

PHANTOM 800

DVI Processor



The PHANTOM 800 is an all-digital DVI video processor that integrates seamless 8x8 DVI matrix switching, output scaling, and frame-grabs into a single unit. The PHANTOM 800 provides the same level of switching, scaling and frame grabs for any analog, SDI or HD-SDI signal source when combined with Black Diamond Video's phantom-powered DVI CONVERTERS, eliminating the need for multi-format switches and cables.

At the core of the PHANTOM 800 DVI processor is a seamless 8x8 DVI matrix switch with up to 8 output post-scaler image processors. Built-in auto-display detection allows any video source to be displayed on any monitor at its maximal resolution and proper aspect ratio. Individual or simultaneous frame-grabs can be performed on any input source with output frame-grab previews. Image controls include pan, zoom, position, contrast, brightness, and programmable LUTs.

The PHANTOM 800 processor creates a flexible architecture when combined with Black Diamond Video's DVI CONVERTERS, allowing customers to use their legacy analog or SDI video sources with the ability to upgrade to DVI in the future.

FEATURES

- DVI matrix processor with 8 inputs and 8 outputs
- Seamless switching
- Up to 8 S-1 Scaler Cards per unit for post-output scaling and image processing
- Frame-grab and frame-upload capability
- Supports single-link DVI operation at the maximum TMDS rate of 1.65 Gb/s
- Input and output rates from 640x480 up to 1920x1200, interlaced or progressive
- Phantom-power to DVI CONVERTERS for connectivity and signal processing for any analog, SDI or HD-SDI video source
- Phantom-power to DVI X-treme Cable Kits for DVI transmission over 60 meters of copper on both the input and output side of the switch at the highest TMDS rate of 1.65 Gb/s
- Built-in test pattern generator
- Remote diagnostic capability
- Frame latency < 1.5 frames
- Controls: 10/100T Ethernet and RS232
- Built-in, customizable web-server GUI

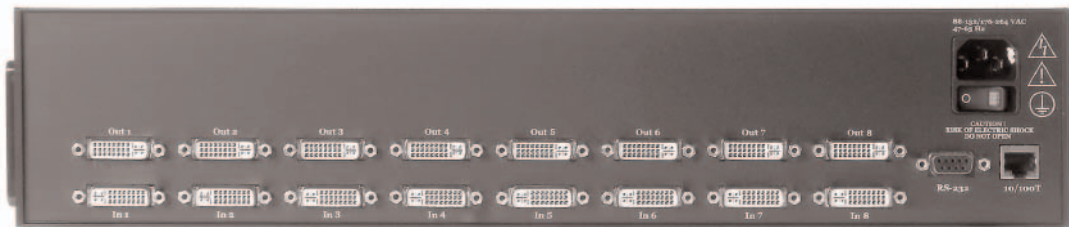
OPTIONS

- Up to 8 RS232 Expansion Cards per unit for peripheral equipment control
- Configurable USB switch with 8 input and 8 output pairs
- Optional front panel controller



PHANTOM 800

DVI Processor



VIDEO SPECIFICATIONS

Video Format	DVI Single-link, supports maximum TMDS rate of 1.65 Gb/s
Video Rates	I/O rates 640x480 to 1920x1200, interlaced or progressive, 25-165 MHz
Connectors	DVI-I female
Scaler Function	See specification sheet for S-1 Scaler Card

CONTROLS

Serial Controls	RS232, DB9 female connector
Ethernet Controls	10/100T Ethernet, Protocols: Telnet, FTP, HTTP
GUI	Customizable web-server GUI

GENERAL

Dimensions/Weight	2u, 19" rack-mountable enclosure, 16.73"W x 12"D x 3.5"H, 12 pounds
Temperature Rating	0-55° C
Power	90-240 VAC, 47-63Hz, 200 Watts
Agency	UL, CE, FCC Class B