

# F-190's user manual

Thanks for using our FM Modulator, now you have one complete set of wireless Car music system, you can enjoy the songs together with your family and your friends. Before using our product, please read our manual in detail.

## ***Accessories***

set body product: 1pcs

remote control: 1pcs

manual: 1pcs

audio line: 1pcs

2.0A fuse: 1pcs

## **F-190's feature**

1. Support SD card, USB, to play the music in MP3, WMA format.
2. Indicate phone number, ring bell and flicker after coming call.
3. When dial a number, it will enter to phone mode automatic.
4. Private listen function, transform to mobile phone or microphone.
5. The Bluetooth is 2.4G stereo (standard is 2.0), more clearly to listen.
6. The FM adopt stereo digital transmit IC, high oppugn disturb.
- 7 Adopt 20 keys remote, it can achieve put on, take off, and private listen funcion

## ***operation of the keys***

1. “+” frequency add: press it u can choose up frequency.
2. “-” frequency down: press it u can choose down frequency.
- 3 “◀◀” last music (volume down): press it u can choose the last music, long press it's volume down.
4. “▶▶” next music (volume add): press it u can choose next music. Long press it's vlume add.
- 5 “▶/⏸” play/stop: when insert 12V car cigarette, it will play the music automatic. Press it, the music will stop, if again, then continue play.

6 “” key used for listen and cut off coming call: when the call coming, music will stop play, press it, connect the coming call. After finished the talk, press it again. Then the call was cut off. Again to the music.

7. “” is the key for private phone call: when the call coming, if you don't want other people to hear, you can press it, after then you can hear though your mobile phone. If you want to use the car audio to talk for a while, please press it again, it will be switched to the bluetooth car kit system.

operating instruction for infrared ray remote control

1. Press **◀◀ / ▶▶** key to choose the song if you like, it will show number of the song on the screen.

2. You can also press “0~9” to choose the song if you like and the song number will be show on the screen,

For example: to press “1”, “3”, “5”, after then to press “PICK SONG”, you can see “135” on the screen and the song No. 135 will be played.

3. Press “-” key to reduce the volume, press “+” key to add volume, you can also control the volume through your radio.

4. press “CH-” key to reduce the frequency, press “CH+” key to add frequency, u can choose the right frequency, and then it will display on the screen.

5. You can also press “0~9” to choose the right frequency and the frequency will show on the screen.

For example: To press “1”, “0”, “7”, “5”, after then to press “CHSET”, you can see “107.5” on the screen.

6. press “EQ” key to choose the music mode.

7. a. press **▶/⏸** key to pause or play the music

B. press **▶/⏸** key to answer the phone call and press **▶/⏸** again to hang up.

## Bluetooth Operating Instruction

When it is power on, the mobile phone will search the bluetooth equipment and will connect when find it. After code is required, please press 0000 and press **▶/⏸** in the same time, the mobile confirm connecting successful it will be OK.

### Summary of Benefit

#### ● Complete Bluetooth Solution

- Complete 2.4GHz radio transceiver and baseband
- CSR Bluecore 03- **BT MultiMedia**, single chip bluetooth system with CMOS technology
- Adaptive frequency hopping feature (AFH)
- Smallest footprint, 20mmX13mm
- Simplify overall design/development cycle
- Full speed Class 2 bluetooth operation
- Class I support using external power amplifier

## Audio Line Instruction

1. Operate as the above picture, insert 2.5mm audio line to the audio plug

2. insert 3.5mm audio line to other music player, such as MP3/MP4 player, CD and DVD player.

3. Turn on the music player, such as MP3/MP4 player, CD and DVD player, the music will be input to the FM Modulator through the audio line.

4. You can enjoy the nice music through the car radio.

## ***specification***

Power	DC 12V-24V
Support file format	MP3/WMA
frequency response:	100-15000Hz
frequency stability:	± 20ppm (-10°C+50°C)
Operating temperature:	-10 to +55 (degrees Celsius)
Working current	<150mA
FM transmit distance	from 88.1 to 107.9MHz, 0.2MHz
Stereo crosstalk	45DB
Audio frequency plug:	USB jaws/2.5 audio jaws/SD plug
Transmit distance	<5 meters

## ***fuse change instruction***

Please check the fuse when you find the screen doesn't work, take away the bad fuse, and replace it with the same item fuse

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## ***Notice items***

- 1, Please use the customized voltage, DC 12-24V, it may make the machine work unusual or damage the product itself if the voltage you using is out of voltage range
- 2, When the car is booting or firing, please don't insert the product to the car cigarette hole, or it may make the machine doesn't work
- 3, Please take the machine out of cigarette hole if you don't use it for long time
- 4, Please use the car's speaker to control the volume, don't make the machine's volume too big or some music may cause storm sound or distorted phenomenon, please choose volume lacking to adjust it if the music appears storm sound or distorted phenomenon
- 5, Please avoid local strong radio station when you choose channel, in case of effect the sound quality
- 6, Please check the product's frequency if it is the same as the car's frequency or try to turn on the music's volume if the car can not receive music

## ***Check, repair***

when you using it and find the screen doesn't work, maybe it is because the fuse is bad, so please check and change the fuse

FCC Note:

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.

**NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.**