

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

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

Analog audio versions, with and without Phase meter

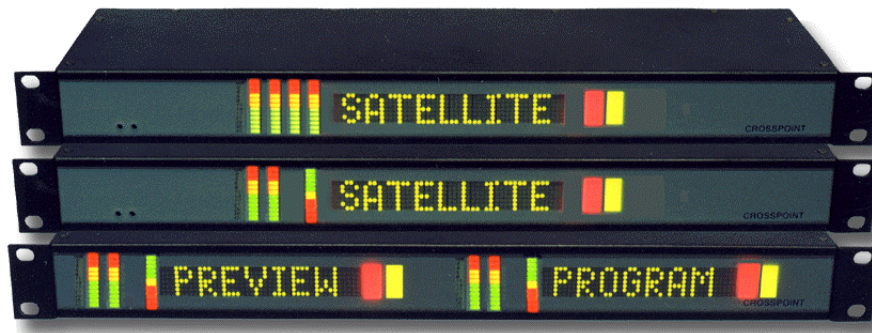
CROSSPOINT manufactures several models of Display for installation on TV monitoring panels. These Displays are designed for use in control rooms where different video and audio signals have to be presented and identified in a clear and simple manner. Situations like Tally and audio alarms are also signaled.

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

- **Single or dual text message display**
- **Dual independent TALLY lights per text**
- **2 - 4 channel Analog audio metering with audio alarm signaling**
- **RS-485 network remote control capability**

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

- **Single or dual Phase meter**



AUDIO METERING. Model **DBM-10-IPA** receives four analog audio signals and displays four VU-meter type indications plus one text. Model **DBM-10-IPA-F** receives two analog audio signals and displays two VU-meter type indications plus the Stereo Phase and one text. Model **DBM-D9-IPA-F** receives 2 + 2 analog audio signals, and displays 2+2 VU-meter type indications and 1+1 Stereo Phase indicators plus two texts. Audio levels are presented over 2/4 vertical bars, LED-type tricolored, with 12 steps, gauged to +4dBm for the VU-meter type indicators and from -1 to +1 on Phase-meters. Audio channels are continuously analyzed to 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.

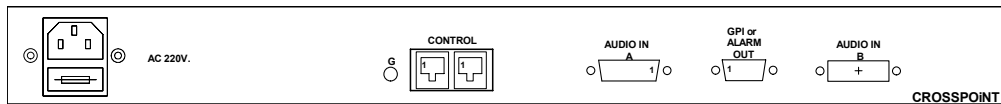
This type of Tally indication is so bright that monitors without Tally lights can be used, again reducing expenses, since usually this type of monitor has a markedly lower price. You will also save in cable and connectors, as there is no need to link up each Display to its associated video monitor.

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 DBM-10IPA-F DBM-D9IPA-F
Input audio:	Four analog audio channels, DBM-10IPA and DBM-D9IPA-F. Two analog audio channels, DBM-10IPA-F
Input impedance:	>10 KOhms.
Level measurement:	0VU= +4dBm, VU-meter type.
Phase Measurement:	Correlation (Stereo Phase): -1 to +1.
LED bar-graphs:	4 with 12 tricolor LEDs each, DBM-10IPA. 3 with 12 tricolor LEDs each, DBM-10IPA-F. 3+3 with 12 tricolor LEDs each, DBM-D9IPA-F.
Detected alarms:	Silence: Level below -20dBm for more than 10 secs., programmable. Inverted Phase: Inverted phase for more than 5 secs.
Text window:	10 matrix with 5x7 LED each, 17 mm height. DBM-10IPA and DBM-10IPA-F 9+9 matrix with 5x7 LED each, 17 mm height. DBM-D9IPA-F
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)

CROSSPOINT