High definition stand-alone modulator

Compact modulator which allows to introduce SD and HD video signals and audio into TV distributions with DDT format, in order to obtain a DVB-T or DVB-C output signal.

Maximum compression quality
MPEG2 & MPEG4/H.264

HDMI

HDMI input
High multimedia
interface

CVBS

CVBS inputs and
stereo audio

USB

Video playback
through USB port

Data sheet

Model MAC-HOME HD (4482)

Input		CVBS, HDMI
Video standard		PAL/NTSC/SECAM/B&W
Audio input		1 (mono and stereo)
Video		MPEG2 MP@ML, H.264/MPEG4 AVC MP L4.1
Video quality		SD, HD (480i, 576i, 480P, 576P, 720p50, 720p, 1080i50, 1080i60, 1080p60, 1080p50)
Maximum resolution		1080i60
Audio		MPEG2 L1/L2, LC-AAC, HE-AAC
Analogue audio		Yes
Digital audio		Yes (HDMI)
Audio output level (analogue)		0.5 - 2.5
DVB-T / DVB-C Output		DVB-T accordance with ETSI EN 300 744 DVB-C accordance with ETSI EN 300 429
Bandwidith	MHz	6/7/8
Number of carriers		2K (UK) / 8K (FR)
MER	dB	≥ 40
Frequency range	MHz	45 - 858
Outuput level	dBµV	≥ 80
Output attenuation	dB	1
Lever adjustment	dB	-25
Frequency stability	ppm	≤±30
Noise figure (ΔB = 8 MHz)		≤-60
Loopthrough frequency		45 MHz to 2.5 GHz
DVB-C symbol rate	Kbps	3000 - 8000
Constellation		DVB-T: 16QAM , 64QAM DVB-C: 16QAM , 32QAM , 64QAM , 128QAM , 256QAM
NIT adaptation		Yes (generated autimatically)
SDT adaptation		Yes (entering configurable name)
TS Monitoring		Yes
PSI/SI adaptation		Generation and insertion of tables PAT, PMT, SDT, NIT
Network configuration		NID, ONID, TSID, Network name, Provide
SID configuration		Yes
LCN processing		Yes
LCN modes		OFF,Europe,Independent Television Comision (UK), Nordig mode V1, Nordig mode V2, Generic Mode
Mains voltage	VAC	230 - 240
Firmware upgrade		Yes, web or USB interface
Flujo de salida IP		CBR / VBR
Direccionamiento IP		Unicast / Multicast
Protocolos		UDP / RTP
Formato encapsulado IP		SPTS
Diffserv QoS, TTL, VLAN		Sí
Anuncio SAP de servicios		Sí
Teclado		Joystick 5 posiciones
Web		Ethernet

The MAC HOME HD model is a standalone modulator unit which can handle different audio and video formats to make up a high-definition COFDM/QAM channel.

The unit has two types of non-simultaneous input:
• A CVBS analogue audio and video channel through RCA jacks.
• A digital audio and video channel in HDMI format through an HDMI connector.

With an MPEG2 encoding stage in SD and MPEG4/H.264 in HD and audio compression formats MPEG2 L1/L2, LC-AAC, HE-AAC.

The MAC HOME HD modulator also has a USB Interface to add new functions thanks to the evolving software of the unit, such as: video playback from a USB memory stick for digital signage and other possible future additions, along with firmware upgrades.

The MAC HOME HD unit can play back content from the HDMI or CVBS connector and the memory stick at the same time.

The modulator is programmed by the end user through an LCD display + 5-position joystick as a keypad.

This product aims to meet video signal distribution requirements in residential facilities, hotels and landmark buildings, along with video surveillance installations with COFDM/QAM digital TV modulation.

MAC-HOME HD

Example de application

USB PLAYER function

The MAC HOME HD modulator now has a new function to create and play back videos created by users with the software supplied with the product.

Users can create files containing images, videos and music in a simple and intuitive way, and play them on a television network such as a Service Channel (in communities of residents) or those designed for Digital Signage in countless applications, including advertising and information (hotels, restaurants, shopping centres, supermarkets, exhibition rooms, conferences, museums etc.).

After downloading and installing the "conversor-mac-installer.exe" application on their PC, users create a composition of images with audio that can be played back through the modulator's USB port.

Video and image files in the following formats are supported:

- Image: jpg, png, bmp, gif
- Video: wmv, mpg, mp4, ts, avi
- Audio: mp3

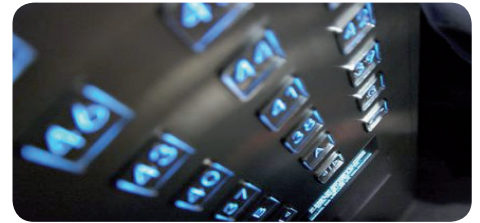The MAC HOME HD already sold can be updated from the website to offer this feature.

Easy set-up

• Drag the files to the "conversor-mac" application.

• Start the conversion process to generate a .ts video.

• Insert a USB flash drive with the video in the Mac Home, will start playing automatically.

• The video can be up to 40 minutes in length and played on a loop.

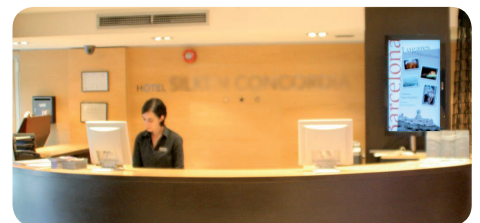**Create your own advertising and information channel with your MAC HOME HD.**

... for communities of residents
an information channel on their television

... for restaurants
information about daily menus, special deals, etc

... for hotels
meeting rooms, exhibitions, messages, etc

... for Public Spaces
advertising, user information, news, etc

... for shopping centres
new collections, special deals, etc

Creating a channel with the MAC HOME HD is as easy as copying a video to a USB drive and connecting it to the computer.

MAC-HOME HD

Application examples

• Application in residential facilities, hotels, landmark buildings or video surveillance installations.

in hospitals   in hotels   in restaurants   in museums   in business

• Digital signage application. Allows any business to economically and straightforwardly generate its own advertising and information channel with the MAC HOME HD modulator.

MAC HOME HD (4482)
HD Stand Alone Modulator

HDMI   CVBS   USB   TV input   Output

Surveillance camera

MAC-HOME HD