

MAC HOME HD

High Definition Stand Alone modulator (DVB-T)

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



Maximum compression quality
MPEG2 & MPEG4/H.264



HDMI input
High multimedia
interface



CVBS inputs and
stereo audio



Video playback
through USB port



DVB-T output

Main Features

| Model | MAC HOME HD | |
|-----------------------------------|---|---------------|
| Ref. | 4482 | |
| Video input | 2 (non-simultaneous) | |
| Input format | CVBS, HDMI | |
| Input level (CVBS) | Vpp | 0.7 - 1.4 |
| Input Impedance (CVBS) | Ω | 75 |
| Video standards | PAL / SECAM / NTSC / B&W | |
| Audio input | 1 (Mono or Stereo) | |
| Analog audio | Yes | |
| Digital audio | Yes (HDMI) | |
| Audio input level (analog) | Vpp | 0.5 - 2.5 |
| Compression | | |
| Video | MPEG2 MP@ML, H.264/MPEG4 AVC MP L4.1 | |
| Audio | MPEG2 L1/L2, LC-AAC, HE-AAC | |
| Video quality | SD, HD (480i, 576i, 480p, 576Pp, 720p50, 720p60, 1080i50, 1080i60) | |
| Max resolution | 1080i60 | |
| Standard COFDM | DVB-T according to ETSI EN 300 744 | |
| Bandwidth | MHz | 6 / 7 / 8 |
| Number of carriers | 2K / 8K | |
| MER | dB | ≥ 40 |
| Frequency range | MHz | 47 - 862 |
| Output level | dB μ V | ≥ 80 |
| Output loop attenuation | dB | 1 |
| Impedance | Ω | 75 |
| Level adjustment | dB | -25 |
| Frequency stability | ppm | $\leq \pm 30$ |
| Spurious in band | dBc | ≤ -50 |
| Noise level ($\Delta B = 8$ MHz) | dBc | ≤ -60 |
| Loophrough Frequency | 45 MHz to 2.5 GHz | |
| Processing | | |
| NIT Adapted | Yes (automatically generated) | |
| SDT Adapted | Yes (entering configurable name) | |
| TS monitoring | Yes | |
| PSI/SI Adapted | Generation and insertion of tables PAT, PMT, SDT, NIT | |
| Calculating the output bitrate | Yes | |
| Network configuration | NID, ONID, TSID, Network name, Provider | |
| SID configuration | Yes | |
| LCN processing | Yes | |
| LCN modes | OFF, Europe, Independent Television Commission (UK), Nordig mode V1, Nordig mode V2, Generic Mode | |
| General | | |
| Supply voltage | 230 - 240 VAC | |
| Consumption | 14 W | |
| Operating temperature | 0 to 45 °C | |
| Firmware updates | Yes, via USB | |
| Video playback through USB port | Yes | |
| Interface | | |
| LCD display | 16x2 characters | |
| Programming button | Joystick 5 positions | |

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 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 digital TV modulation.

SIGNALS SOURCES

Blu-Ray



DVB play channel



IRD satellite channel



Video surveillance channel



Advertising channel



USB channel



Application examples



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.

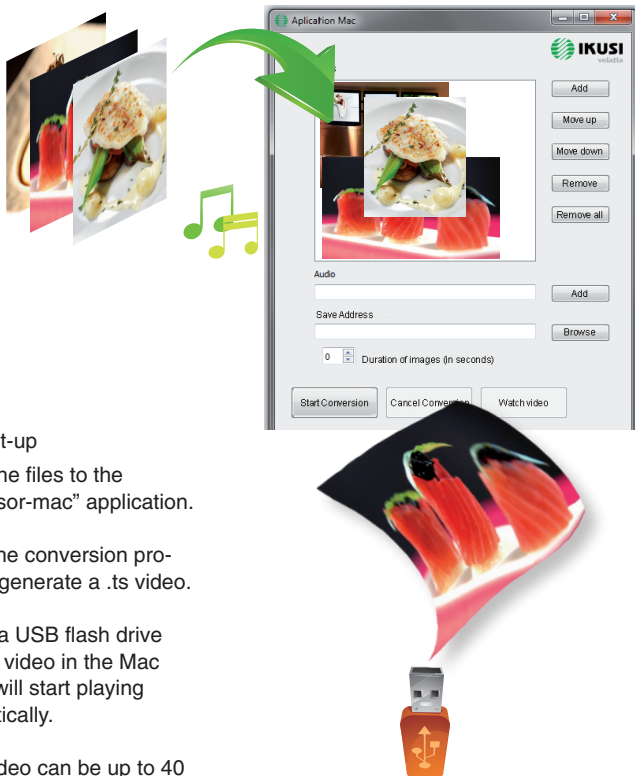
Users can create files containing images, videos and music in a simple and intuitive way, and play them on a television network such as a Service Channel (in communities of residents) or those designed for Digital Signage in countless applications, including advertising and information (hotels, restaurants,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

After downloading and installing the “converter-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 “converter-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



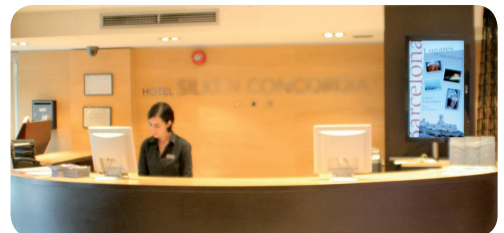
... for restaurants

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



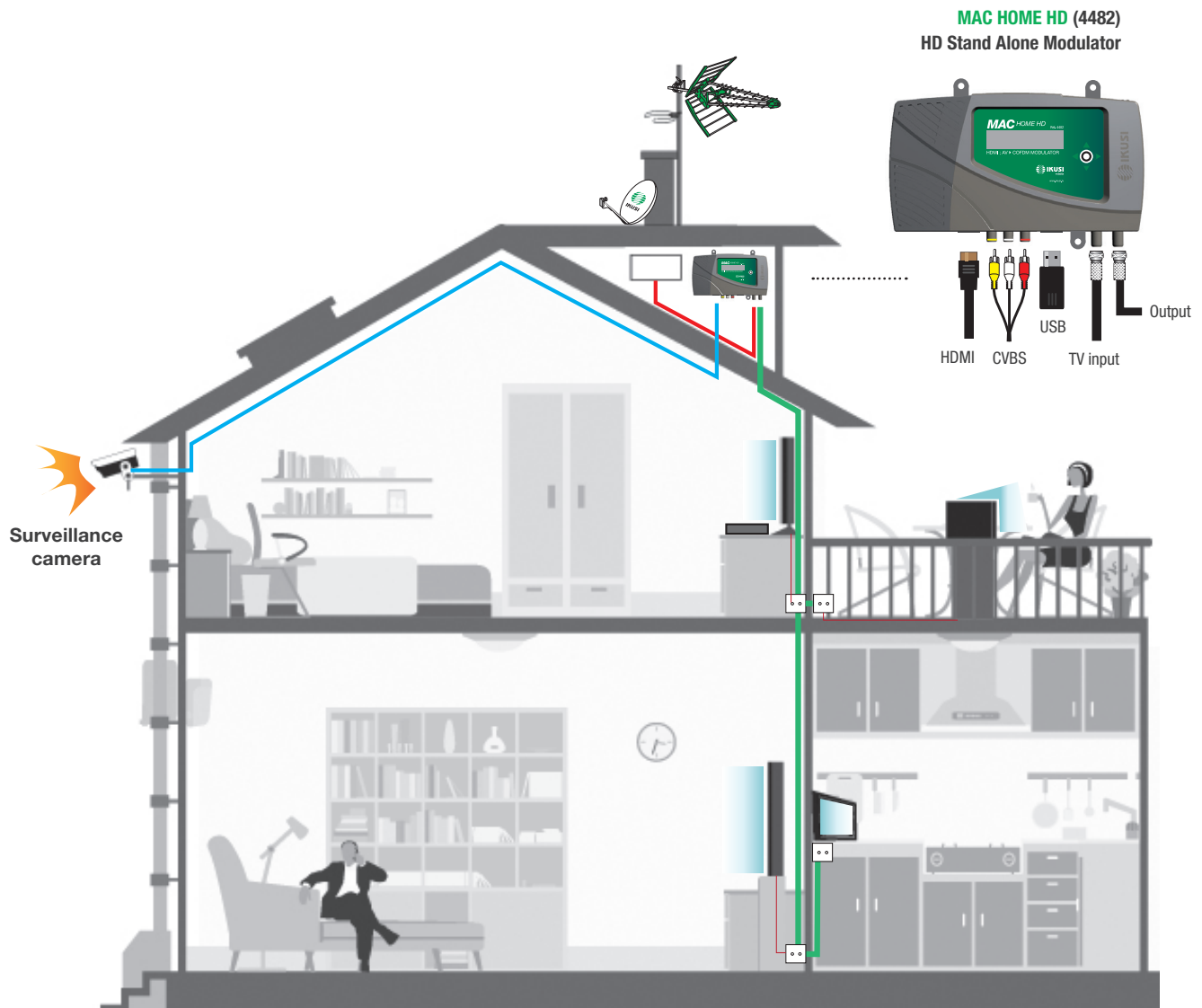
Creating a channel with the MAC HOME HD is as easy as copying a video to a USB drive and connecting it to the computer.

Application examples

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



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



HEADQUARTER

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