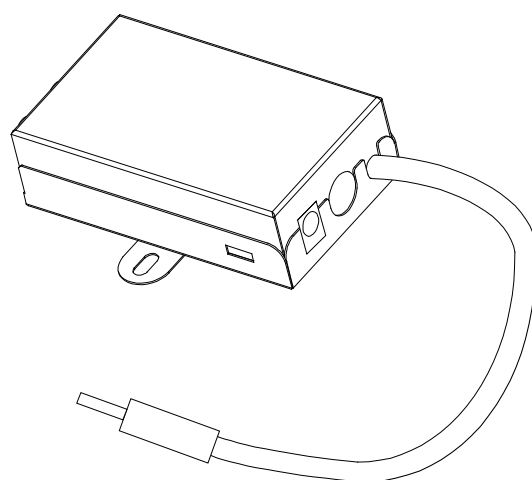




# FM Modulator



## USER'S GUIDE

**V3**

**[www.dension.com](http://www.dension.com)**

**DENSION AUDIO SYSTEMS LTD.  
HUNGARY**



## THE FM MODULATOR

The task of the **FM Modulator** is to transform the **DMP3** player's sound signal into CCIR standard FM radio signal and by this to make the player's program available through the car's Hi-Fi Fm radio's receiver. This solution is needed if the Line-In input is missing in the receiver.

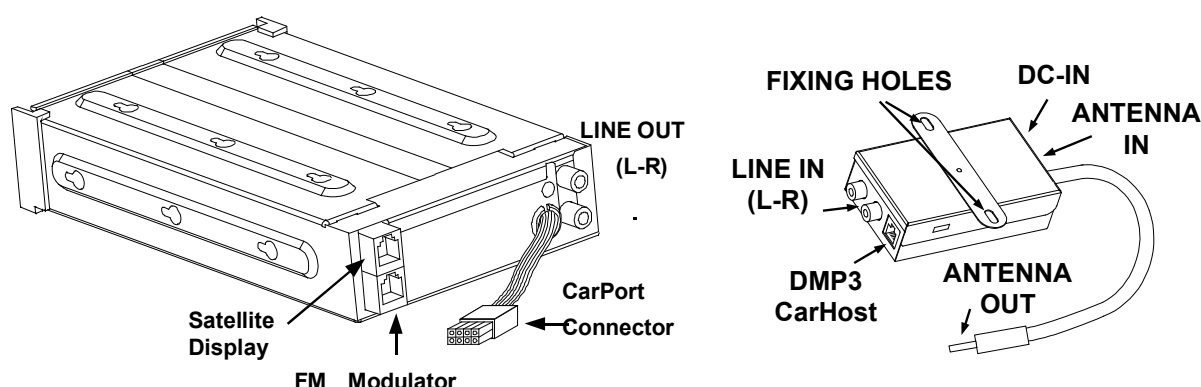
The **FM Modulator** is able to produce radio signal on a selectable frequency in the FM broadcast band. Choosing the FM channel is possible in the **DMP3 Setup** menu, see details in the player's User's Guide.

### WARNING!

In most countries of the world regulations forbid the use of such instruments that could cause interfering transmission in the broadcast waveband. When not using the FM Modulator properly, it is able to transmit such radiation, so please keep the rules of the installation and use of the FM Modulator.

The Dension Audio Systems Ltd. does not take any responsibility for the legal consequences of improper use of the FM Modulator.

## CAR INSTALLATION

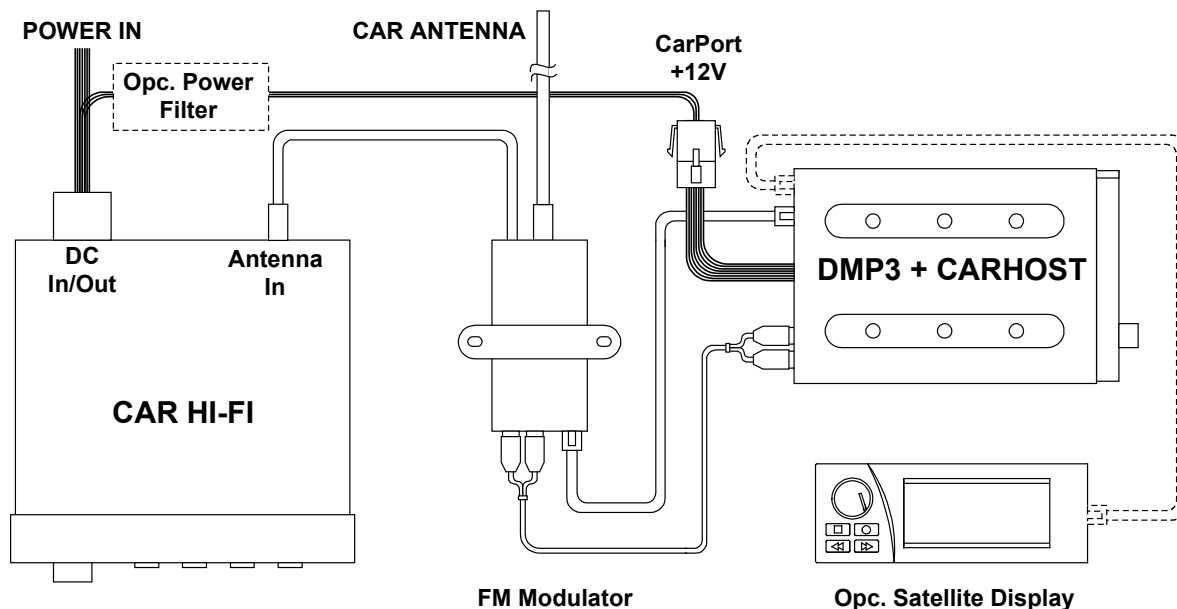


The **FM Modulator** is connected to the **DMP3** through the CarHost frame. Power supply and data communication needed for controlling the frequency happens through the RJ11 6/6 cable, which needs to be connected to the appropriate output of the CarHost. Sound signal can be connected from the line output using shielded RCA cable. The order of making the connections is irrelevant.

To avoid disturbing radio frequency radiations the **FM Modulator** can only be installed between the antenna and the car radio. In order this, the car radio has to be dismantled from the dashboard. The plug of the antenna has to be drawn out from the car radio and plugged into the bedding of the FM Modulator, while the floating cable of the Modulator equipped with the standard antenna connector has to be connected to the car radio.

If the car radio and the antenna use different standard plugs, use an adapter pair available in car shops.

**Attention!** The outgoing cable of the **FM Modulator** cannot stay free, it must be connected to the antenna input of the radio.



Because of the above mentioned specifications, the best place to install the **FM Modulator** is somewhere near the car radio, for example behind it, or in the glove compartment. If the enclosed cable is too short, use an extension cable available in car shops

To fix the **FM Modulator** use screws or the enclosed Velcro. We suggest to choose such a fixing surface which transmits the vibration of the car to the Modulator the least possible. Usually the Modulator can also easily be binded to a cable bundle.

**Important!** Leave the DC-In connector empty when the modulator is connected to the CarHost!

## INSTALLATION WITHOUT CARHOST

The FM Modulator can be used without the CarHost frame, connecting an external 12V power supply to the DC-Input plug on the modulator.

In such a case, the operating frequency is always 88,7 MHz. This is a factory default, which can't be changed.

## TURNING ON AND OPERATION

The **FM Modulator** automatically starts working when the **DMP3** player is turned on. Since the connection between the car radio and the antenna breaks and reception stops, listening to normal radio stations is not possible. To listen to the music You only have to select (must

be programmed) the same frequency on the car radio you have already set in the **DMP3** HW Setup menu.

In the Sound Menu of the player it is expedient to set such loudness, balance and tone that is in concord with that of the radio stations sounding.

**Attention!** Setting sound intensity of the **DMP3** too loud can lead to distortion of the FM modulated sound. Also by setting volume too low/soft noise gets bigger.

Once set the **DMP3** stores the settings (car mode) and always applies those in the car. If reception by any means would not be appropriate in the given frequency, choose another FM channel on the player. It is expedient to avoid such channels where originally there is a radio station. If you want to listen to the radio again, just turn off the **DMP3** player, which allows the antenna to get back to the radio's input.

## TECHNICAL DATA

<b>Size:</b>	88x53x26 mm
<b>Power supply:</b>	12 V DC (Supplied by the DMP3 CarHost frame or the external DC-In connector)
<b>Active current:</b>	< 40 mA
<b>Standby current:</b>	< 1 mA
<b>Operating temperature:</b>	0 - +50 C
<b>Storage temperature:</b>	-20 - +70 C
<b>FM channels*:</b>	87,9 – 95,0 MHz, selectable on the player
<b>Frequency response:</b>	30 – 15,000 Hz, +- 1 dB
<b>Channel separation:</b>	> 27 dB
<b>Signal/noise ratio:</b>	> 50 dB
<b>Distortion:</b>	< 0.3 %

\* 87,9 – 89,3 & 89,5 MHz preconfigured in the **DMP3** menu, to configure other channels, use MANAGER program

## Content of package:

- ◆ FM Modulator
- ◆ 2 screws
- ◆ Velcro strip
- ◆ RJ11 6/6 connecting cable (5m)
- ◆ User's Guide
- ◆ Warranty Card

*Let the Music be with You! All the time...*