

DVI-Master HD Series

HD/SD Digital Video Scan Converter & Processor

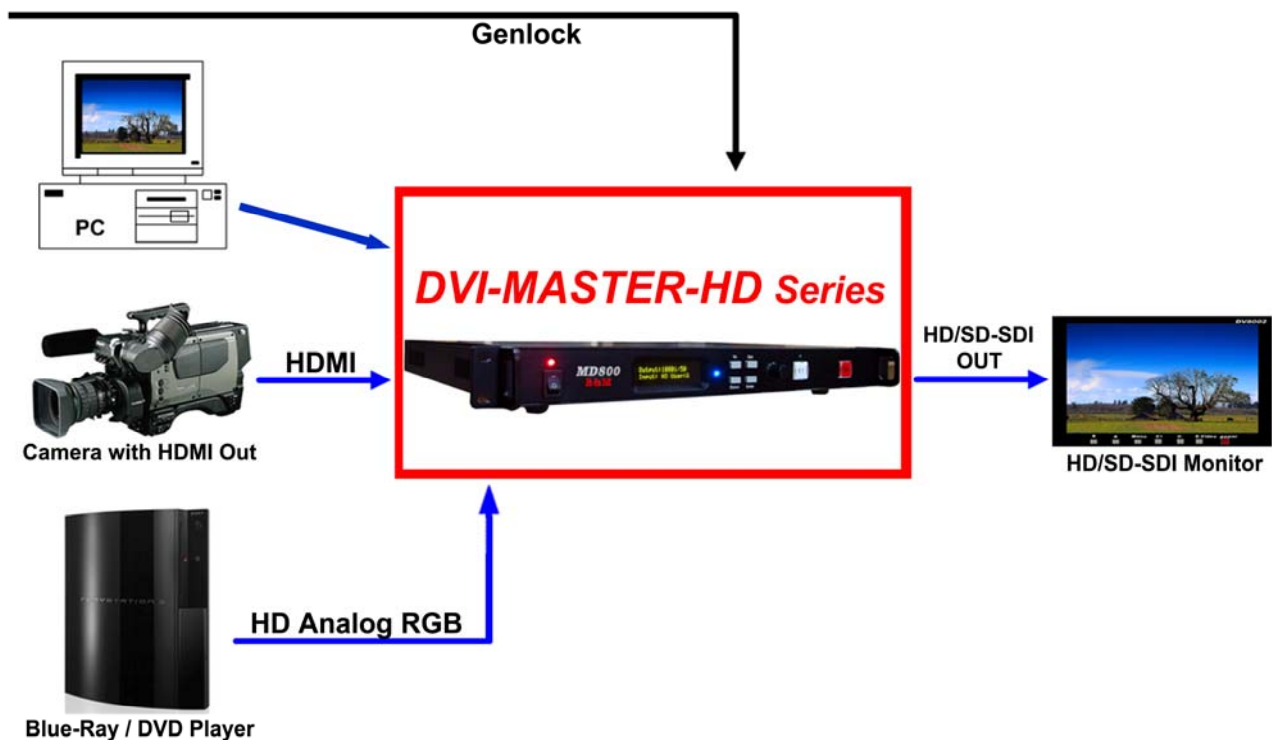
DVI-Master HD series accepts the digital inputs from DVI or HDMI, as well as analog inputs from WUXGA or RGBHV, then convert them to HD/SD-SDI video signal.

A broadcasting quality down scaler with continuous anti-aliasing filter is built-in allow user to down scale the original PC or other graphics to a smaller area for either picture-in-picture effect or for fitting the target SDI resolution.

The target video signal could also be chopped or move horizontally and vertically. Together with the ALPHA key module mentioned later, users are able to overlay such PC or other graphics over the back ground SDI signal without using any external video mixer.

Features

- ✓ Resolution up to 1920x1200x60
- ✓ Supports both digital (DVI or HDMI) and analog (VGA/BNC) inputs
- ✓ Built-in down scaler with continuous anti-aliasing filter
- ✓ Additional internal digital Alpha key option as the MD800-K model
- ✓ Active WUXGA loop-through
- ✓ Full Proc Amp control
- ✓ Display full-screen or just a user-defined area to output
- ✓ RS-232 or RS-422 selectable, all front panel functions controllable.
- ✓ Stand alone remote control unit as the option



Specifications

DVI / VGA Inputs	
Connectors	DVI-D x 1, Single - link, Digital, Up to 1920x1200x60Hz
	BNC x 5, Analog, RGBHV or RGB with Sync-on-green, Up to 1920x1200x60Hz
	VGA x 2, Analog, Up to 1920x1200x60Hz (One as input, one as active loop-through output.)

Serial Digital Video Input	
Standard	SMPTE 292M - 1.485Gb/s, 1080i/60/59.94/50, 1080p/24/23.98(sF), 720p/60/59.94/50 SMPTE 372M - 1.285Gb/s, Dual-link, 1080p/60/59.94/50 SMPTE 259M-c 270Mb/s Digital component, 525i/60, 625i/50
Number of Inputs	3 Pairs - Module designed for HD/SD Program, HD/SD Alpha Key and HD/SD Fill (Each pair of BNCs has one for input and one for re-clocking loop-through output.)
Equalization	Automatic 100m @ 1.485Gb/s with Belden 1694, 25m when bypass relay is ON
Impedance	75Ω

Serial Digital Video Output	
Standard	Same as input
Number of Outputs	Up to 4 BNCs - 2 for Program, and 2 for Preview (Optional)
Signal Level	800mV ±10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 270ps @ 1.485Gb/s, < 800ps @ 270Mb/s
Overshoot	< 10% of amplitude
Alignment Jitter	< 0.2UI at both 1.485Gb/s and 270Mb/s
Timing Jitter	< 0.4UI @ 1.485Gb/s, < 0.2UI @ 270Mb/s
Impedance	75Ω

Gen Lock	
Type	HD Tri - Level Sync, or NTSC/PAL Bi-Level Sync (300mV) or color black (1Vpp)
Connectors	BNC x 2 (One BNC for input, one BNC for passive loop-through output.)
Impedance	75Ω

Electrical & others	
Serial Control	RS-232 or RS-422 selectable, all front panel functions controllable Stand alone remote control unit as the option
Power	100 ~ 240VAC, 50/60Hz, < 80W
Safety & EMI	Complies with FCC Part 15 Class A / UL / CE

All features, specifications, pricing are subject to change without notice.

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