

**IPA-D4CH-SDI
IPA-T4CH-SDI, IPA-T4CH-SDI-DA
IPA-D4CH-SDI-H, IPA-D4CH-SDI-DA**

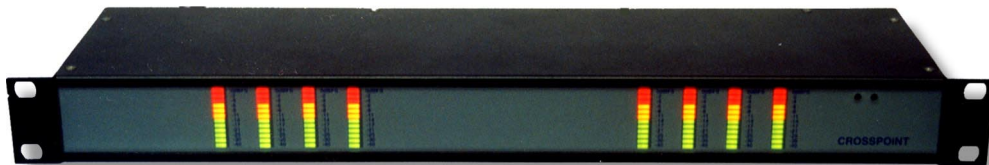
BAR-GRAPH AUDIO MONITORING DISPLAYS

8 or 12 CHANNEL AUDIO LEVEL METERS
SDI embedded digital audio version

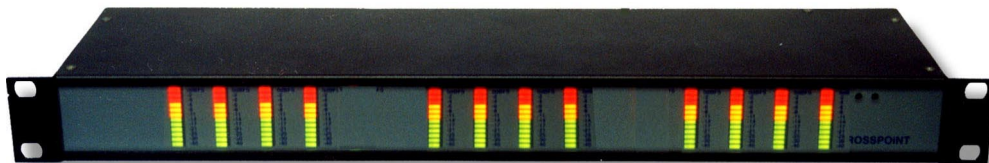
CROSSPOINT manufactures several models of Display for installation on TV monitoring panels. These Displays are designed for use in control rooms where different video and audio signals have to be presented and identified in a clear and simple manner. IPA models are designed to display the level of audio channels that, depending on models, can be either analog, AES/EBU or embedded audio in SDI. Versions with Video digital to analog internal converters also available.

The **IPA-D4CH-SDI**, **IPA-T4CH-SDI** and **IPA-D4CH-SDI-H** models combine, in a single 1 RU unit, the following features:

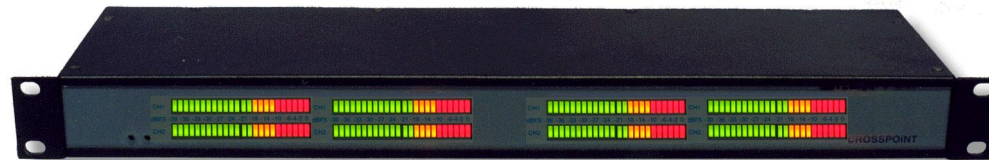
- **2 or 3 SDI video inputs with embedded audio**
- **8 or 12 channel digital embedded audio metering**
- **Audio alarm signaling**
- **RS-485 network remote control capability**



IPA-D4CH-SDI



IPA-T4CH-SDI, IPA-T4CH-SDI-DA



IPA-D4CH-SDI-H, IPA-D4CH-SDI-H-DA

AUDIO METERING. These models receives 2 or 3 x SDI digital signal (SMPTE 259M), and can process 8 or 12 groups of embedded digital Audio (SMPT 272M). Level of selected audio channels are displayed over 8 (IPA-D4CH-SDI) or 12 (IPA-T4CH-SDI) vertical bar-graphs of tricolored LED type with 12 steps, graded from 0dBFS to -40dBFS, or over 8 horizontal bar-graphs of tricolored LED type, with 24 steps, graded from 0dBFS to -40dBFS (IPA-D4CH-SDI-H). All models has an active loop output from each SDI input, with equalization and clock regeneration. The audio signal is taken directly from a SDI signal, and it is possible to select the audio group and channel to be displayed on each bar.

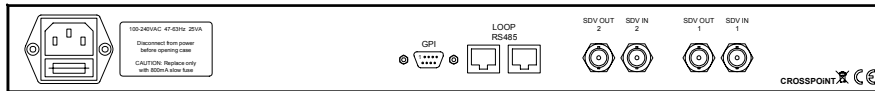
DIGITAL TO ANALOG CONVERSION. Models IPA-D4CH-SDI-H-DA and IPA-T4CH-SDI-DA has internal D/A converters providing analog composite PAL/NTSC video signals, with automatic detection. You save money using cheap analog picture monitors instead the expensive ones with SDI input.

ALARMS. The SDI stream is continuously analyzed to monitor selected audios and generate alarms when malfunction occurs. Absence of digital data, Overflow and silence are the detected conditions. Alarms are indicated using the color change ability of the bars. These alarms also are available on the rear of unit in the form of circuit closure and over the multi-point RS485 link.

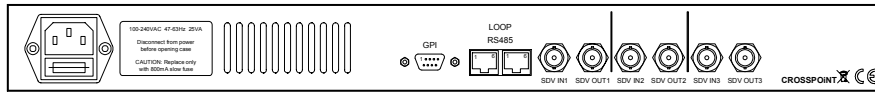
They can be centralized both in parallel format (relay closure) and in serial format in a custom-designed controller. Having alarms centralized in serial format allows a connection to automatic "login" systems, remote sending to other control rooms, etc.

CONTROL. Their 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 100-240 VAC mains. Except IPA-D4CH-SDI for 230VAC mains.(110 VAC optionally).

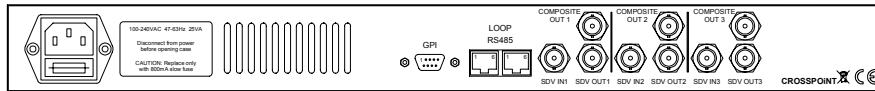
Rear view



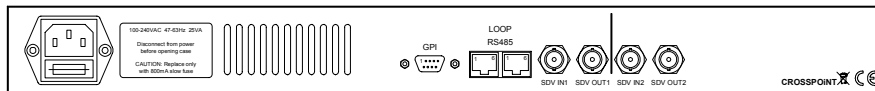
IPA-D4CH-SDI



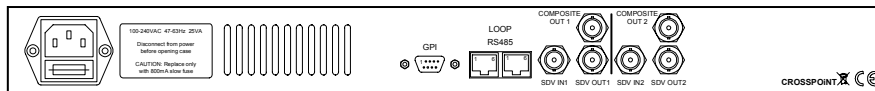
IPA-T4CH-SDI



IPA-T4CH-SDI-DA



IPA-D4CH-SDI-H



IPA-D4CH-SDI-H-DA

SPECIFICATIONS:

Models:	IPA-D4CH-SDI IPA-T4CH-SDI, IPA-T4CH-SDI-DA IPA-D4CH-SDI-H, IPA-D4CH-SDI-H-DA
Input digital video:	SDI Digital video(SMPTE 259M) with embedded audio (SMPTE 272M), 2 in (IPA-D4CH-SDI, IPA-D4CH-SDI-H), 3 in (IPA-T4CH-SDI).
Output digital video:	SDI Digital video(SMPTE 259M) with embedded audio (SMPTE 272M), copy fully equalized and reclocked, for each SDI input.
Output analog video:	2 x 1 Vpp. PAL(625/50) ó NTSC(525/60), autodetect. (IPA-D4CH-SDI-H-DA). 3 x 1 Vpp. PAL(625/50) ó NTSC(525/60), autodetect. (IPA-T4CH-SDI-DA).
Audio Measurement:	SDI Embedded audio level, peak-meter type.
Scale:	0 dBFS to -39dBFS.
LED bar-graphs:	8 with 12 tricolor LEDs each, 31x5 mm vertical (IPA-D4CH-SDI). 8 with 24 tricolor LEDs each, 62x5 mm horizontal (IPA-D4CH-SDI-H). 12 with 12 tricolor LEDs each, 31x5 mm vertical (IPA-T4CH-SDI).
Brightness:	From 1 to 100, adjustable in 99 steps, through push-bottoms and serial port.
Detected alarms:	Absence of digital data, parity or validity. Overflow, Silence.
Communications:	RS485 port for multi-drop serial communication. It allows parameters modification and alarm reporting through network.
Connectors:	RS-485: 2 x RJ-11 looped. GPI/O: Sub-D 9 pin male. Open collector, 100mA max. per output. Video: 4 BNC(IPA-D4CH-SDI, IPA-D4CH-SDI-H), 6 BNC(IPA-D4CH-SDI-H-DA, IPA- T4CH-SDI) and 9 BNC(IPA-T4CH-SDI-DA).
Power Supply:	100 - 240 VAC, 47-63 Hz. IPA-D4CH-SDI , 230 VAC, 47-63 Hz. (optionally 110 VAC).
Max. Consumption:	20 VA.
Size:	Width, 19". Height, 1RU (42 mm). Depth, 200 mm. (without connectors).
Weight:	2,4 Kg.

(Specifications subject to change without prior notice)

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