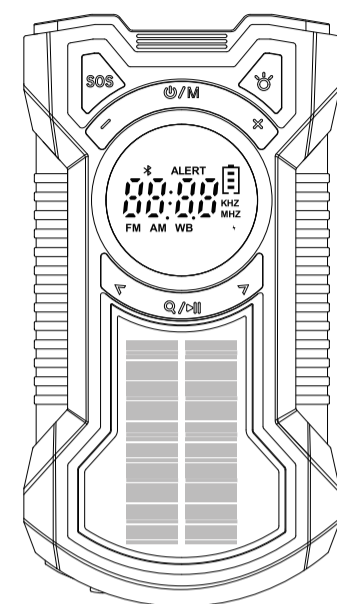
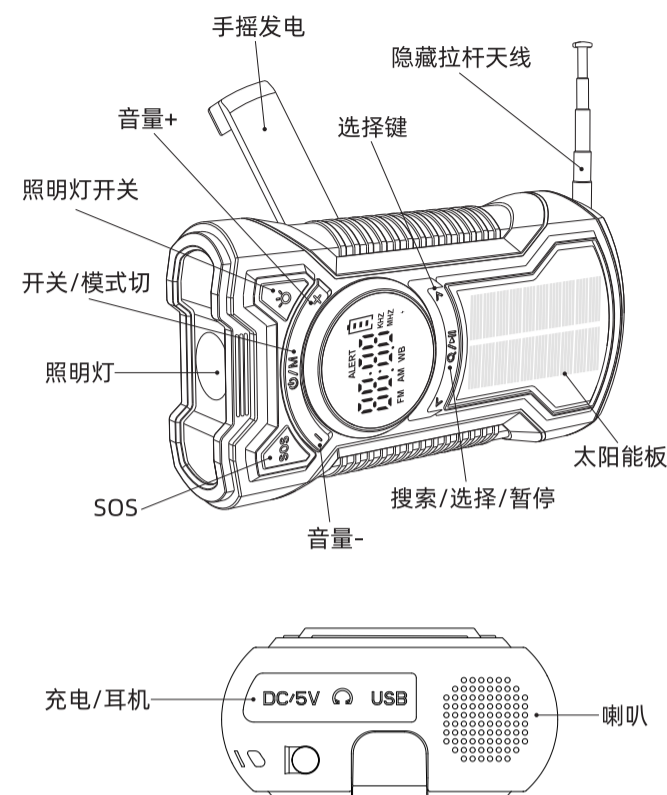


EM03使用说明书



本产品为多波段充电式收音机，可收听FM/AM/WB天气频道，收音机内置手摇发电机、太阳能电池板、充电池及带警报、阅读灯、电筒灯功能。可应急外接手机充电，适宜野外，旅行，不受外界环境停电影响，随时都可使您的手机有足够的电量，与外界保持联系。详细使用方法，请阅读说明书以下内容。

一. 外观及功能指示



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二. 技术指标

频率范围	AM: 520—1710KHz
	FM: 87—108MHz
	WB: 162.400-162.550 MHz
电源	充电池: 聚合物3.7V 5000mAh
	太阳能板输出: 5V 45mA
	手摇发电输出: 5V 300mA
	USB充电输出: 5V 2A
LED灯	远光灯:3W
	近光灯:0.48W
收音机输出最大功率	1.9W
喇叭	Φ27mm 8Ω 3W
外接耳机	Φ3.5mm
产品尺寸	144 mm×77mm×39.6mm
产品重量	约310g

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三. 使用方法

1. 开关机

长按“@/M”三秒开机，开机后短按“@/M”切换模式。

各种模式下功能使用:

2. FM\AM模式

可以三种方式调整所需频率

- A 短按“<<”“>>”以最小步进调整频率。
 B 长按“<<”“>>”可快速向上或向下自动搜索，搜索到有信号频道会自动停止并播放。
 C 长按“Q/♪”频点会从最低点开始快速扫描搜索，依次保存有信号的频道（P1、P2、P3...最多保存100个），搜索完毕后自动播放第一个存储的频率P1，每一次操作，将会覆盖以前存入的电台，如果没有存入有信号电台，屏幕显示“-”符号。
 自动搜索完毕后，每短按一次“Q/♪”键，取台号从“P1”按顺序递增变化，选取你所需收听的电台节目。也可以在轻按“Q/♪”键后，频率数字闪烁时按选台“<<”“>>”选择取台号。

关机状态，同时长按“<<”“>>”两个键，可以切换AM的9K, 10K步进值。

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3. WB模式

短按“<<”“>>”会上或向下调整一个频道分别为：
 CH-1 (162.400MHZ) ,CH-2 (162.425MHZ) ,
 CH-3 (162.450MHZ) ,CH-4 (162.475MHZ) ,
 CH-5 (162.500MHZ) ,CH-6 (162.525MHZ) ,
 CH-7 (162.550MHZ)。
 长按“Q/♪”键进入自动预警ALERT（启动NOAA时报警响起，红灯闪烁），在自动预警状态下，再按“@/M”退出自动预警ALERT。

4. 蓝牙模式

短按“<<”“>>”播放上一首或下一首歌曲，短按“Q/♪”暂停播放。

5. 音量调整

短按“+”“-”调整音量，音量调整范围为0-27级

6. SOS警报

短按一次“SOS”键，喇叭发出警报声，并伴随闪烁的红灯，再次短按一次则关闭警报功能。

7. 照明使用

短按一次“☼”开关，远光灯打开，再次短按则关闭远光灯；长按“☼”开关，近光灯打开，再次长按则关闭近光灯；通过短按和长按可以同时打开或关闭远光灯和近光灯。

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8. 耳机收听

为保护您的听力，请将收音机音量调至最小，然后把Φ3.5mm耳机插头插入耳机插孔，再慢慢调节音量至合适大小收听。此时，外放扬声器自动断开。

9. 充电功能

向收音机内置充电池充电可用外接直流电源充电、手摇充电、太阳能充电三种充电方式。

① 外接电源充电：当电量指示灯显示电量不足时，使用DC 5V/1A-2A插头插入外接电源插口即可充电。

② 手摇充电：一手握机身，另一手转动手摇发电机，保持一致方向及稳定的速度，以120转/分钟的转速，手摇充电指示灯亮，即可向机内充电池应急充电，手摇发电机可顺时针亦可逆时针转动充电，请注意，切勿急转下用力制停及骤然往另一方向转动，这样会严重损坏手摇发电机。手摇1分钟，在FM波段2/3音量下可播放约8分钟；手摇1分钟，可以点亮LED灯25-30分钟；

③ 太阳能充电：将机身太阳能板部份置于充足阳光下，即可向机内充电池应急充电，同时充电指示灯会亮，太阳能充电主要用于维护电池，延长电池寿命，同时应急状态下短时间使用。

④ 给手机充电：将手机充电连接线插头一端插入‘USB-A’插孔，另一端插头插入手机充电插孔即可。注意：收音机电池应保持足够的电量才可以对手机充电。

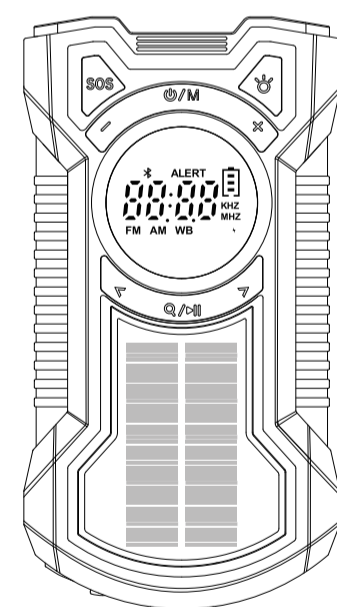
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四注意事项

- 避免受到猛烈撞击，或跌落地面，请勿浸泡到水里面，避免水进入到机器内部。
- 本机内置锂电池，锂电池请勿私自拆卸，以免短路。不使用时请每隔3个月给电池充电一次，以保证电池寿命。
- 本机使用时，如有音量变小及伴有失真，很可能为充电池电量不足，此时请充电。
- 使用手摇发电机充电时，请持续保持稳定速度定向摇动，勿于高速转动中强制停止，或转动时突然反转，会严重损坏发电机，缩短发电机寿命。
- 本公司产品是利用精密仪器调试好各项指标后出厂的，请勿拆开机器调整内部元件。
- 要清洁机壳时，请用软布沾上洗涤剂溶液擦拭。勿用酒精，稀释剂等强列的溶剂清洗。

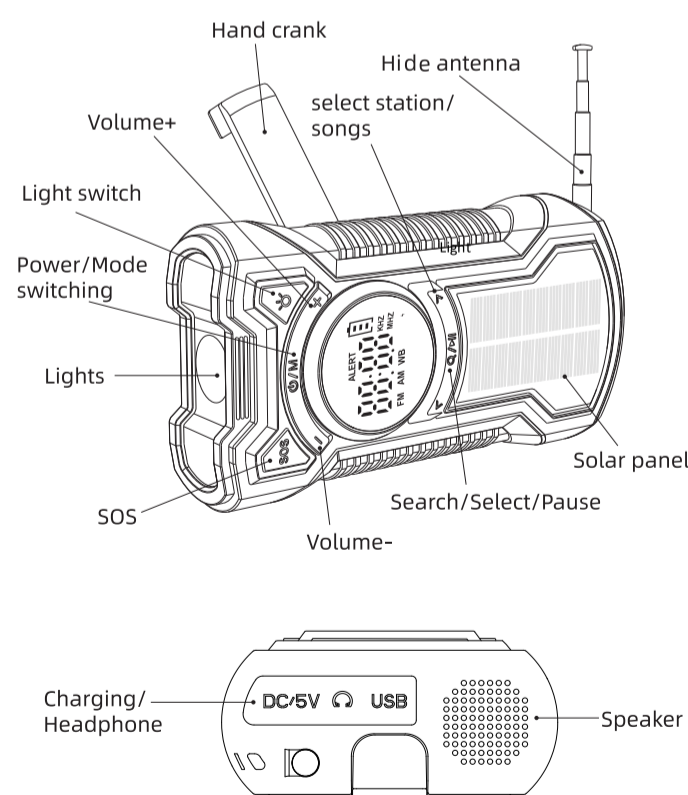
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EM03 USER MANUAL



This product is a multi-band rechargeable radio, can listen to FM/AM/WB weather channels, the radio built-in hand-crank generator, solar panel, rechargeable batteries, it also has the functions of SOS alarm, reading light, flashlight, Bluetooth. It equipped with 5000mAh rechargeable battery to charge cellphone at any time, it can make your cellphone has enough power to keep in touch with the outside world, suitable for the outdoors, travel... For detailed instructions, please read the following contents.

Appearance and buttons indication



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Technical Index

Frequency range	AM: 520—1710KHz
	FM: 87—108MHz
	WB: 162.400-162.550 MHz
Power	Battery: Lithium polymer batteries 3.7V 5000mAh
	Solar panel output: 5V 45mA
	Hand crank output: 5V 300mA
	USB charging output: 5V 2A
LED lights	Far beam: 3W
	Dipped beam: 0.48W
Radio output Max.power	1.9W
Speaker	Φ27mm 8Ω 3W
Headphone	Φ3.5mm
Product size	144 mm×77mm×39.6mm
Product weight	约310g

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Using instructions

1. Power on / off

Long press “@/M” 3 seconds to turn on/off the radio, in power on state, short press “@/M” to switch modes.

2. FM\AM Radio Mode

The radio has 3 ways for searching am/fm stations
In power on state:

- A Short press “<<” “>>” ,the frequency point will increase or decrease by minimum step value.
 B Long press “<<” “>>” ,the radio will enter into automatic searching, the frequency point on the LCD quickly change increase or decrease. The search will automatically stop when a station is searched, then play the searched station.
 C Long press “Q/♪” to start the fully automatic station search and storage function. The LCD display will show a full automatic scan from the lowest to the highest frequency point and stations with a signal will be stored as P1,P2,P3,... in order automatically, which is the address number of the stored stations. After the scan finish, it will back to play station P1,if no signal is searched during the scan, the LCD will indicate “-”:
 [Each automatic scan will overwrite the previous

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scanned stations]. After the scan finish, short press “Q/♪” to choose and recall the stored stations. You also can select the stored stations by “<<” “>>” button when the frequency digit is flashing after lightly pressing “Q/♪” .

In power off state, long press “<<” “>>” simultaneously, 9K or 10K step values of AM can be switched.

3. WB Radio Mode

Short press “<<” “>>” ,the weather channel will adjust up or down from:
 CH-1 (162.400MHZ) ,CH-2 (162.425MHZ) ,
 CH-3 (162.450MHZ) ,CH-4 (162.475MHZ) ,
 CH-5 (162.500MHZ) ,CH-6 (162.525MHZ) ,
 CH-7 (162.550MHZ) .
 Long press “Q/♪” to enter Auto Alert ALERT (alarm sounds and red light blinks when NOAA is activated), and then press “@/M” to exit Auto Alert ALERT in Auto Alert state.

4. Bluetooth Mode

Short press “<<” “>>” to select songs, short press “Q/♪” to pause playback.

5. Volume adjusting

Short press “+” “-” to adjust the volume, volume levels: 0-27.

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6. SOS Alarm

Short press the 'SOS' button once, the horn will sound an alarm accompanied by a flashing red light, short press it again will turn off the alarm function.

7. LED lighting

In power on state,short press “☼” to turn on/off the far beam, long press “☼” to turn on/off the low beam;The far beam and low beam can be turned on or off at the same time with a short and long press “☼” .

8. Headphone listening

The radio is equipped with a Φ3.5mm headphone jack. To protect your hearing, please turn the radio volume to the minimum before insert the Φ3.5mm headphone, then slowly adjust the volume to a suitable level for listening. The external speaker will automatically cut off when the headphone is connected.

9. Radio charging

The built-in rechargeable battery of the radio can be charged in three ways: external DC power supply, hand crank and solar panel.

① External power supply charging: When the power indicator shows that the power not enough, please insert the DC 5V/1A-2A plug into an external power socket to charge the radio.

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② Hand-cranked charging: Hold the radio and rotate the hand-cranker, maintain the same direction and a stable speed at a speed of 120 rpm, when the charging indicator is on, the radio is under charging. The hand-cranked generator can be turned clockwise or counterclockwise to charge. Please do not make a sudden stop or change direction suddenly when rotating, because this will seriously damage the hand-cranked generator. 1 minute of cranking equals 8 minutes FM radio (at 2/3 volume), or 25~30 minutes lighting.

③ Solar charging: Place the solar panel in sufficient sunlight to charge the internal rechargeable battery, the solar charging indicator will be on. Solar charging is mainly for maintain and prolong the battery life, and for a short time use in an emergency.

④ Charging a mobile phone: Plug one end of the mobile phone charging cable into the 'USB-A' jack, and the other end into the mobile phone's charging jack. Note: The radio should retain sufficient power to charge the phone.

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Precautions

- Avoid violently hit or frequent drop.Avoid water from entering the inside of the machine.
- This machine has built-in lithium batteries, please do not disassemble the lithium battery without permission to avoid short circuit. Please charge the battery every 3 months to ensure battery life if you won't use it in a long time.
- If the volume becomes low and accompanied by distortion, it is likely that the rechargeable battery is insufficient. Please charge.
- When using hand-cranked charging, please maintain a stable speed and same direction, do not force stop during high-speed rotation or suddenly reverse during rotation, which will seriously damage the generator and shorten the life of the hand-cranker.
- The products are adjusted by precision instruments. Please do not disassemble the machine to adjust the internal components.
- Please use a soft cloth with detergent to clean the radio. Do not use strong solvents such as alcohol or thinner.

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FCC Statement

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 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.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.