

**DBM-10IPA-AES
DBM-10IPA-F-AES
DBM-D9IPA-F-AES**

**COMBINED UNDER MONITOR DISPLAYS
SINGLE OR DUAL TEXT WITH AUDIO LEVEL METERS**

AES digital audio version, with and without Phase meter

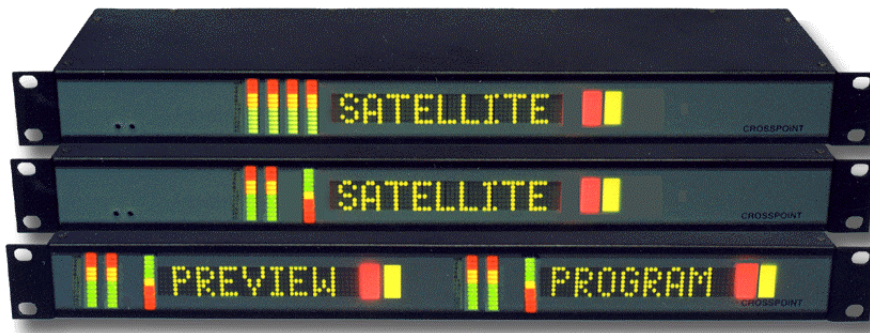
CROSSPOINT manufactures several models of Display for installation on TV monitoring panels. These Displays are designed for use in control rooms where different video and audio signals have to be presented and identified in a clear and simple manner. Situations like Tally and audio alarms are also signaled.

The **all three** models combine, in a single unit, the following features:

- **Single or dual text message display**
- **Dual independent TALLY lights per text**
- **4 channel digital audio metering with audio alarm signaling**
- **RS-485 network remote control capability**

The **DBM-10IPA-F-AES** and **DBM-D9IPA-F-AES** models adds the following feature:

- **Single or dual Phase meter**



AUDIO METERING. Model **DBM-10-IPA-AES** receives two AES pairs digital audio signals, and displays four PPM-meter type indications. Model **DBM-10-IPA-AES-F** receives one AES pair digital audio signal, and displays two PPM-meter type indications and a phase indicator. Model **DBM-D9-IPA-AES-F** receives two AES pair digital audio signals, and displays 2+2 PPM-meter type indications and 1+1 phase indicators. Audio levels are presented over 2/4 vertical bars, LED-type tricolored, with 12 steps, scaled from 0dBFS to -40dBFS for the PPM-meter type indicators and from -1 to +1 on Phase-meters. The AES 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.

TEXT & TALLY. Text displays 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.

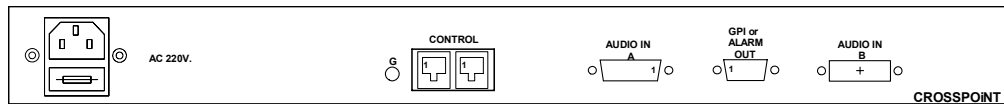
This type of Tally indication is so bright that monitors without Tally lights can be used, again reducing expenses, since usually this type of monitor has a markedly lower price. You will also save in cable and connectors, as there is no need to link up each Display to its associated video monitor.

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 230VAC mains.(110 VAC optionally).

Rear view



SPECIFICATIONS:

Models:	DBM-10IPA-AES DBM-10IPA-F-AES DBM-D9IPA-F-AES
Input audio:	2 x AES /EBU pair, DBM-10IPA-AES and DBM-D9IPA-F-AES. 1 x AES /EBU pair, DBM-10IPA-F-AES
Input impedance:	110 Ohm, transformer isolated.
Level measurement:	Digital AES audio level, peak-meter type.
Scale:	0 dBFS to -40dBFS.
Phase Measurement:	Correlation (Stereo Phase): -1 to +1.
LED bar-graphs:	4 with 12 tricolor LEDs each, DBM-10IPA-AES. 3 with 12 tricolor LEDs each, DBM-10IPA-F-AES. 3+3 with 12 tricolor LEDs each, DBM-D9IPA-AES.
Detected alarms:	Absence of digital data. Overload. Silence. Out of Phase.
Text window:	10 matrix with 5x7 LED each, 17 mm height. DBM-10IPA-AES and DBM-10IPA-F-AES 9+9 matrix with 5x7 LED each, 17 mm height. DBM-D9IPA-F-AES
Brightness:	Two levels (normal and Tally), adjustable in 99 steps.
Memory:	Store 8 messages per text shown plus internal parameters and user setups.
TALLY:	Two TALLY lamps (red and green) per text window. When tally lights up, text brightness is highlighted.
Control of Tallies:	Over GPI or RS485 network.
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. 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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