

IPA-D1CH-F-AES IPA-D2CH-F-AES

BAR-GRAPHS AUDIO MONITORING DISPLAYS

WITH CORRELATION AND ALARMS

AES/EBU digital audio version

CROSSPOINT manufactures several models of Display for installation on TV monitoring panels. These Displays are designed for use in control rooms where different video and audio signals have to be presented and identified in a clear and simple manner. Situations like Tally and audio alarms are also signaled.

The **IPA-D1CH-F-AES** and **IPA-D2CH-F-AES** models combine, in a single unit, the following features:

- **2 - 4 channel digital audio metering**
- **Single or dual Phase meter**
- **Audio alarms output**
- **RS-485 network remote control capability**



IPA-D1CH-F-AES



IPA-D2CH-F-AES

AUDIO METERING. Model **IPA-D1CH-F-AES** receives one AES pair digital audio signals and displays two PPM-meter type indications plus the Stereo Phase meter. Model **IPA-D2CH-F-AES** receives two AES pairs digital audio signals and displays four PPM-meter type indications plus two Stereo Phase meters. Audio levels are presented over 3/6 horizontal bars, LED-type, with 16 steps, graded from 0 dBFS to -40 dBFS for the PPM-meter type indicators and from -1 to +1 on Phase-meters.

ALARMS. The audio AES streams are continuously analyzed to monitor selected audios and generate alarms when malfunction occurs. Digital Stream failure, Overflow, Silence and inverted phase are the detected conditions.

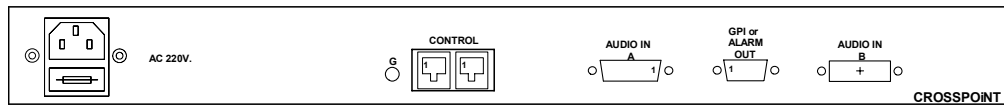
These alarms are available on the rear of unit in the form of circuit closure and over the multi-point RS485 link.

Alarm outputs can be centralized both in parallel format (relay closure) and in serial format in a custom-designed controller. Having alarms centralized in serial format allows a connection to automatic "login" systems, remote sending to other control rooms, etc.

CONTROL. Brightness level and all other functions can be controlled with the push-buttons on their front panel or via RS485 serial port.

These units fits in a standard 19" rack using 1RU. It is power supplied directly from the 230VAC mains.(110 VAC optionally).

Rear view



SPECIFICATIONS:

Models:	IPA-D1CH-F-AES IPA-D2CH-F-AES
Input audio:	One digital AES/EBU pair, IPA-D1CH-F-AES Two digital AES/EBU pair, IPA-D2CH-F-AES
Input impedance:	110 Ohms, transformer isolated.
Metering:	Peak meter and Correlation (Stereo phase)
Level measurement:	From 0 dBFS to -40 dBFS.
Rise / Decay time::	Instantaneous / -20db/sec.
Phase Measurement:	Correlation (Stereo Phase): -1 to +1.
LED bar-graphs:	3 with 16 tricolor LEDs each, IPA-D1CH-F-AES . 6 with 16 tricolor LEDs each, IPA-D2CH-F-AES.
Detected alarms:	Absence of digital data, parity or validity. Overflow Silence: Audio level below -20dBm for more than 10 secs., programmable. Inverted Phase: Inverted phase (negative Correlation) for more than 10 secs.
Brightness control:	From 1 to 100 in 99 steps, using front panel push-buttons or serial port.
Communications:	RS485 port for multi-drop serial communication, 9600 baud, 8 bit data, 1 stop bit with no parity.
Connectors:	RS-485: 2 x RJ-11 looped. GPIO: Sub-D 9 pin male. Open collector, 100mA max. per output. Closed circuit to common ground for input. Audio: 2 x Sub-D 15 pin.
Power Supply:	230 VAC, 47-63 Hz. (optionally 110 VAC)
Max. Consumption:	20 VA.
Size:	Width, 19". Height, 1RU (42 mm). Depth, 125 mm. (without connectors).
Weight:	2,4 Kg.

(Specifications subject to change without prior notice)

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