

UNDER MONITOR DISPLAYS

SYSTEM DESCRIPTION

CROSSPOINT manufacture a wide range of **UNDER MONITOR DISPLAYS** to suit most TV Broadcast environments. Our **Static, Dynamic, Tricolor, Slim** and **Combo** models provide a clear and bright information, with text, tallys and audio level bar-graphs for TV Studios, Presentation Rooms and OB Vans.

Static UMD's are cheaper but you can display the Message internally stored and the Tally with 3 levels of brightness. Both, characters and brightness level, can be set by two small pushbuttons located in the front panel. Tally indication can be activated by using the GPI input at the rear. Available with single or dual message window.

More powerful, our **Dynamic** UMD's are able to change the message displayed either following the Routing Switcher cross-points changes or by GPI input, directly to each UMD. The messages can be stored, either on the UMD itself (8 max.) or in our Controller HUB-DSP where we allocate tables with all names needed.

It can be programmed by using two small pushbuttons located in the front of the unit. You can enter names, set two independent brightness levels (for normal operation and for Tallys), adjustables in 99 steps and to assign the device number in case the UMDs are networked. A rear connector for GPI/GPO allows, just by closing circuits, to display any of the 8 messages stored on the UMD internal memory as well as triggering the red or green Tally lights, independently. Models available with **single, dual or triple** message window. Single message **half rack wide** model are also available. Some models adds internal SDI to PAL/NTSC **DA converters**.

Tricolor dual message model are also **Dynamic** and the Tally information change the message color from green to yellow and/or to red. Most of all our UMD's can work stand alone and fits in 1 RU, with internal power supply for 220VAC(110VAC).

Slim series are also dynamic UMD's, designed specially for OB'vans and allow to install the Display unit (2 cm. deep only) in front off the monitor. A tilt down mechanism allow to access the monitor front knobs. We can provide attachments for almost any TV monitor in the market. This design saves 1 RU unit per Display. The rear unit can be installed in any place at the back of the rack, up to 2m. distance.

Combo series include several models with text, tally, audio level metering or time code display, all dynamic. Audio can be measured from analog, digital AES or SDI embedded audio inputs. Time code is decoded from LTC or DVITC.

Some models adds internal SDI to PAL/NTSC and Embedded SDI Audio to Analog audio **DA converters**.

By utilizing our **Controller HUB-DSP** (in 1RU), up to 255 dynamic UMD's can be networked RS-485. Powerful **TALLY** management with a dual internal 128x128 tally matrix. See the block diagram of the UMD System. By using **GUSYC**, a PC software included, you can easily configure the entire UMD system, store and recall system configurations including Multi-image processors as part of an overall signalling system. An optional **Keyboard** KBD-232 connected to the HUB-DSP allows the operator to configure the entire UMD's wall panel just looking the UMD's prompts.

By connecting the HUB&UMD's system to a Routing Switcher you can achieve a fully dynamic mode of operation where the names on UMD's change, following the cross-point activity of your Routing Switcher. For that purpose you need to add the **PS-MTX option** to the HUB, which include a RS-232/422 Port plus the software for the specific model of the R.S. you may use.

The **64 Tally In** option allows to enter with up to 64 closed contacts (Tally relay outputs) from your Mixer. These Tally commands are sent through the RS-485 network to the UMD's and can be fully mapped (any Tally input to any UMD).

If you need to send Tally indication to your cameras as well, we suggest to use the **64 Tally Output** option, that allows to generate 64 relay closing circuits, also fully mapped (any Tally In to any Tally Out).

With **LPA-GUSYC** option an **Ethernet port** is added to the HUB-DSP for configuration purposes using GUSYC.

LPA-MP option allows to send names and Tally information to one or more Multi-image Display Processors. Configured using GUSYC as part of an hibrid UMD and Tally system.

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Finally, the **TC-HUB** option allows you to enter LTC (Longitudinal Time Code) to the **Controller** and send the clock information to one or several UMD's in the network, either Local time or any Time zone. It allows Countdown operation as well.

Following is the list of devices and protocols we currently interface:

Routing Switchers:

- THOMSON-GVG with VM3000 controller(Jupiter), ASCII, MPK and ES Switch protocols.
- UTAH with SC2 & SC3 controllers, ASCII protocol.
- SIERRA VIDEO, all models and sizes.
- SONY, Digital Video Series, CART+ protocol.
- DATATEK, D2600/D2800 series.
- QUARTZ, Q1600,3200,6400 series with CI-0001 Computer I/F.
- LEITCH, Pass-Through protocol.
- NETWORK, Interface protocol RS232.
- PESA Switching, CPU link & USP protocol, P1E.
- PROBEL, General remote protocol (SW-P-08).
- TELECAST, Prosan protocol.
- EXTRON, standard protocol.
- ISIS-GROUP, standard protocol.

Automations:

- OMNIBUS, TSL protocol.
- LOUTH, Countdown operation.

Mixers (Tallies received in serial mode):

- SONY MIXER 7000,8000 and 9000 series.
- THOMSON-GVG, DD series, serial Tally protocol.
- SNELL & WILCOX, HD1000 and Golden DaVE series, Kahuma.
- ROSS Synergy series.

Multi-image processors:

- Miranda.
- Evertz.
- Barco.
- Zandar
- Leitch.

If your needs are to install a Router or Mixer not listed above, please let us know. We will do our best to include in it .

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