

DBM-10IPA-SDI-PAL**COMBINED UNDER MONITOR DISPLAY****TEXT, AUDIO METERS, PAL/NTSC OUTPUT AND ANALOG AUDIO OUTPUT**

SDI embedded digital audio version with PAL/NTSC output and optional analog audio output

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 **DBM-10IPA-SDI-PAL** model combine, in a single unit , the following features:

- **Single text message display**
- **Dual independent TALLY lights**
- **4 channel digital audio metering with audio alarm signaling**
- **SDI video to composite PAL/NTSC conversión**
- **Digital to analog quad embedded audio converter, optional**
- **RS-485 network remote control capability**



AUDIO METERING. The unit receives an SDI digital signal (SMPTE 259), and can process the four groups of embedded digital Audio (SMPT272M). They have an active loop output from the SDI input, with equalization and clock regeneration. Audio levels are displayed over 4 horizontal bar-graphs of tricolored LED type, with 24 steps, graded from 0dBFS to -39dBFS. Alarms are indicated using the color change ability of the bars. The audio signal is taken directly from an SDI signal, and it is possible to select the audio group and channel to be presented on each bar. The SDI stream is continuously analyzed to monitor selected audios and generate alarms when malfunction occurs. These alarms 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.

DIGITAL TO ANALOG CONVERSION. An internal D/A converter provides an analog composite PAL/NTSC video signal, with automatic detection. You save money using cheap analog picture monitors instead the expensive ones with SDI input.

Optionally, an internal audio digital to analog converted can be supplied. Four channels of analog audio are converted from the embedded SDI signal and are available at the output for monitoring purposes (order model DBM-10IPA-SDI-PAL/A).

TEXT & TALLY. Text display is clear and auto-centered. Brightness level is user-programmable from 1 to 100, which allows adapting the brightness level to the actual lighting of the room. The indication of active Tally situation is performed by large LED lamps which not only highlight text brightness to a level –also programmable–, but give a very clear indication of the signal “on the air”. Having two colors for Tally it is possible also to indicate audio alarms, etc., very clearly.

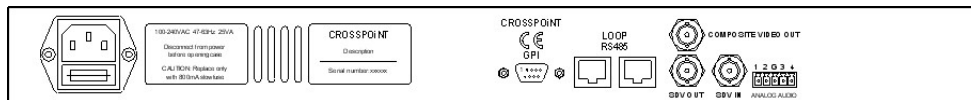
This type of Tally indication is so bright that monitors without Tally lights can be used, again reducing expenses, since usually this type of monitor has a markedly lower price. You will also save in cable and connectors, as there is no need to link up each Display to its associated video monitor.

CONTROL. Their functions can be controlled with the push-buttons on their front panel or via RS485 serial port.

Using **CROSSPOINT**'s HUB-DSP controller, it is possible to modify texts on the displays quickly –in less than 10 seconds— without the intervention of specially trained operators. It also allows to configure (depending on the options) the remote conveying of Tally to the displays, their mapping from the keyboard, delivering time signal, relay-mapped tally output (for CCU, ...), dynamic following of routing switchers' status, reception of tally in serial format or saving user's set-ups protected by password and easily restored.

This unit is power supplied directly from the 100 - 240VAC mains.

Rear view

**SPECIFICATIONS:**

Model:	DBM-10IPA-SDI-PAL DBM-10IPA-SDI-PAL/A.(Includes optional output analog audio).
Input video:	SDI Digital video(SMPTE 259M) with embedded audio (SMPTE 272M).
Output video:	SDI Digital video(SMPTE 259M) with embedded audio (SMPTE 272M), copy fully equalized and reclocked.
Output analog video:	1 Vpp. PAL(625/50) or NTSC(525/60). Automatic detection.
Output Audio(optional):	4 unbalanced analog channels de-embedded from SDI input, DBM-10IPA-SDI-PAL/A
Text window:	10 matrix with 5x7 LED each, 17 mm height.
Brightness:	Two levels (normal and Tally), adjustable in 99 steps.
Memory:	Store 8 messages plus internal parameters and user setups.
TALLY:	Two TALLY lamps (red and green). When tally lights up, text brightness is highlighted.
Control of Tallies:	Over GPI or RS485 network.
Audio Measurement:	Embedded audio level, peak-meter type.
Scale:	0 dBFS to -39dBFS.
LED bar-graphs:	4 with 24 tricolor LEDs each.(62 mm width, 5 mm height).
Detected alarms:	Absence of digital data, parity or validity. Overflow. Silence.
Communications:	RS485 port for multi-drop serial communication, 9600 baud, 8 bit data, 1 stop bit with no parity. CROSSPOINT protocol. Other protocols available using the CROSSPOINT HUB-DSP controller.
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. Video: 3 x BNC. Analog audio(optional): Removable "Phoenix" style connector.
Power Supply:	100 - 240 VAC, 47-63 Hz.
Max. Consumption:	25 VA.
Size:	Width, 19". Height, 42 mm (1RU). Depth, 125 mm. (without connectors).
Weight:	2,1 Kg.

(Specifications subject to change without prior notice)

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