DVI-Master HD Series
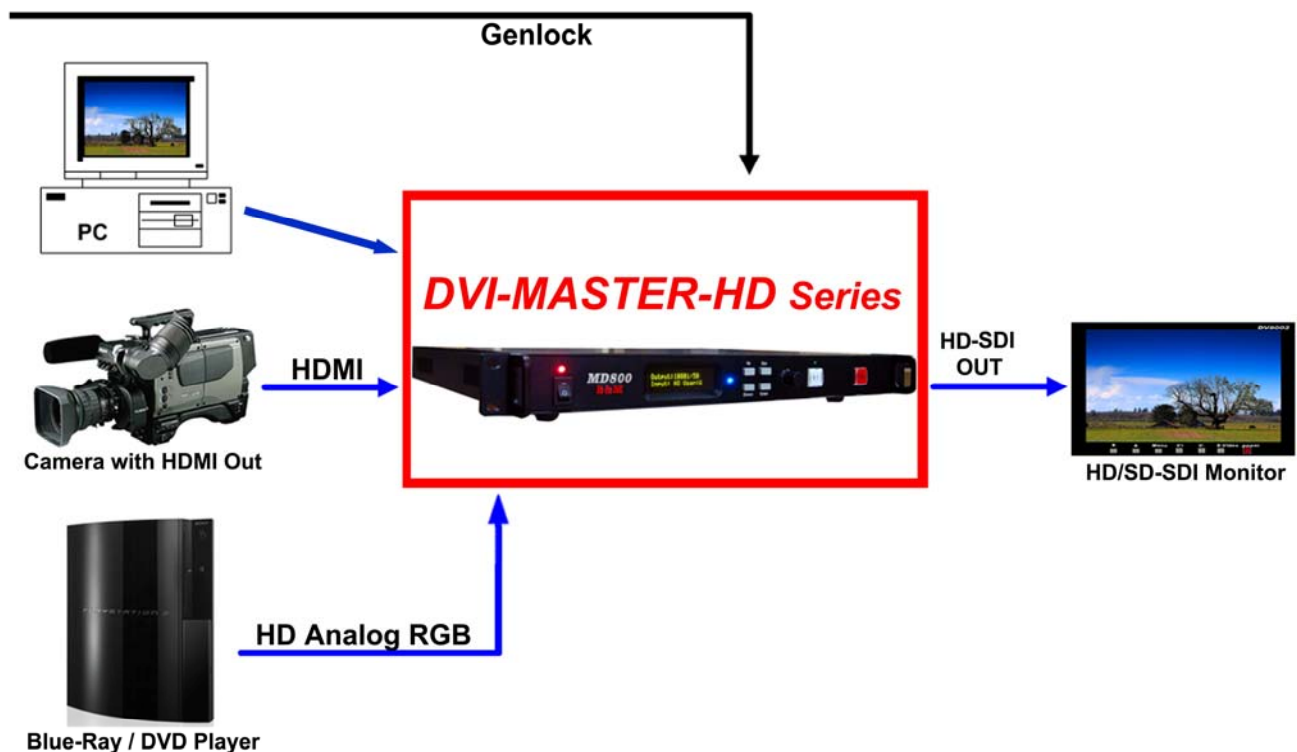## HD/SD Digital Video Scan Convertor & Processor

DVI-Master HD series accepts the digital display inputs from DVI and 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 output digital embedded signal provides the independent up to 1 second audio delayed as the additional options, users are able to directly embedded the stand alone digital or analog audio input signal without any lip Sync. problems.

Features

✔ Resolution up to 1920x1200x60

✔ Supports both digital (DVI or HDMI) and analog (VGA/BNC) inputs

✔ Built-in FULL 10-Bit digital TBC & Frame Sync., Gen Lockable

✔ Built-in up & down scaler with continuous anti-aliasing filter

✔ Active WUXGA loop-through output

✔ Full Proc Amp control

✔ Independent digital AES/EBU audio or analog stereo audio input as the options

✔ Up to 1 seconds independent audio delay feature as the options

✔ RS-232 or RS-422 remote control port selectable, stand alone remote control unit as the options

Specifications

HDMI / DVI / VGA Inputs	
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 (Option)
Connectors	HDMI x 1, Digital, Up to 1920x1200x60Hz
	DVI-D x 1, Single - link, Digital, Up to 1920x1200x60Hz
	VGA x 2, Analog, Up to 1920x1200x60Hz (One as input, one as active loop-through output.)

Serial Digital Video Output	
Standard	Same as input
Number of Outputs	2 BNCs for Program Output
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
Equalization	Automatic 100m @ 1.485Gb/s with Belden 1694, 25m when bypass relay is ON
Impedance	75Ω

Gen Lock	
Type	NTSC/PAL Bi-Level Sync (300mV) or color black (1Vpp), or HD Tri - Level Sync. as the option
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