


SOLAR FM TRANSMITTER



USER'S MANUAL  
MODEL: VM-223

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Thank you for choosing VM-223 Solar FM Transmitter which is dedicated for cars. This product uses a high-performance Bluetooth module and audio decoding chip, supports AUX input and comes with a remote control, supports Type-c cable and solar charging. Not only it can connect the music from the mobile phone to the car stereo through Bluetooth, it can also play music files in flash drive or TF card and transmit it to the car stereo wirelessly. Built in hands-free phone call system switches between music and incoming calls seamlessly and enables you talk on the phone freely. Remote control can be glued to the steering wheel and makes it convenient for you to activate the voice assistant, answer the phone and switch songs etc. while driving. This product works by means of wireless transmissions, so you can keep the original classic setting of your car and still enjoy music on the road.

**Safety Guide**

(1) Do not drop, puncture or disassemble this product.  
(2) This product is not waterproof, please do not expose it to rain or water splashing.  
(3) Do not place this product in an open flame that may cause an explosion.

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(4) Clean with a clean soft cloth and do not use any corrosive cleaning agent.  
(5) Drive safely. Do not operate this product while driving.

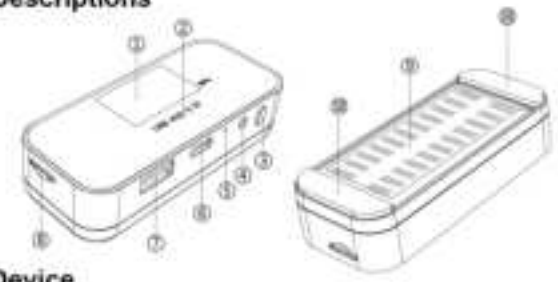
**Features**

1. Short press the voice button to wake up the voice assistant, voice navigation and voice dial.  
2. The remote control can be glued to the steering wheel to answer the phone and switch songs while driving.  
3. Supports mobile phone A2DP function, plays high-quality mobile music directly after connecting to Bluetooth.  
4. After connecting to Bluetooth, it will automatically connect back after power on and enter the pairing state automatically.  
5. Supports AUX in/Flash drive/TF Card to play MP3/MA/WAV/FLAC format music.  
6. Supports solar energy and TYPE-C cable to charge the transmitter.  
7. When the remote control battery is used up, please replace the battery.

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opening or vehicle power on, the device will automatically wakes up.


**Descriptions**



**Device**

① LED Display  
② Mode Light  
③ Switch  
④ AUX In Port  
⑤ Microphone  
⑥ Type-C Charging Port  
⑦ Flash Drive Slot  
⑧ TF Card Slot  
⑨ Solar Panels  
⑩ 3M Adhesive

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**Remote Control**

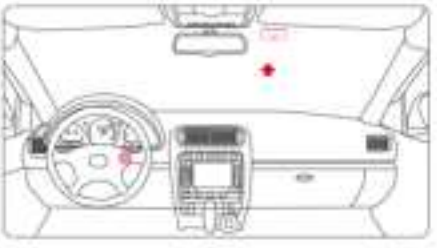
⑪ Voice Button  
⑫ Answering Button  
⑬ Next Track Button  
⑭ Hang Up Button  
⑮ Previous Track Button  
⑯ Remote control Back Cover  
⑰ 3M Adhesive  
⑱ 0.5M 3.5MM Aux In Cable  
⑲ Type-C Charging Cable

**Instructions**


Tear off the 3M adhesive on the back of the VM-223 and stick it on the windshield. The main unit is divided into two parts and connecting by magnets, which can be

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used separately for cable charging. Press 3 seconds to turn on the device, and use it with the remote control.



Tear off the 3M adhesive on the back of the remote control and take out the battery insulation sheet, and then stick the remote control on the steering wheel where it is easy to operate.



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**Frequency Modulation**


Long press the voice button on remote control to enter the frequency setting interface, through the previous track button and next track button to adjust the transmit frequency.

Select any radio frequency on this device, and turn on the car FM radio, and adjust the receiving frequency of the car radio to be consistent with the frequency of the device you select. This device supports 199 transmission frequencies of 88.1MHz-107.9MHz.

**(Note:** When the set frequency is the same as the broadcast frequency, the sound quality will be deteriorated, simply change to other frequency).

**Bluetooth Connection**

Enable Bluetooth on your smartphone and search for available Bluetooth devices, select "VM-223" and connect.



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**Music Play**

When the VM-223 Solar FM Transmitter is successfully connected to your smartphone, you can play music from your phone, the music will be transmitted to your car stereo via Bluetooth, you can also play the music from flash drive or TF card. And to further reduce the audio signal loss during the wireless transmission, you can even connect your phone or any audio device with our product by using a 3.5mm AUX cable.

Previous Track	Press "⏮" to switch to the previous track
Next Track	Press "⏭" to switch to the next track
Clear Bluetooth Connection	Under Bluetooth mode, long press "⏮" to clear current Bluetooth connection.
AUX Mode	The mode will change automatically when AUX/flash drive is inserted under Bluetooth connection. Long press "⏮" on the remote control to switch modes between AUX/flash drive/Bluetooth. When AUX/flash drive is removed, the mode will resume to Bluetooth.

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**Hands-free Phone Calls**

When the VM-223 Solar FM Transmitter is successfully connected to your smartphone, you can enjoy convenient hands-free phone calls.

Answer/Hang Up	Press "☎" to Answer Press "☎" to Hang Up
Voice Assistant	Press "🗣" to wake the voice assistant. During a hands-free call, press "🗣" to switch to a private call, press again to resume to hands-free call. Long press "🗣" to enter the radio frequency adjustment mode.

**Charging**

Charging methods include Type-c cable charging and solar charging.

Type-c charging: There is a charging port on the product, simply charge it by connecting the charging cable.

Solar charging: Put the solar panel at the sun to charge the built-in battery.

**Replacement battery**

After the battery of the remote control is used up, open it

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along the notch of the back cover, replace the battery and then cover it.

Note: You will need to purchase CR2032 button batteries for replacement.

**Specifications**

Input: DC 5V-1A  
Bluetooth Version: V5.0  
Audio Frequency: 20Hz~20kHz  
Working Current: 80mA(Max)  
Stand-by Current: 50uA(Max)  
Bluetooth Working Frequency: 2.402~2.480Ghz  
Bluetooth Effective Distance: 10M  
Remote Control Effective Distance: 3M  
FM Emission Effective Distance: 3M  
Sensitivity: -89dBm  
RF Output: 4dBm  
FM Frequency: 88.1MHz-107.9MHz  
Transmitting Power: 87dBuV/107dBuV

**FCC Compliance Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this

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

⚠ Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

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– 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.

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**What is in the Package**

(1) VM-223 Solar FM Transmitter  
(2) VM-R02 Remote Control  
(3) User's Manual  
(4) Type-C Charging Cable  
(5) 0.5M 3.5MM Aux In Cable

★ Please note product features will be upgraded without any notice.

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型号: VM-223  
材质: 120g双铜纸  
工艺: 四色双面印刷

成品尺寸: 95\*105MM  
展开尺寸: 570\*105MM (不含出血位)  
折页方法: 风琴折

