

## User's Manual

### Product Introduction

MOREFINE ELF Car Bluetooth FM Transmitter is a Bluetooth MP3 player developed for car-used, which equipped with professional high-performance Bluetooth module and MP3 decoder chip.

It can play and transmit the music from TF card/USB flash disk to car stereo via FM radio signal.

It can transmit your mobile phone's music to car stereo via Bluetooth.

It can also be used as a hands-free car kit during driving.

This device transmits signal by wireless method, no need to refit anything in car. It can be used both as the music player in entertainment purpose or hands-free car kit in safety purpose during driving.

### Product Features

1. This equipment can detect the voltage of car battery.
2. Support Bluetooth hands-free phone calling via its build-in microphone.
3. Support mobile's A2DP function. Music will be played directly while the mobile phone is connected.
4. Mobile phone can be connected automatically when the device powered on.
5. Support an external TF/ USB flash disk, can play music files in MP3/WMA format.
6. Integrated car charger of output 5V-2100mA, is available for charging handheld devices in car.

### Operation Instructions:

#### 1. First Time to Use This Device

- (1) The device turns on automatically when plug it into car cigarette lighter power port.
- (2) Select any of a quiet frequency on the device.
- (3) Turn on car FM stereo and select the frequency same as that of the device.

#### 2. Frequency and Volume Adjustment

- (1) This device supports 206 frequency channels from 87.5MHz to 108MHz. Long press the CH button on the left side until the frequency number flickering on the screen to activate frequency setting menu. It will auto-exit after flickering 5s without operating. Please rotate to set the frequency channel. Press and immediately release the button for setting with 0.1MHz per interval. After your setting completed, if there is no any operation in 5 seconds, the device will save quit the menu automatically.

(2) Adjust the volume by rotating the key

### **3. Play Music from TF card/USB flash disk**

(1) Insert the TF/Micro SD card into the TF/Micro SD card slot, it will automatically detect and play the MP3/WMA format music in the card.

(2) Plug the USB flash disk into the device's USB port, it will automatically detect and play the MP3/WMA format music in the USB flash disk.

### **4. Music Play/Pause/Select**

(1) When the device is playing music from TF card or USB flash disk, please press and immediately release button to pause the music , and then press and immediately release the button to play the music again.

(2) When the device is playing music from TF card or USB flash disk, please press and immediately release button to select previous or next song.

### **5. Loop Playback Setting**

When the device is playing music from TF card or USB flash disk, the name on the screen is displayed in numbers.

### **6. Connection to Bluetooth Devices**

(1) This device equipped with build-in Bluetooth chip, can connect to other handheld Bluetooth devices.

(2) The pairing function will be activated automatically when the device is powered on. With the Bluetooth logo blinking on the display, please search this device with the name of "ELF", and then connect it.

(3) This device has memory function. It will automatically connect to its memorized paired Bluetooth device when powered on.

### **7. Play Music from Mobile Phone**

After successfully connecting mobile phone to the device via Bluetooth, you can play the music from mobile phone in car stereo by the wireless signal transmission. You can also operate music playing of Volume/Play/Pause/Previous/Next on mobile phone, or on the device.

### **8. Switch Music File Sources**

This device can play music from TF card/ USB flash disk or connected Bluetooth devices. It defaulted plays music from phones via Bluetooth. When two or three sources are available, please press and immediately release the button to pause, and select by the CH button on the left side. Please notice the screen menu icon when selecting, and then press button after confirmation.

### **9. Bluetooth Hands-free Function**

(1) When there is an incoming call, press and immediately release the button to answer

the incoming call. If you want to end the call, please press and immediately release the button.

(2) You can re-dial the last calling number by double-press the button.

(3) Reject an incoming call: you can long press the button for 3 seconds to reject an incoming call.

## **10. AUX Input**

AUX Input: this device supports external audio source input. It can play the audio from MP4, MD, CD by AUX input interface. When the external source connected, the device will play the audio file in car stereo by FM signal.

## **11. Language Select**

This device support English, when a call comes, the Caller ID can be voice broadcasted from car stereo via FM radio signal.

## **12. USB Car Charging Function**

This device has car charging function with voltage output of DC 5V and current output of max 2.1A. The charging output interface is marked as 2.1A ".

## **13. Detect Voltage**

This device can display car battery's voltage when plug it into cigarette lighter and power it on. If you want to see the car voltage on the display, please short press the CH key twice. After 3 seconds without operation it will quit automatically to the default menu.

## **14. Detail Description**

AUX

CH Key

USB 1 Charging Port

USB 2 Flash Disk Expand

Display

Previous Song/Frequency —

Next Song/Frequency +

TF/Micro SD Card Expand

Multifunction Key Pause/Play/Call/End/Volume +/—

The Negative Power Supply

The Positive Power Supply

## **Bluetooth**

Sensitivity: -42db + /3 db 360

Voltage: 5 V +/-0.5V

Working Current: 45mA (Max.)

Stand-by Current: 25mA (Max.)

Frequency: 2.402~2.480 GHz

Effective Range: 5 meters

Sensitivity: -92 dBm

RF Output:  $\leq 7$  dBm

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**Note:** This device is compatible with most of the mobile phones, except of a few mobile phones that are not available to use part of above functions.

Product features will be upgraded without any notice.

## **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.

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

NOTE: 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.