

## HDMI to DVB-T (COFDM) stand alone home digital modulator **MOD-HDTV**

# MOD Series



The **MOD-HDTV** is a high quality DVB-T "Home" indoor digital modulator which accepts one HDMI or analog Stereo Audio / CVBS signal source and converts it into one RF DVB-T channel on its output. The excellent specs (Full HD 1920\*1080-30p) and modulation quality (MER~35dB) renders the **MOD-HDTV** the ideal solution for distributing HD or analog TV signals coming from e.g. a Audio/Video player, laptop or CCTV camera in a domestic coax network using the DVB-T technology.

The user has the ability to control the device by either using the onboard SSD (**S**even **S**egment **D**isplay) interface and keypad for quick installation or by using the USB interface with the appropriate software, available on FRACARRO website for download, accompanying the MOD-HDTV for advance programming.

### Main Specifications (\*)

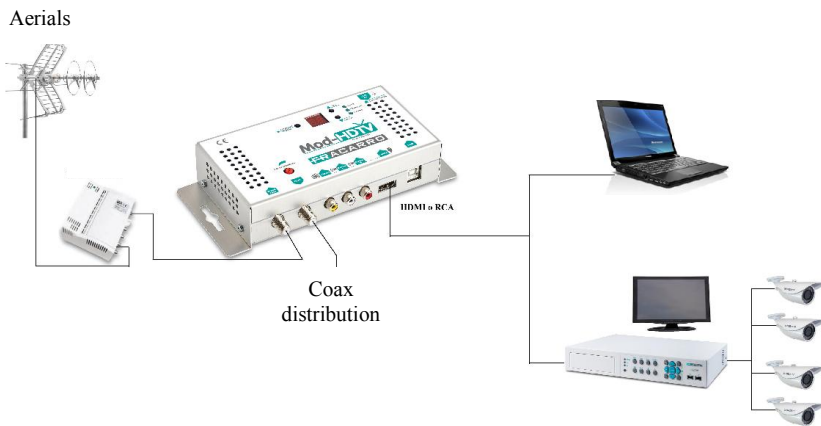
- **Automatic Input Source Detect:** When the digital modulator detects a valid input source connected (eg. from the HDMI input), it will "mark" this source as its primary source. In case of a failure of the primary source, the **MOD-HDTV** will automatically switch to secondary source which (in our case the CVBS input).
- **High Quality HD modulator:**
  - o HD source encoding (**MPEG-4 AVC/H.264**)
  - o High resolution (up to **1920x1080-30p** for HDMI)
  - o High bitrate (up to 19Mb/s)
  - o **35dB of typical MER** on UHF channels
- **Advanced settings:** by using the software it's possible to manage all the descriptor parameters of the digital mux (ONID, NetID, Provider Name) and of the program parameters (for ex. LCN, SID, PID).
- **Easy installation and start-up:** the user is able to install very quick and easy the digital modulator using the **Seven Segment Display** and the front panel keypad of the device.
- **USB Interface for advanced settings:** provides a USB interface with the appropriate software for advanced programming (please refer to Fracarro website support section)

		MOD-HDTV (*)
Fracarro code		287400
<b>Input</b>		
N° input	N°	1 x HDMI or 1 x CVBS (in automatic backup)
<b>Video specs</b>		
Video encoding		MPEG-4 AVC/H.264
Bitrate	Mb/s	1 ÷ 19 (adjustable)
Profile		High profile 4.0
Resolution		1920x1080-30p for HDMI - 720x576@25fps for PAL
<b>Audio Specs</b>		
Standard		HDMI & Mono/Stereo
Bitrate	Kbps	64, 96, 128, 192, 256, 320, 384
Level	Vpp	0.5 ÷ 1 (adjustable)
<b>Output Modulation</b>		
N° of generated mux	N°	1
Trasmission standard		DVB-T (EN300744)
Bandwidth	MHz	6, 7, 8
Carriers		2k, 8k
Modulation		QPSK, 16-QAM, 64-QAM
Guard interval		1/4, 1/8, 1/16, 1/32
FEC		1/2, 2/3, 3/4, 5/6, 7/8
<b>RF Output</b>		
Output frequency	MHz	174÷230, 470÷862
Output channels		E5÷E12, E21÷E69
Output step tuning	KHz	1
Maximum RF output level	dBµV	90
Output level adjustment	dB	0÷20
Impedence	Ohm	75
Typical Output MER	dB	35@UHF band

		General features (*)
RF mix input	MHz	47÷862
RF insertion loss (typical)	dB	1
Power Supply	Vdc, mA	12, 400max
Connectors	Type	2 x F female (RF), 3 x RCA (Analogue input), 1 x HDMI (digital input), USB (advanced settings via software)
Configurable parameters		Service Name, Service ID, Video PID, Audio PID, PMT PID, TS ID, Original Network ID, Network ID, Provider Name
LCN support		Yes (Nordig, ITC/UK, EICTA/Europe, New Zealand)
Dimensions (L.x W.x H)	mm	205x102x41
Operating temperature	°C	0 ÷ +50
Weight	Kg	0.3

(\*)Definitive specifications may change without notice.

## Installation Example



The **MOD-HDTV** is the ideal solution for distributing HD or analog TV signals coming from e.g. a Audio/Video player, laptop or CCTV camera in a domestic coaxial network

All the advanced settings can easily be done by connecting the **MOD-HDTV** to the laptop and using the client software available on Fracarro website for download (USB patch cable not included).

