

UMA-D4CH-HD3G-Db

AUDIO MONITORING UNIT

8 CHANNEL VU-PPM AND BUILT-IN STEREO LOUDSPEAKER SYSTEM

Analog, AES/EBU and embedded 3G-HD-SD/SDI with Dolby(*) audio inputs and Analog, AES/EBU outputs

CROSSPOINT manufactures several models of Display for installation on TV monitoring panels. This 1RU audio monitor provides 8 audio channels of audio metering for analog, AES-EBU and/or embedded audio with Dolby(*) decoding in 3G-HD-SD/SDI signals. Internal stereo loudspeaker system allows any combination of audio inputs to be monitored.

The **UMA-D4CH-HD3G-Db** is housed in 19" 1RU chassis. Product features include:

- 2 x autosensing 3G-HD-SD/SDI video inputs with embedded audio
- (*)Dolby E and D+ decoding from embedded audio
- 8 x analog and digital AES/EBU audio channels
- Internal stereo loudspeaker system for quality monitoring
- 8 x channel VU-PPM metering selectable from any input
- 4 x stereo phase alarm indicators
- Analog and AES/EBU audio outputs, copied or de-embedded
- Stereo analog and AES/EBU line outputs with channel mix and variable delay



AUDIO METERING. The unit receives two 3G-HD-SD/SDI digital signals (SMPTE 259, 292 and 424M). It can process up to four groups of embedded digital Audio (SMPT 272M and 299M) from selected input and decoding Dolby E and D+. Active loop output from the selected autosensing 3G-HD-SD/SDI video input is equalized and reclocked. 4 AES/EBU digital audio pairs, 1 SPDIF/AES optical and 8 analog audio channels are also available. Audio levels are displayed over 4 + 4 vertical bar-graphs of tri-colored 26 steps LED bars, graded from 0dBFS to -60dBFS and -42VU to +18VU. Any input channel, both discrete or embedded, can be addresses to any bar-graph with simultaneous VU and PPM indication.

LOUDSPEAKER SYSTEM. Fitted with two middle-treble and one bass drivers in a carefully designed enclosure and powered by high quality amplifiers, for precise stereo sound monitoring.

AUDIO OUTPUTS. 8 output channels are simultaneously available, both in analog and AES/EBU domain, from any

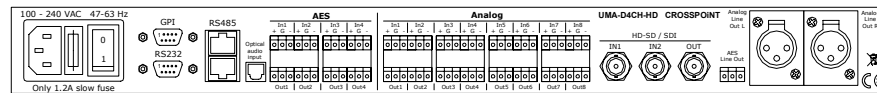
combination of selected analog, AES-EBU and 3G-HD-SD/SDI embedded audio inputs. Analog and AES/EBU line output from mixed input channels is also available at the unit rear. Internal audio processor allows for audio delay adjustment for up to 8 video frames. A headphone jack is available on the front panel.

ALARMS. Four red LEDs show stereo phase alarms state. Other audio alarms are indicated by changing bar-graphs colors. The AES and SDI streams are continuously analyzed to monitor selected audios triggering alarms when malfunction occurs. These alarms are available on the rear of the unit in the form of circuit closure.

CONTROL. Product provides easy, user friendly LCD displayed control by two front panel push-buttons and rotary knob. User's configurations remote selection.

This 1RU mountable chassis is fitted with 100VAC - 240VAC power input.

Rear view

**SPECIFICATIONS:**

Model:	UMA-D4CH-HD3G-Db
Video input:	2 x autosensing HD-SD/SDI Digital video (SMPTE 259M, 296M, 274M, 292M, 424M) with embedded audio (SMPTE 272M, 299M). Compatible with Dolby E and D+.
Video output:	1 x 3G-HD-SD/SDI Digital video with embedded audio, fully equalized and re-clocked copy from selected video input.
Digital audio input:	4 x balanced AES/EBU pairs and 1 x optical SPDIF.
Digital audio output:	4 x balanced AES/EBU pairs selected from any audio inputs.
Analog audio input:	4 x balanced analog stereo channels.
Analog audio output:	4 x balanced analog stereo channels selected from any audio inputs.
Line output:	1 x balanced AES/EBU pairs and 1 x balanced analog stereo channels selected/mix from up to 8 input channels: analog, AES/EBU and/or deembedded. Input-line output audio delay for up to 8 video frames.
Dolby(*):	Decode Dolby E and D+ from embedded 3G-HD-SD/SDI digital video. Start of Dolby E within the video frame measurement.
Loudspeakers system:	2 x Middle/treble and 1 x bass drivers.
Amplifiers:	2 x 10W , Middle/treble. 1 x 20W, Bass.
Headphones out:	¼" jack with loudspeaker auto switch off.
Audio level monitoring:	Simultaneous VU and PPM.
Scales:	-60dBFS to 0dBFS and -42VU to +18VU .
LED bar-graphs:	8 bars with 26 tricolor LEDs each.
Stereo Phase indicators:	4 red LEDs.
LCD/LEDs Brightness:	Manual adjustment in 12/16 steps, either from local panel or serial port.
Alarms:	Absent digital data, parity or validity, stereo phase inversion, overflow and silence.
Control:	LCD display, pushbuttons and rotary knob.
Communications:	RS485 port for multi-drop serial communication, 9600 baud, 8 bit data, 1 stop bit with no parity. RS232 port, 9600 baud, 8 bit data, 1 stop bit with no parity.
Connectors:	RS-485: 2 x RJ-11 looped. RS-232: 1 x Sub-D 9 pin male. GPI/O: Sub-D 9 pin male. Open collector, 100mA max. per output. Closed circuit to common ground for input. Video: 3 x BNC, (2 input and 1 output). Digital audio and Analog audio: Removable "Phoenix" style connector. Headphone ¼" jack.
Power Supply:	100VAC - 240VAC, 47Hz-63 Hz.
Power Consumption:	max 40 VA.
Size:	Width, 19". Height, 42 mm (1RU). Depth, 330 mm. (excluding connectors).
Weight:	5 Kg.

(Specifications subject to change without prior notice). (*) Dolby is a trademark from Dolby Laboratories

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