

MHD-202

Class A
High definition
Dual modulator

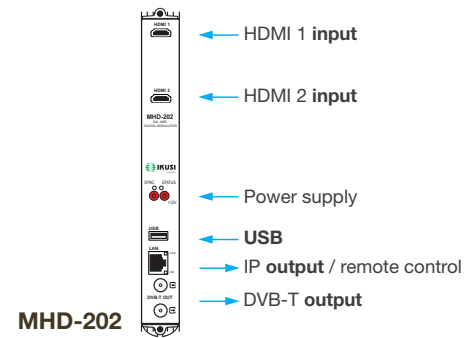
Sends HD signals to TV sets using DVB-T and IP standards.
Input : 2x HDMI
Output 1 COFDM : HDMI 1+USB
Output 2 COFDM : HDMI 2



Product compatible with:
Ikusi Headend Discovery

Main Specifications

Model	MHD-202	
Ref.	3855	
Inputs	2 HDMI 1 + HDMI 2	
Video compression	MPEG2 MP@ML, H.264/MPEG4 AVC MP L4.1	
Audio compression	MPEG1 layer II, MPEG2_LE_ACC, MPEG4_HE_AAC	
Video quality	SD and HD (480i, 576i, 480p, 576p, 720p50, 720p60, 1080i50, 1080i60, 1080p50, 1080p60)	
Maximum resolution	1080p60	
DVB-T output		
Standard	DVB-T in accordance with ETSI EN 300 744	
Bandwidth	MHz	6 / 7 / 8
Number of carriers		2K / 8K
RF carriers		2 (one per HDMI input)
MER	dB	≥ 40
Frequency band	MHz	45 - 862
Output level	dBμV	≥ 80
Output attenuation per step	dB	0.5
Level adjustment	dB	-25
Frequency stability	ppm	≤±30
Spurious emissions in band	dBc	≤-60
Noise figure (ΔB = 8 MHz)	dBc	≤-65
Loophrough frequency	45 MHz to 2.5 GHz	
IP output		
Interface	IEEE 802.3 10/100 Base-T	
IP encapsulation type	According to ETSI TS 102 034 v1.31(2007-10) and SMPTE ST 2022-2:2007	
IP output stream	CBR/VBR	
IP addressing	Unicast/Multicast	
Protocols	UDP/RTP	
IP encapsulation format	SPTS	
Diffserv QoS	Yes	
Time To Live (TTL)	Yes	
VLAN Tagging	Yes	
SAP services announcement	Yes	
DVB Signalling	PAT, PMT, SDT, TDT, TOT	
General		
Web interface	Ethernet	
NIT and SDT adaptation	Yes	
PSI/SI adaptation	Generate and insert PAT, PMT, SDT, NIT tables	
TS monitoring	Yes	
Network configuration	NID, ONID, TSID, Network name, Provider	
SID configuration	Yes	
LCN, TDT, TOT processing	Yes	
Edit channel name (EIT)	Yes (e.g. "pool camera")	
Edit description of the event (EIT)	Yes (e.g. "pool open from 9 a.m. to 6 p.m.")	
Supply voltage	VDC	+12
Consumption	A	1.9
Firmware upgrade	Web interface	
USB channel playback	Yes	
Dimensions	mm	230 x 195 x 32



Services combinations at DVB-T output:

- Output modulator 1 : HDMI 1 or HDMI 1 + USB
- Output modulator 2 : HDMI 2

Key Features

The **MHD-202** is a module designed in-house and manufactured with our own technology, capable of modulating two HD audio and video sources to make up one or two high definition RF output channels (in accordance with the input bitrate) in DVB-T and in IP which can be active simultaneously.

- The unit is fitted with two HDMI digital audio and video inputs through HDMI connectors.
- The output stage is capable of generating two RF channels, one for each HDMI input.

This product aims to meet video signal distribution requirements in residential facilities, hotels and unique buildings, along with video surveillance installations.

- Moreover, the MHD-202 has a USB interface for automatic playback of SD and HD content from a pendrive.

This function allows applications such as:

- use in digital signage,
- creation of an information channel,
- integration of any video source in the existing TV network.

- The modulator is programmed by the end user using a local or remote web interface through an RJ-45 connector.



This modulator is compatible with the application for PC:

“IKUSI HEADEND DISCOVERY”
(can be downloaded from <http://customerarea.ikusitv.com>).

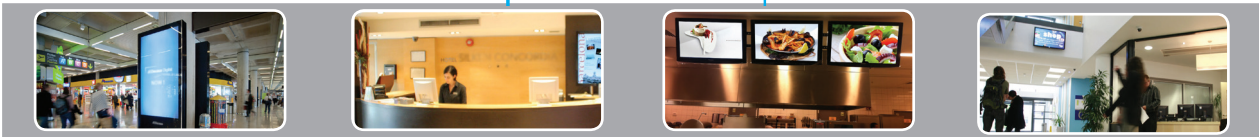
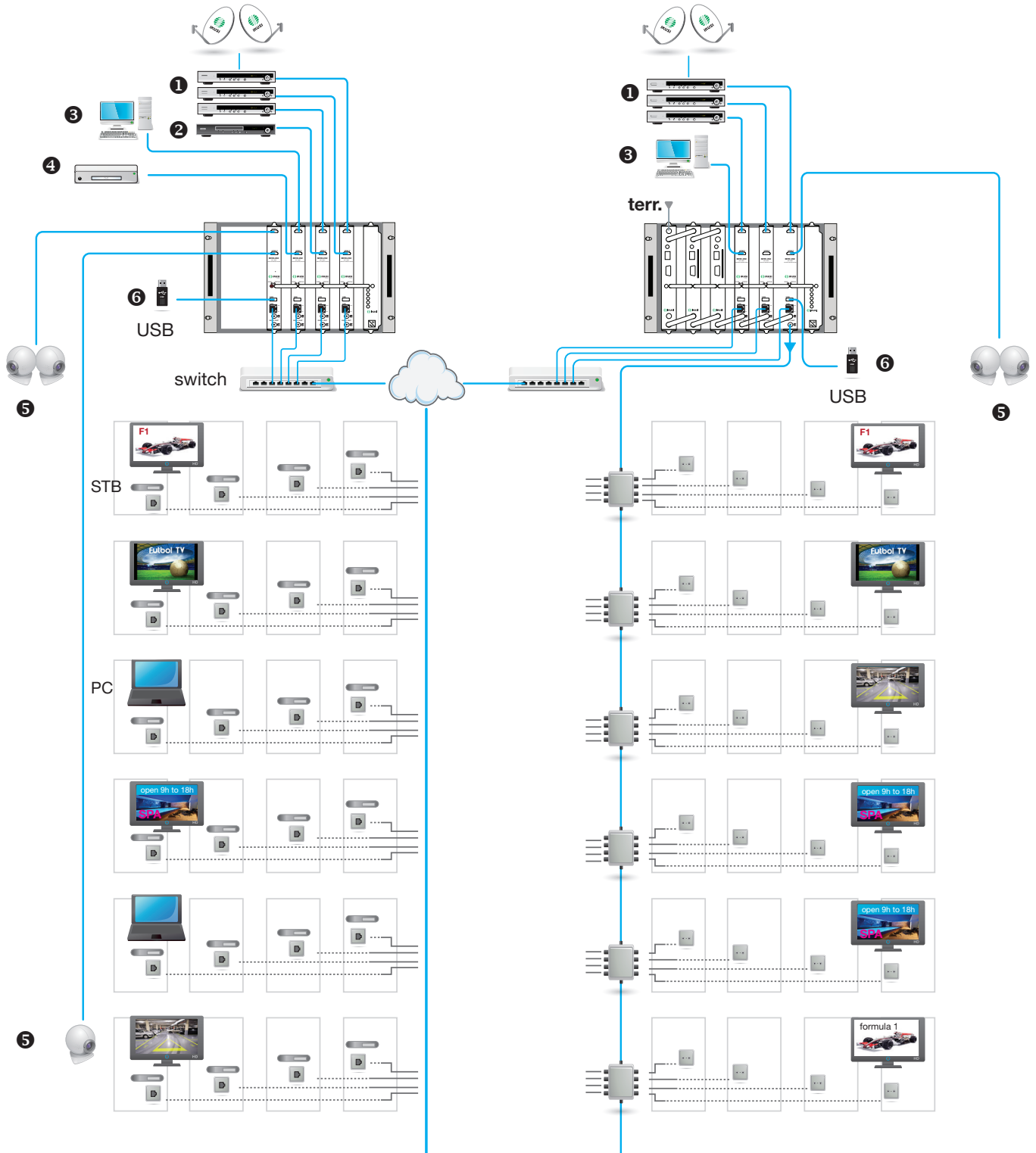
This tool allows the installer to detect the headend modules without having to modify the PC network card.

The MHD-202 professional modulator has a format which allows integration in any ClassA headend installation in a 19" rack or wall mount with high density.

- ①. Satellite channel
- ②. Blu-ray channel
- ③. Information channel
- ④. DVD signal channel
- ⑤. Surveillance video channel
- ⑥. Advertising video channel

IP output

DVB-T and IP output



Advertising video channel. Used to generate an information and advertising channel easily and inexpensively.

HEADQUARTERS

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