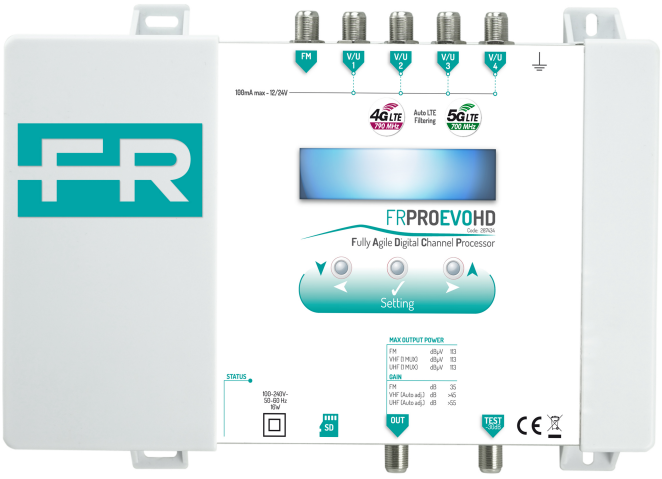
Digital TV programmable profiler

FRPRO EVO HD

Digital compact profiler



The Fracarro **FRPRO EVO HD** evolution profiler is a programmable compact high-selectivity headend, equipped with an innovative technology, that allows to filter, convert, amplify and distribute many DVB-T2/T digital terrestrial multiplexes available in VHF/UHF band with the possibility to mix also the FM signal on the output distribution.

FRPRO EVO HD is a "Flexible" Digital Terrestrial Channels processor that can be used to manage TV signals in small, medium or large installations such as Hospitality enviroment. Thanks to the output signal auto equalization feature, the compact profiler can also be used in the most critical or difficult reception contexts.

Main Specifications (*)

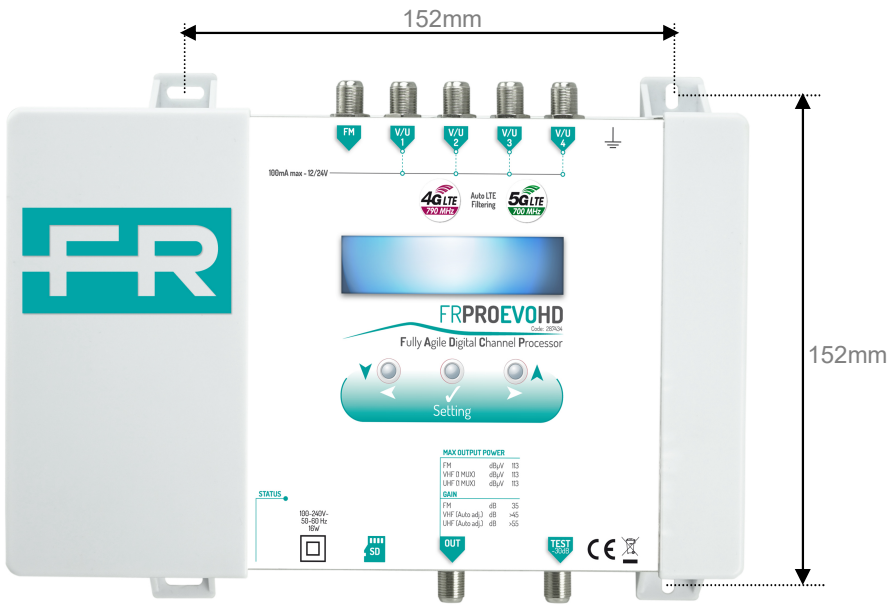
- **Output Signal Perfect Equalization**: the FRPRO EVO HD advanced profiler equalizes the TV output signals in order to guarantee a perfect stabilized signal in every condition. In this way all the distributed TV programs are correctly available in every coaxial system socket.
- **Iso-frequency filtering or TV channels processor:** the product can manage and process in a “Matrix way” more than 50 independent RF channels with a very high selectivity, especially regarding the adjacent channels.
- **Automatic Gain Control feature:** the advanced profiler offers an “real time” Automatic Gain Control system for each multiplex managed in the VHF/UHF band
- **4 VHF/UHF programmable inputs and one extra FM input:** FRPRO EVO HD is equipped with 5 independent inputs: FM input and 4 VHF-UHF inputs with remote 12-24V selectable power supply for all VHF-UHF inputs
- **Easy, Quick and secure setup**: thanks to the display and the three buttons available on the front panel, the settings of the Advanced Profiler FRPRO EVO HD is very easy, fast and intuitive. In addition, a security PIN code is provided to prevent accidental settings.
- **Auto LTE filtering:** each VHF-UHF input is equipped with a high-performance LTE filtering that automatically set itself to cut frequencies higher than 790MHz (4G) frequency or higher than 700MHz (5G) depending on the digital terrestrial multiplexes managed in the VHF-UHF inputs.
- **SD Card slot available**: the compact processor is equipped with an SD Card slot for saving the configuration or for exporting the parameters to another FRPRO EVO HD compact TV headend.
- **Easy and quick maintenence**: the power supply can be easily removed on the field and can be replaced with another with equal technical characteristics, in order to minimizing any service interruption.

Technical specifications

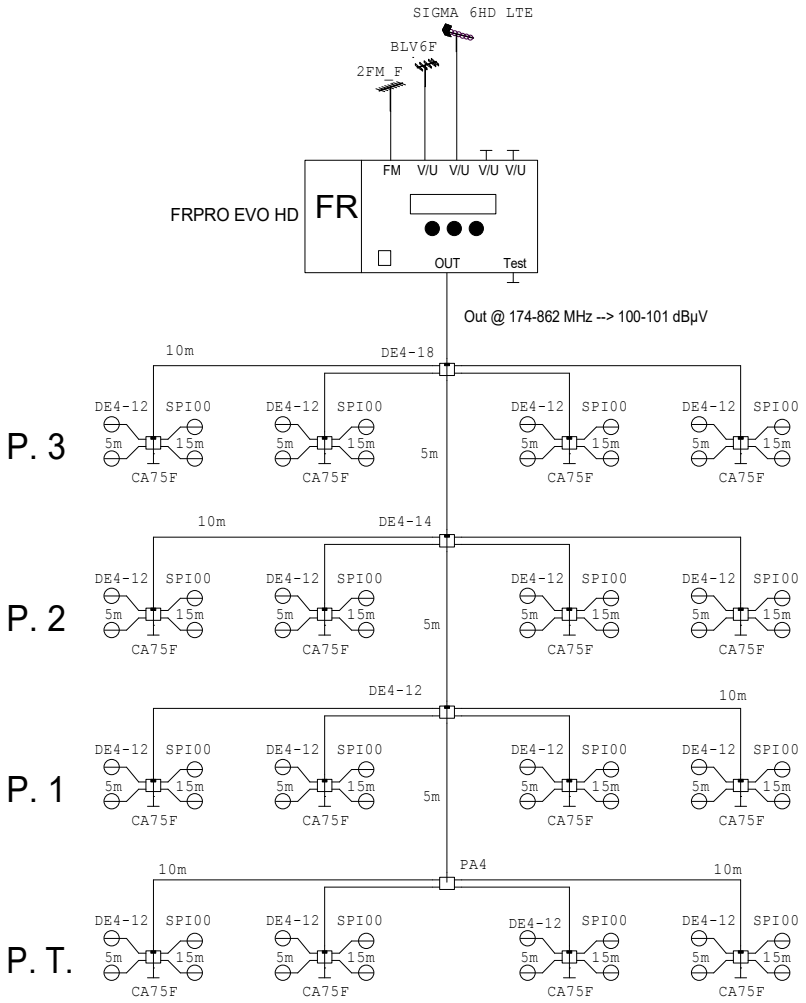
FRPRO EVO HD (*)		
Fracarro code		287434
Input		
N° of inputs	N°	4x VHF/UHF + 1x FM
Frequency range	MHz	FM: 88 – 108 VHF: 174 – 240 UHF: 470 – 862
Input level	dBµV	FM: 37 – 77 VHF: 40 – 109 UHF: 40 – 109
LTE protection	MHz	Automatic selection: 694, 790 or disabled
RF Output		
Output power	dBµV	FM: 113 (60dB/IM3) VHF/UHF: 120 (60dB/IM3) VHF/UHF: 113 (for 1 MUX) VHF/UHF 110 (for 6 MUX)
Gain (Adjustment)	dB	FM: 35 (20) VHF: >45 (auto AGC) UHF: >55 (auto AGC)
Output total adjustment	dB	20
Output total slope adjustment	dB	9
Selectivity	dB	35@1MHz
Typical output MER	dB	VHF: 35 UHF: 35
General Features (*)		
Power supply	Vac, Hz	100 – 240, 50/60
Power consumptions	W	16
Remote power supply	Vdc, mA	12 o 24, 100 total (for the 4 inputs)
Dimensions (L.× H.× W.)	mm	217x165x59
Operating temperature	°C	-5 ÷ +50
Weight	Kg	0.8

(*) Definitive specifications may change without notice.

Drilling template



Example of installation



FRPRO EVO HD is the ideal solution for distributing equalized and stabilized signals to all the TV sockets.

It is possible to enable the 12V or 24V remote power supply (selectable during headend configuration settings) on the VHF/UHF inputs to remote supply an external TV mast amplifier.

The **FRPRO EVO HD** compact digital processor adapts automatically the LTE (4G or 5G) filtering according to the RF channels processed by the UHF inputs

The settings, protected by secure PIN code, is quickly performed using the three buttons keyboard and the front display. The final configuration can be saved on an external SD Card memory (SD Card not included in the package).