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
- Loopthrough 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, TOT, 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 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.

"IKUSI HEADEND DISCOVERY" (can be downloaded from http://customerarea.ikusi.tv).

This modulator is compatible with the application for PC.
Advertising video channel. Used to generate an information and advertising channel easily and inexpensively.