3-in-1

MP3 Audio Transmitter

Mobile Hand-Free Car Kit

Wireless Microphone

User's Guide

Index

Manufacturer's Disclaimer Statement

Statement

This document contains materials protected by copyright. All rights are reserved. No part of this manual may be reproduced or transmitted in any form, by any means or for any purpose without expressed written consent of its authors.

Trademark

All trademarks, product names or brand names appearing in this document are registered property of their respective owners.

IMPORTANT NOTE:

To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCCRULES.
OPERATIONS 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 INTERFEERENCE THAT MAY CAUSE UNDESRIED OPERATION

Introduction

Dear Customer,

Congratulations for your purchase of this Unit。

Before operating the unit, please read this manual thoroughly and keep it for future reference。This manual will help you enjoy more exciting and useful feature。

This unique product enable you to listen MP3 music through car/home/portable radio system, also hand-free operate mobile phone in the car, furthermore, use it as high-performance wireless microphone in the classroom, conference meeting etc.

For any question about this unit, you may call your local distributor.

Outlook Appearance

Neck Strap Hole

Battery Container

Beeper

Microphone

LCD Display

Mobile Phone inlet

MP3/iPod/CD Audio Inlet

Right adjust key

Function key

Left adjust key

Power Connector

Car Power Connector

Car Cigar Jack head

LCD Display signs

C : Mobile phone operating mode

♪ : Music playing mode

♪ : Microphone mode

8889 : Current frequency channel

🔋 : Battery status

Power Supply

This unit has two kinds of power source:

1. DC-12V from car cigar-jack **(pic.1)**

2. 2pcs AAA alkaline batteries **(pic.2)**

Note:

Battery Power-Saving function

Battery power will auto shut down when car cigar-jack power is connected Five minutes before the battery runs out, the product will emit a beeping sound and display " LOW " on the LCD every 10 seconds **(pic.3)** to remind users to replace the battery.

Pic-1 Power from car cigar jack

Pic-2 Battery

Pic-3 Low battery Indication

Power On/Off

Power ON:

　　Hold Round Function key for 3 seconds to turn ON,

　　LCD will display previous adopted Frequency . **(pic.4)**

Power OFF:

　　Hold Round Function key for 3 seconds to turn Off

　　Power. **(pic.5)**

Note:

Auto Power Off by audio disconnection

For avoiding unnecessary battery consumption, when MP3 or Mobile Phone disconnects to this unit for 5 minutes, this unit will auto turn off for saving battery power.

Pic-4　Power ON　　　　　　Pic-5　Power OFF

How to Adjust Frequency

There are two frequency-adjust-keys (right and left) below the LCD display:

a. The left one is the frequency decreasing (-) button **(pic-6)**

b. The right one is the frequency increasing (+) button **(pic-7)**

6

Pic-6 Freq. decrease   Pic-7 Freq. increase

1. Normal Adjustment Status - No frequency memory was preset.
   a. Slightly press for micro-adjustment (interval 0.1Mhz.),
   b. For fast adjustment, hold the adjust key for over 2 seconds.

2. Memory Adjustment status
  (In the condition you already preset some frequency into the channel memory. Please refer to the next page about presetting frequency into the channel memory.)
   a. Press the adjust key to the next memorized frequency, LCD will blink once the number of memory set (MEM0-MEM9) then it will display this frequency.
   b. To return to Normal-adjustment status, press adjust key for over 2 seconds then release, system will enter "Normal Adjustment" mode for micro-adjusting frequency. However, if there is over 5 seconds break of pressing adjust key, system will automatically go back to "Memory-Adjustment" mode again.

To Find the useful channels from car/home/portable radio station

1. Set radio station to FM mode. **(pic.8)**
2. Then adjust the radio channel between the range 88Mhz to 108Mhz to find some unoccupied channels (the receiving signal of channel is weak or even none) and record the selected channels on a note paper **(pic. 9)**

Pic-8   Set Radio to FM Mode

Pic-9   Adjust Radio frequency between 88Mhz~108Mhz

To Memorize the selected radio channels into the product

This unit offer 10 sets of channel memory (MEM0 – MEM9), you could follow under procedure to memorize the selected channel into this unit.

1. Press Adjust key to set the frequency same as the noted radio channel
2. Press 3 times round Function key to enter MEM (memory) status. **(pic.10)**
3. Press Adjust key to select target number of memory-set (MEM0 – MEM9). **(pic.11)**

4. Hold Function key for 3 seconds to confirm the memorization.
5. Repeat above procedure to memorize all noted radio channel into the unit.
6. Memory Overlap Function: if you want to change the frequency of certain memory-set (ex. MEM7), just repeat above memorization procedure, the new frequency will overlap and replace previous one.

Recommend to Preset a Fixed Channel On Radio Station

After your setting the most clear radio channel (station) as the first MEM0 memory set, this one (MEM0) will be prioritized as the special channel for MP3/Mobile Phone communication in the future.

For the compatibility with this MEM0 frequency, we strongly recommend you to preset your car radio frequency with the same MEMO frequency , and set this frequency as one of the favorite channels on the radio station for playing MP3 music and mobile phone calling   (*Most cars' Radio system is equipped with 4 to 10 sets bottoms for presetting your favorite channels). **(pic.12)**

Pic-10   Press to MEM mode

Pic-11 Set the selected channels to MEM0~MEM9

Pic-12   Preset a fixed favorite Channel On Radio Station for playing MP3 and phone communication

Find the memorized frequencies to change channels

When the receiving channel is interfered by other FM radio signal, you may need to change to other suitable channels from recorded channel memories (MEM0 – MEM9) on this unit for better receiving result.

1. Press Adjust key to next memory set (MEM0-MEM9), LCD will blink once the number of memory set, then display the frequency of this memory set on the screen.
2. Adjust the car radio station to the same frequency.

Note:

1. if all memorized channels are interfered, please start to search the suitable & cleanest new channel (frequency) from your radio station by micro-adjustment.
2. press adjust key for over 2 seconds and release, system will enter "micro-adjustment" mode, however, if there is over 10 seconds break of pressing adjust key, system will automatically go back to Memory-Adjustment mode again.

Connecting to MP3 and Mobile Phone

There are two connection inlets on the side of the unit
- Upper inlet connects to the earphone outlet of mobile phone **(pic.13)**
- Lower inlet connects to the earphone outlet of MP3 player or other audio device **(pic.14)**

Pic-13   connect with mobile phone   Pic-14   connect with MP3

Play MP3/iPod/CD Music through car/home/portable radio station

1. Set to the same channel (frequency) between this unit and FM radio station on car/home/portable audio device.
2. Connect to MP3 or iPod.
3. Press the Play button of MP3/iPod player
4. Music will be broadcasted through the speakers of the car/home/portable audio device.

Mobile Hand-Free Communication through Car Radio Speaker

Call in
1. Adjust the FM frequency of in-car radio system and this unit to the same channel.
2. Connect mobile phone to this unit
3. When there is incoming call, this unit will be triggered to

auto pick up the phone to proceed hand-free communication through car speaker.

4. MP3 music playing will temporarily pause.
5. 10 seconds after hanging up, MP3 music will automatically re-play.

Call out

1. Dial the number who you want to call then press the "Talk" button on the mobile phone.
2. The receiver party answers the phone
3. MP3 music will temporarily pause.
4. Start to talk through car speaker system.
5. 10 seconds after hanging up, MP3 music will automatically re-play.

Note:
1. Auto-Pick-Up function

This unit is equipped with Auto-Pick-Up function to automatically pick-up in-coming call, this design allows the driver proceed mobile phone hand-free communication through car speaker system.
If your mobile phone doesn't supports Auto-Answer function, you need to manually press the "Talk" button on the mobile phone to pick up the phone for communication when mobile phone rings, and press "Stop" button to hang up the mobile phone.

2. Mobile-Phone-Priority Function

This unit (FM Transmitter) has a special design called " audio-source-distinguish " function, mobile phone signal has higher priority than MP3 music signal , when phone call-in signal is received, the MCU of this unit will auto-distinguish and temporarily stop the

music play from MP3.   10 seconds after hanging up, MP3 music will automatically re-play.

How to Use Wireless Microphone

1. Adjust the FM frequency of radio system and this unit (FM transmitter) to the same channel.
2. Press two times Function key to "MIC" mode. **(pic.15)**
3. Speak to the microphone (the small hole on the center upper above LCD) in the suitable 3 – 6 cm distance (mouth to microphone).
4. Locate the speaker to the suitable distance, and adjust the output volume of speaker to the best symphony

Pic-15   Press to "MIC" mode

EQ (equalizer) Backlit

This design allows to activate LCD backlit color changing following to MP3 music tempo equalizer。

1. During MP3 music playing, press one times the Function key to "EQ" mode. **(pic.16)**

2. Press the Adjust key to select your desired EQ. (JAZZ, ROCK, POP, CLAS , NORM) **(pic.17)**
3. Press function key to confirm the selection 。
4. Adjust the input volume of audio source like MP3 or Ipod to suitable condition by examining if the LCD blue backlit blink .

Pic-16　Press to EQ mode   Pic-17　Select your desired EQ

Note:
For power saving purpose, this function does not work on battery-power mode.

LCD Backlit Indicates the Adjustment Of Input Audio Volume

The **"Input audio volume detection with LED indication"** is another amazing design in this product, you may follow the indication by LCD backlit to adjust MP3/Ipod volume to get the best symphony broadcasting result in car/home/portable audio system.

1. Blue backlit blinks: suitable volume.
2. Blue backlit constantly lights on: volume too loud.

3. Blue backlit extinguishes: volume too small.

Note:

1. There are two kinds of LED (blue and orange color) backlit on LCD screen, orange LED is the basic light for LCD, blue LED is for indicating the audio effect.
2. For power saving purpose, this function does not work on battery-power mode.

Q&A

Q:

MP3 music and mobile phone fails to broadcast through radio system?

A:

1. Check if the FM frequency of radio system and this unit are set on the same channel.
2. Check if the audio cable is properly connected between MP3/Mobile Phone and this unit.
3. Check if MP3 player is on music playing mode, or if mobile phone is turned on.

Q:

The broadcasting result is not clear, ex: interference?

A:

1. Check if the battery power of this unit is enough by examining the battery indicator icon on the LCD.
2. Adjust the volume from MP3/Ipod player/mobile phone to the best symphony condition until LCD of this unit display blinking blue backlit.
3. If the above processes cannot solve the problem, then please change the FM frequency to the next channel.

Q:

When proceeding mobile phone hand-free talking in the car, the receiving party hear echoes during the communication?

A:

Under the consideration of cost, this unit hasn' t designed the echo-cancellation circuit, therefore when you proceed hand-free talking in the car, few of your broadcasting voice will pass through the mobile-phone' s microphone to the receiving party' s hand

phone and make echo noises.   To overcome this problem, please turn the output volume or tremble of car speaker to small level.

Q:
When proceeding mobile phone hand-free talking in the car, the other party can hear clearly my voice, but I can not hear his voice. After few seconds the mobile communication stops to go back to Music play mode?
A:
Some mobile phones'   hand-free mode does not open the Amplifying function, therefore our FM transmitter is not able to detect the mobile phone signal to misjudge and hang up the mobile phone.   This can be solved by switching on your mobile's Amplifying function.

Q:
Sometimes, this unit can not successfully auto-pick-up coming call ?
A:
The detecting distance for phone calling-in signal to this product is around 45 cm circle, please adjust the distance within this field, also it is much better to let antenna of mobile phone to point to this transmitter.

Q:
During phone communication, why suddenly back to music-playing status
A:
Featuring on humanistic design of the product, when both speaking parties keep silent over 10 seconds to a supposedly arguing condition, the product will return to music-playing mode automatically to ease up the tensional atmosphere and cool down

both sides. This product can move back to phone communication mode once either party starts to talk.

Q:

When using wireless microphone, some interference sounds or echoes appear

A:

1. Adjust the volume or tremble of the broadcasting device (home-theater system or portable radio) to the suitable condition.
2. Extend the distance between this unit (wireless microphone) and the broadcasting speaker.
3. If possible, the broadcasting speaker should be located in front of this wireless microphone with certain distance.   It is best not to locate the broadcasting speakers behind this wireless microphone.

Q:

Why my Mercedes Benz car with the Shark Antenna can not work with your unit?

A:

This New type Shark Antenna in some high-class cars has strong receiving signal to restrain the radio transmission of our unit.   Due to the RF Regulation ,our unit is not allowed to magnify the frequency, that is the reason why this unit can not work with your Shark Antenna.