF card and “Err” appears on the screen.


In consideration of song source downloaded, or if TF card is broken, please change a normal TF card.

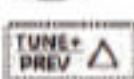
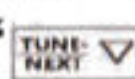
## 10: Setting of running time


Lightly press “” or “” show the time.

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

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

Lightly press “” to show “24Hr” or “12Hr” time system.

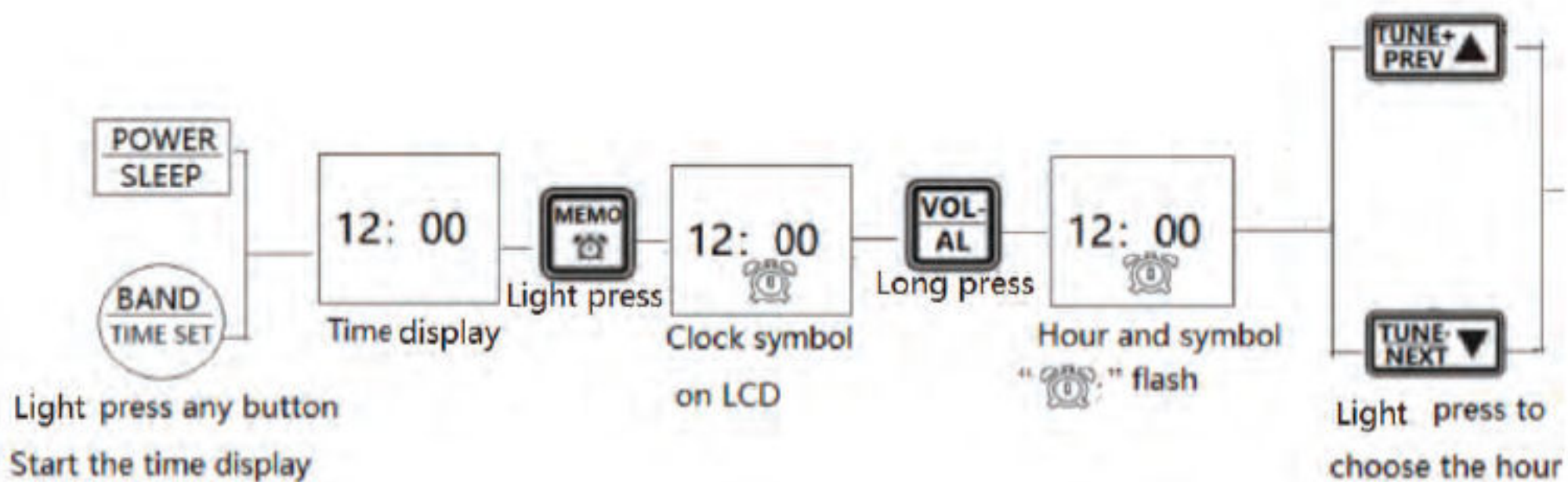
Lightly press “” or “” to choose “24Hr” or “12Hr” time system.

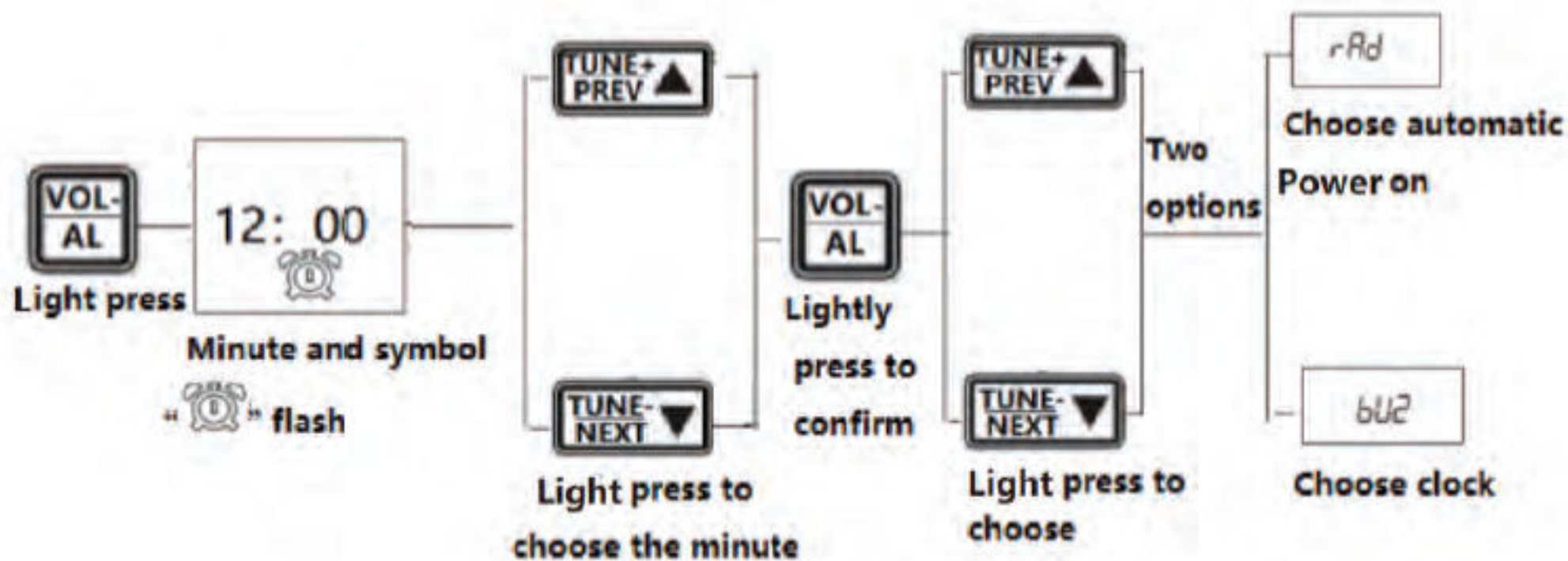
Lightly press “” to confirm the adjusted running time and time system.

※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:



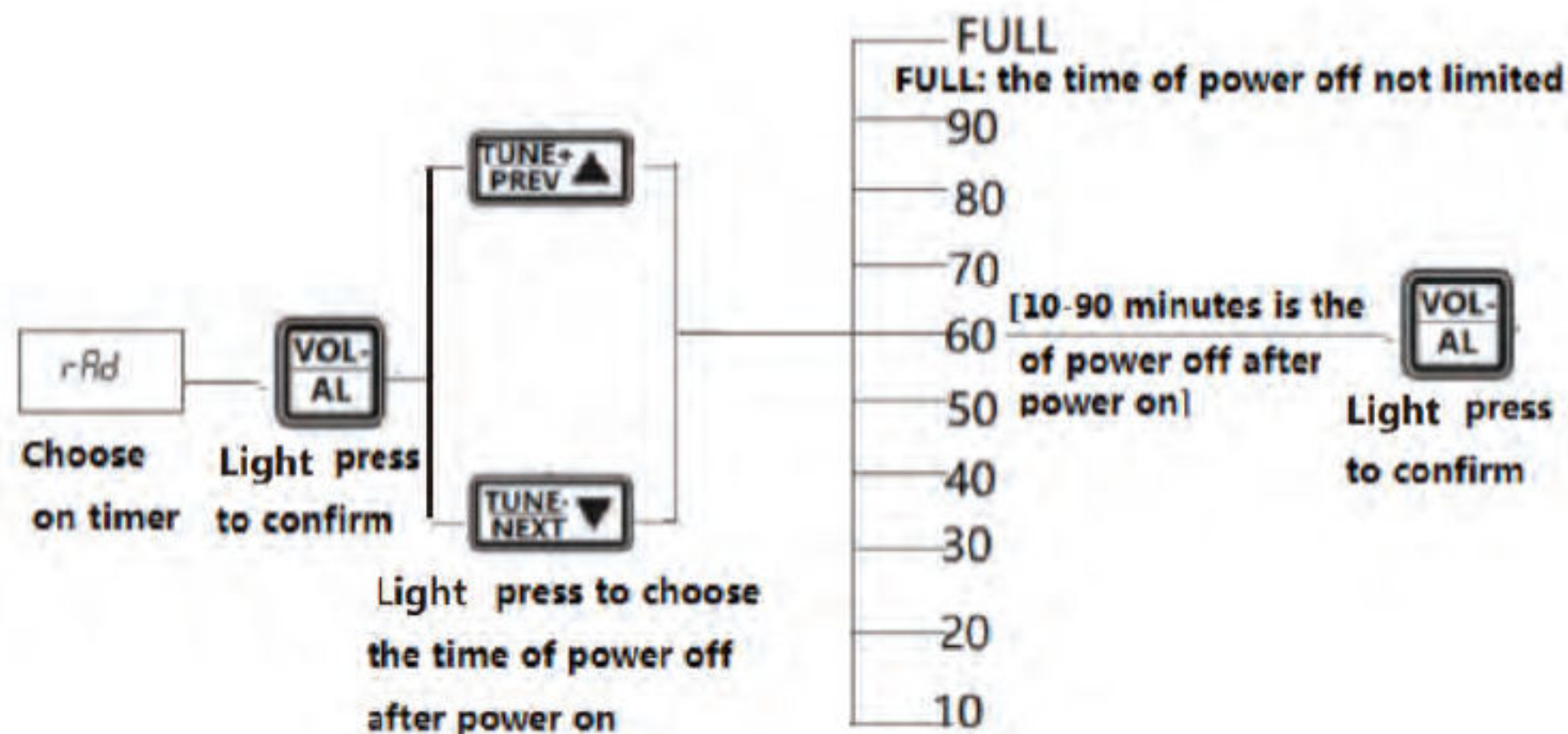



Warm prompt:

— “*rAd*” 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. Lightly press “” to turn off the clock, the symbol “” stops flashing. Lightly press “” again to cancel the clock, and the symbol “” disappears. When the clock rings, lightly 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: “*rAd*” 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


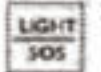
Cancel the on timer/clock timer: in the mode of clock, lightly press “”, the symbol “” disappears, and turn off the clock.



## 12: Play mode selection and EQ setting

In the mode of music play, lightly 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. Lightly press “” to cancel SOS alarm.

13.3: Start flashlight: lightly press “” to turn on LED and lightly 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, lightly press “”, the symbol “” flashes on LCD. Now “Shuttle” is locked, lightly press “” again, the symbol “” disappears and “Shuttle” is unlocked.



## 15: Choose a working state of marquee

15.1: In the mode of music play (Bluetooth, TF card, AUX-IN): lightly press “” to switch to the working state of marquee. Lightly 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: lightly press “” to switch to the working state of marquee. Lightly 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 backlight of display window/ backlight of pointer disk/decorative light (on the back of radio)



L1: backlight of  
display window



L2: backlight  
of pointer disk



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

Options for above three kinds of backlight:

16.1: L1: backlight can be always on. It will be off automatically after 5 seconds. The operation is shown as follows:

When the time is shown, long press “VOL+” for 2 seconds, the symbol “L1 ON” or “L1 AUTO” appears on LCD. Lightly press “TUNE+ PREV Δ” or “TUNE- NEXT ▽” to choose from the two modes.

“L1 ON” means L1 backlight is always on when the radio is powered on;

“L1 AUTO” means L1 backlight will be off automatically with no operation in 5 seconds when the radio is powered on.

16.2: L2 :backlight can be always on. It will be off automatically after 5 seconds. The operation is shown as follows:

When the time is shown, long press “VOL+” for 2 seconds, “L1” appears on LCD. Lightly press “VOL+” for the second time, the



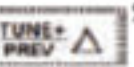
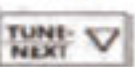
symbol “<sup>L2</sup> ON”, “<sup>L2</sup> <sub>AUE0</sub>” or “<sup>L2</sup> OFF” appears on LCD. Lightly press “” or “” to choose from the three modes.

“<sup>L2</sup> ON” means L2 backlight is always on in the mode of reception;

“<sup>L2</sup> <sub>AUE0</sub>” means L2 backlight will be off automatically with no operation in 5 seconds the mode of reception;

“<sup>L2</sup> OFF” means L2 backlight is turned off in the mode of reception.

16.3: L3: backlight can be always on. It will be off automatically after 5 seconds. The operation is shown as follows:

Long press “” for 2 seconds, “L1” appears on LCD. Lightly press “” twice, the symbol “<sup>L3</sup> ON”, “<sup>L3</sup> <sub>AUE0</sub>” or “<sup>L3</sup> OFF” appears on LCD. Lightly press “” or “” to choose from the three modes.

“<sup>L3</sup> ON” means L3 backlight is always on in the mode of reception;

“<sup>L3</sup> <sub>AUE0</sub>” means L3 backlight will be off automatically with no operation in 5 seconds the mode of reception;



“<sup>L3</sup> OFF” means L3 backlight is turned off in the mode of reception.


After choosing according to above instructions, this product

## **17: TYPE-C USB: charge&computer**


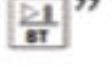
### **AUX-IN function**

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. Lightly 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. Lightly 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:

Before listening to FM, VHF, SW, AIR and WB, pull out the antenna and change its length and direction to find the best position of receiving.

\*Note: in case of channels disorder due to strong interference, shorten the antenna.

Listen to MW

The radio uses a built-in magnetic antenna to receive MW. The magnetic antenna will be affected by direction when receiving signals, so when listening to MW, you can rotate the radio to find the best position of receiving.

## 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-
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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	995
Bluetooth version	VER 5.0
Bluetooth receiving distance	≤20 m
Min working voltage	3.4V
External input voltage	DC.5v
Lithium battery	18650 2000mAh 3.7v ,
Play format of TFcard	Support play formats of MP3 , WMA, WAV, APE and FLAC
Max capacity of TF card	256G
Product size	101.7x52x118.5mm
Net weight	359 g

## 22: Precautions

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 splashed 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.

**FCC Warning:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution:** Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.