HUB-DSP
HUB-DSP-NET

UMD-TALLY SYSTEM CONTROLLER

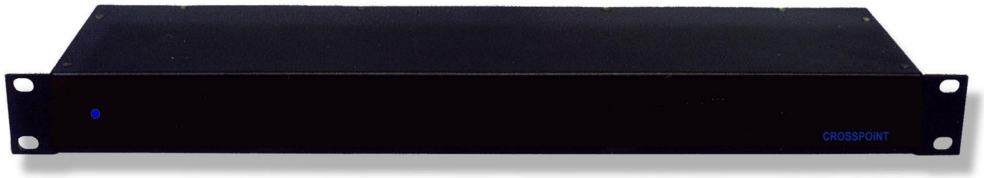
CROSSPOiNT manufactures several models of Display for installation on TV monitoring panels. These Displays are designed for use in control rooms where different video and audio signals have to be presented and identified in a clear and simple manner. Situations like Tally and audio alarms are also signaled. The **HUB-DSP** controller is the heart of the dynamic UMD's system, sending names and TALLY information to all UMD's connected in a RS485 party line. Several options allows integration of Router and Mixer for a fully dynamic TEXT and TALLY display performance.

The **HUB-DSP and HUB-DSP-NET** models combine, in a single unit , the following features:

- **RS-485 network remote control capability for UMD's.**
- **Powerful TALLY management.**
- **Input/output serial ports, optional for Router/Mixer interface.**
- **TALLY Parallel Input/output, optional.**
- **GUSYC, PC visual configuration software supplied.**
- **Easy configuration by GUSYC or with an optional keyboard.**

With external modules:

- **Ethernet port, optional. Included on HUB-DSP-NET.**
- **Optional interface with most Multi-image processors.**

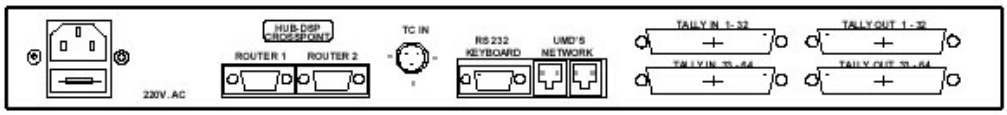


By using **Controller HUB-DSP** (in 1RU), up to 255 dynamic UMD's can be networked RS-485. It has a powerful **TALLY** management with a dual internal 128x128 tally matrix. By using **GUSYC**, a PC software included, the user easily configure the entire UMD system, store and recall system configurations. Optionally, an small compact keyboard**, KBD-232,** allows the operator to configure the entire UMD's 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. List of Routers currently interfaced includes, SONY, THOMSON, PESA, PROBEL and many others. Also Serial TALLY can be received from Mixers like SONY,THOMSON, SNELL&Wilcox and ROSS.
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 Out** option, that allows to generate 64 solid state relay closing circuits, also fully mapped (any Tally In to any Tally Out).
With **LPA-GUSYC** option an **Ethernet por**t is added to the HUB-DSP for configuration purposes using GUSYC. It is included in the model HUB-DSP-NET.
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.
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.

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

Rear view



SPECIFICATIONS:

Models:	HUB-DSP, HUB-DSP-NET
TALLY processing:	Dual internal TALLY matrix, 128x128.
Configuration:	Via RS232 port.
Communications:	Party line for CROSSPOiNT dynamic Under Monitor Displays UMD. RS485 port for multi-drop serial communication, 9600 baud, 8 bit data, 1 stop bit with no parity.
Options:	**TC-HUB**, LTC Time code input module. **PS-MTX**, Serial Port and software to communicate with a Router or a Mixer. **PS-MTX-DUAL**, Dual Serial port and software to communicate with Router and Mixer. **64TALLY IN**, 64 inputs by closure to GND, non-isolated. **64TALLY OUT**, 64 Alarm Outputs by solid state Relés. **KBD-232**, Compact keyboard. **LPA-GUSYC**, 10BaseT Ethernet port. Included in HUB-DSP-NET. **LPA-MP**, Multi-image display processor interface.
Switcher protocols available:	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.
Mixers, with Serial TALLY	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.
Power Supply:	100 - 240 VAC, 47 to 63Hz.
Max. Consumption:	20 VA.
Size:	Width, 19". Height, 42 mm (1RU). Depth, 210 mm. (without connectors).
Weight:	3,5 Kg.
Operating temperature:	0 to 40ºC.

(Specifications subject to change without prior notice)
(Names of Products and Firms are the property of the companies concerned)

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