

IPA-D1CH-F IPA-D2CH-F

BAR-GRAPHS AUDIO MONITORING DISPLAYS WITH CORRELATION AND ALARMS

Analog audio version

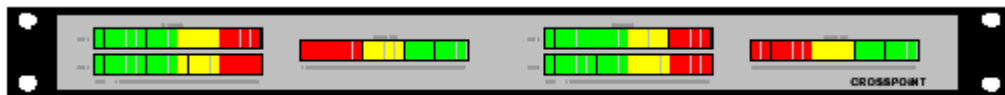
CROSSPOINT manufactures several models of Display for installation on TV monitoring panels. These Displays are designed for use in control rooms where different video and audio signals have to be presented and identified in a clear and simple manner. Situations like Tally and audio alarms are also signaled.

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

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



IPA-D1CH-F



IPA-D2CH-F

AUDIO METERING. Model **IPA-D1CH-F** receives two analog audio signals and displays two VU-meter type indications plus the Stereo Phase meter. Model **IPA-D2CH-F** receives four analog audio signals and displays four VU-meter type indications plus two Stereo Phase meters. Audio levels are presented over 3/6 horizontal bars, LED-type, with 16 steps, graded from -20 to $+4$ VU for the VU-meter type indicators and from -1 to $+1$ on Phase-meters.

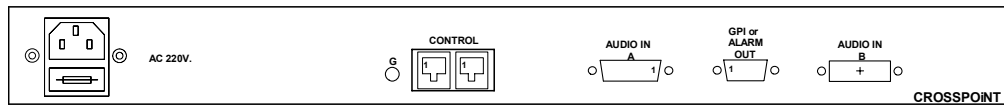
ALARMS. Audio channels are continuously analyzed to generate alarms when malfunction occurs. Silence and inverted phase are the detected conditions. These alarms are available on the rear of unit in the form of circuit closure and over the multi-point RS485 link.

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 IPA-D2CH-F
Input audio:	Two analog audio channels, IPA-D1CH-F Four analog audio channels, IPA-D2CH-F
Input impedance:	>10 KOhms.
Metering:	Vumeter/Peak meter and Correlation (Stereo phase)
Level measurement:	-20 to +4 VU.
Reference level:	0VU= +4dBm
Phase Measurement:	Correlation (Stereo Phase): -1 to +1.
LED bar-graphs:	3 with 16 tricolor LEDs each, IPA-D1CH-F . 6 with 16 tricolor LEDs each, IPA-D2CH-F.
Detected alarms:	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. GPI/O: 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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