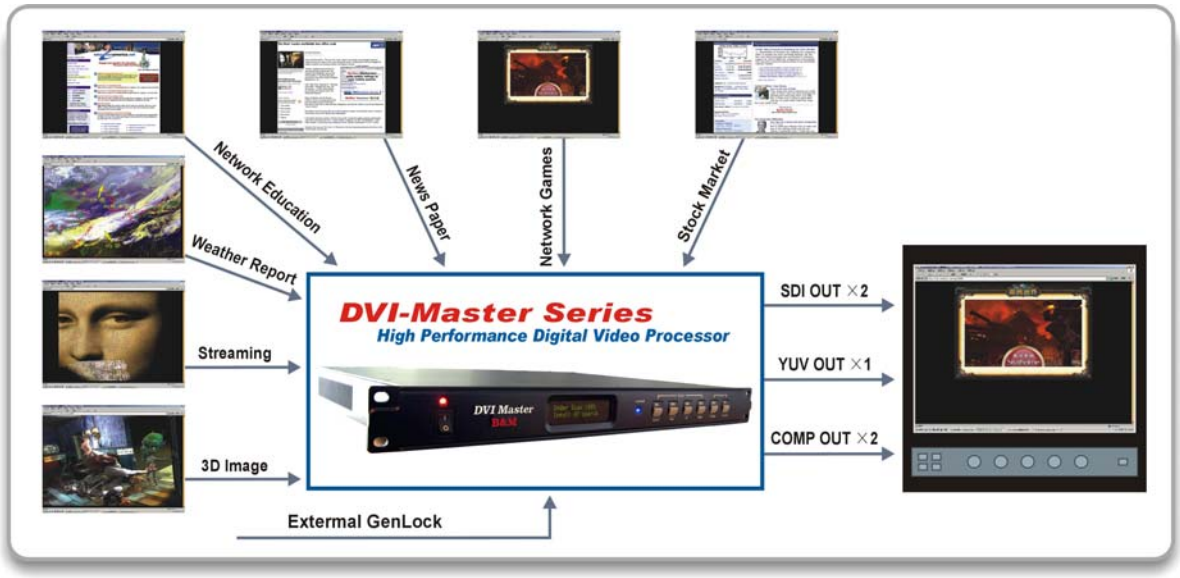
DVI-Master Series

High Performance Digital Scan Convertor / Video Processor

DVI-Master is a high performance digital scan convertor and video processor for transforming the digital visual interface (DVI) signals to the high quality video signals with anti-flickering feature, supports both digital SDI and analog composite video signals output simultaneously.

DVI-Master provides the specified a part of the graphics or display areas live output to the high quality video via DVI connectors by pixel to pixel mapping. The digital signal processor takes less than 40ms. Enable to do the adjustments of the output signals' chroma, contrast, brightness, H-Phase, SC_Phase and other video parameters. The horizontal and vertical size of the output video is adjustable independently. Built-in the high performance digital frame synchronizer, DVI-Master provides the Gen Lock feature for the broadcasting users, avoids the flickers or jitters during the video output. Additional feature of internal or external digital ALPHA keyer is designed for 2D or 3D character generators.

DVI-Master makes all of the broadcasting, editing, post-production and professional multimedia users very easily for 3D graphics or video output, 2D/3D character generator, weather report, financial report, stock report, electronic education and other usages.



Features

√ High quality digital video or graphics live output
√ Chroma, Contrast, Brightness, H-Phase, SC_Phase and other output video parameters adjustments
√ Up to 5 customized parameters saving feature to suitable with the different kinds of users
√ Freeze frame and freeze field feature
√ The H and V position of the output video signal is adjustable
√ The horizontal and vertical size of the output video is adjustable independently
√ PAL 625-line and NTSC 525-line video format selectable
√ Anti-Flickering feature
√ Built-in the digital frame synchronizer, Gen Lockable
√ Provides RS-232 port. The stand alone 1U rack mountable external control unit as the option

O.D.M. Original Design Manufacture

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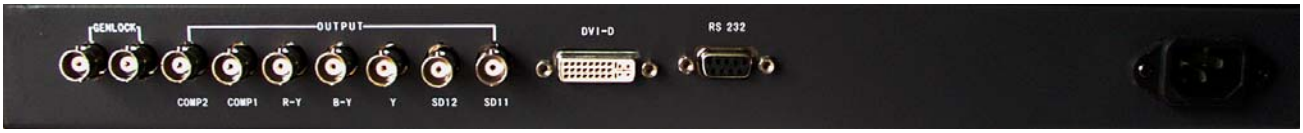
Specifications



Input & Output Signals

Input & Output Signal	1-channel or 2-channel DVI signals
Input Connectors	1 or 2 DVI-D connectors
Input Digital Back Ground Signal	Digital SD-SDI video signal (Optional)
Input Digital Back Ground Connector	75Ω BNC (Optional)
Output Video Signal	Digital SD-SDI, analog composite video signals
Output Video Connector	75Ω BNC
External Control Interface	RS-232 remote control port
Gen Lock Signal	625-line PAL analog composite video signal

Output Video

Output Video Standard	625-line PAL or 525-line NTSC (HD video supported model is MD800-DVI)
Output Video Resolution	720 x 576, 720 x 480 (HD video supported model is MD800-DVI)
DVI or VGA Resolution	800 x 600, 1024 x 768 (HD video supported model is MD800-DVI)
Bandwidth	6 MHz
Sample Precision	10 Bits
Signal Processing Model	8Bits 4:4:4 RGB data to 10Bits 4:2:2 YUV (Pixel to pixel mapping)
Sample Frequency	SD Video 27MHz CCIR656 (HD video supported model is MD800-DVI)
Video Processing	4:2:2
Signal to Noise Ratio	> 70 dB (Analog Weighted)
SDI Amplitude	800mV ± 25mV
SDI Jitter	< 0.1 UI

Electrical & Mechanical

Power	100 ~ 240 VAC ± 10%, 50/60 Hz, < 30W
Chassis Dimension	480 (W) x 445 (H) x 328 (D) mm

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

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