

Multi-Format Audio Monitoring System

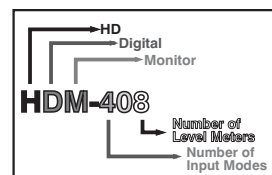


HDM-408

- This is the professional audio decoder and monitoring equipment to be user-friendly to consider a new HD production and environment. It is capable of processing the high quality Audio monitoring Dolby E, Dolby Digital (AC3), HD/SD-SDI Embedded Audio Digital AES/EBU and Analog Audio signal.

Features

- Multi-Audio Monitoring as a Whole-in-One.
- Ability to monitor all kinds of Audios (Dolby E, Dolby Digital Ac3, HD/SD-SDI embedded audio, Digital AES/EBU Analog Audio, etc).
- High quality Production processing, not a simple monitoring.
- User-friendly equipment by a remote control based on IP to support SNMP.
- User-friendly button designed on the front panel.
- Using a control button to choose the woofer or center.



<Ordering information>

- [HDM-408 D](#)
- [HDM-408 D/A](#)
- [HDM-408 HD](#)
- [HDM-408 DOLBY](#)
- [HDM-408 HD DOLBY](#)

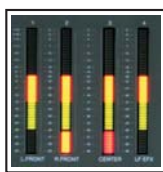
Specifications

- 2 Channel HD/SD-SDI preset based audio De-embedder(16channel).
- 2 Channel HD/SD-SDI audio de-embedder PCM on 1/2 dolby E on 3/4.
- 2 Channel Dolby E and dolby digital(AC3) decoder stand alone or add-on.
- 4 Channel Digital(Unbalanced75Ω/Balanced110Ω) audio.
- 8 Channel Analog audio.
- Premium quality drivers and power amplifiers.
- Audio Level meters 8x53-segment.
- Audio Level meters Dynamics VU and PPM.
- 8x53-segment Tri-Color LED bar graphs displaying.
- Phase-Correlation LED display.
- Front panel summing of any combination up to 16 channels to the left and/or right speaker.
- Center speaker for woofer or center.
- Left/Right power speaker(4Ω 20W~25W).
- Center Speaker for Woofer or Center(4Ω 20~25W).
- Left, Right, Center Adjustable volume.
- Audio Level adjustable.
- SNMP LCD control panel.
- Rack controllers SNMP compatible(TCP/IP).
- Headphone Jack, Mutes Speakers.
- 19" Standard Rack Mountable(2RU).
- Remote Control.

Highlights



Speaker



LED Bar



Synapse Control



HD/SD-SDI Preset based Audio De-embedder

- HD/SD-SDI Embedded Audio Input .
- HD/SD-SDI Reclocked Output .
- HD/SD-SDI Processed Output (De-Embedder) .
- Independent Dolby E input .
- Compatible with Dolby digital(AC3) input .
- Monitor output can be used for Dolby E, PCM from channel 3/4 of bus .
- 4 Channel Digital(AES/EBU) Audio Input(75Ω Unbalanced) .
- 4 Channel Digital(AES/EBU) Audio Input(110Ω Balanced) .
- 4 Channel Digital(AES/EBU) Audio Output (75Ω Unbalanced or 110Ω Balanced) .
- 8 Channel Analog Audio Input(Balanced) .
- 4 Channel Analog Audio Output(Balanced) : Standard
- 8 Channel Analog Audio Output(Balanced) : Option.
- Ethernet (SNMP : TCP/IP)
- Remote (RS-422) .
- Remote (PC Software) .

Specifications for HDM-408

HD/SD Serial Video Input

Standard	625/50 or 525/59.94 SMPTE 259M-C (270Mb/s) with SMPTE 272M embedded audio SMPTE 292M (1.5Gb/s), SMPTE 260M, SMPTE 274M, SMPTE 296M, SMPTE 349M 1080i/59.94, 1080i/50, 720p/59.94, 720p/50
Equalization	Automatic to 100m @ 1.5Gb/s with Belden 1694A or equivalent cable.
Return Loss Input	> 15dB up to 1.5GHz 2

AES/EBU Audio Input (Dolby E)

Connector Standard	BNC or add-on bus SMPTE 276M for single ended synchronous or asynchronous PCM/AES
Number of Inputs	2
Sampling Rate	48 kHz Synchronous
Impedance Level	75Ω 0.2V to 1V nom

AES/EBU Audio Input

Connector Standard	BNC or D-sub AES-1992 for balanced synchronous or asynchronous PCM/AES, SMPTE 276M for single ended synchronous or asynchronous PCM/AES
Number of Inputs	4/4
Sampling Rate	32 kHz to 96 kHz
Sampling Rate(LED Bar)	32 kHz to 48 kHz
Resolution	24 bits
Impedance Level	110Ω or 75Ω 0.2V to 1V nom for BNC, 2V to 7V for balanced operation

Electrical & Mechanical

Input Voltage	100V - 240V AC
Frequency	50/60 Hz
Power	150 W

HD/SD Serial Video Output

Standard	Same as Serial Video Input
Signal Level	800mV nominal
DC Offset	0V ±0.5V
Rise/Fall Time	200ps nominal for HD, 750ps nominal for SD
Overshoot	< 10% of amplitude
Return Loss	> 15dB up to 10Gb/s, > 10dB up to 1.5Gb/s
Wideband jitter	< 0.2UI

AES/EBU Audio Output & Dolby Digital(AC3), Dolby E Output

Number of Outputs	5/4
Connector add-on bus	BNC and D-sub 15Pin
Resolution	1
Sampling Rate	24 bits
Nominal I/O Delay	Sampling Rate 48kHz synchronous 1 Frame

AES/EBU Audio Output

Number of Outputs	4
Connector	BNC or D-sub 15Pin
Resolution	24 bits

Analog Audio Input/ Output

Type	Balanced Analog Audio
Input impedance	10KΩ
Number IN/OUT	8/2/8 Channel(option)
IN/OUT Connector	D-SUB 25P Male/Femle
Frequency response	±0.2dB(20Hz ~ 20KHz)
Total Harmonic Distortion	0.05%(20Hz ~ 20KHz)
Signal-to-Noise Ratio	-75dB(20Hz ~ 20KHz)
Acoustic Distortion	8%

Dimension	482(W) X 88(H) X 345(D)mm
Weight	5.2Kg
Operating Temperature	0°C ~ 40°C