

# MagicPro VSP-1708HD

Video Processor



## Specification

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## 1. Introduction



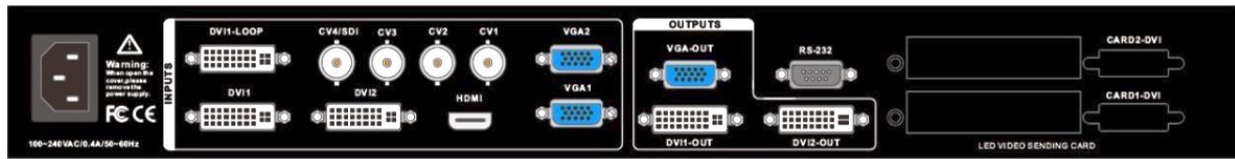
**VSP-1708HD** is a 9-channel digital-analog video input video processor, It can be widely used in video switching, image splicing and image scaling market.

## (1)Front Panel



Button	Function	Button	Function
<b>CV1</b>	Enable CVBS 1(V) input	<b>CV2</b>	Enable CVBS 2 (V)input
<b>CV3</b>	Enable CVBS 1(V) input	<b>CV4/SDI</b>	Enable CVBS 4 (V)/SDI input
<b>VGA1/AUTO</b>	Enable VGA 1 input auto revise	<b>DVI 1</b>	Enable DVI 1input
<b>VGA2/AUTO</b>	Enable VGA 2 input auto revise	<b>DVI 2</b>	Enable DVI 2input
<b>HDMI</b>	Enable HDMI input	<b>FREEZE/BLACK</b>	Freeze screen or output black
<b>LCD</b>	Display the parameters	<b>PART</b>	Partial Screen display
<b>FULL</b>	Full Screen display	<b>PIP</b>	Enable/Disable PIP function
<b>CUT</b>	Seamless switch	<b>LOAD</b>	Load previous setting
<b>FADE</b>	Fade in Fade out switch		Cancel or return
<b>Rotary</b>	Adjust the menu position and parameters		

## (2). Rear Panel



DVI INPUT			
QUANTITY	2		
CONNECTOR	DVI-I		
STANDARD	DVI1.0		
RESOLUTION	VESA standard, PC to 1920x1200, HD to 1080p		
VGA INPUT			
QUANTITY			
CONNECTOR	DB15		
STANDARD	R、 G、 B、 Hsync、 Vsync:0 to1Vpp±3dB (0.7V Video+0.3v Sync) 75 ohm black level: 300mV Sync-tip: 0V		
RESOLUTION	VESA standard, PC to 1920x1200		
CVBS (V) INPUT			
QUANTITY	4		
CONNECTOR	BNC		
STANDARD	PAL/NTSC PAL-M/N、 SECAM 1Vpp±3db (0.7V Video+0.3v Sync) 75 ohm		
RESOLUTION	480i,576i		
HDMI INPUT			
QUANTITY	1		
CONNECTOR	HDMI-A		
STANDARD	HDMI1.3 compatibility backward		
RESOLUTION	VESA standard, PC to 1920x1200, HD to 1080p		
SDI INPUT			
QUANTITY	1		
CONNECTOR	BNC		
STANDARD	SD-SDI, HD-SDI, 3G-SDI		
RESOLUTION	1080p 60/50/30/25/24/25(PsF)/24(PsF) 720p 60/50/25/24 1080i 1035i 625/525 line		
DVI/VGA OUTPUT			
QUANTITY	2 DVI or 1VGA		
CONNECTOR	DVI-I, DB15		
STANDARD	DVI standard: DVI1.0	VGA standard: VESA	
RESOLUTION	1024×768@60Hz	1920×1080@60Hz	
	1280×720@60Hz	1920×1200@60Hz	2560 x 960@60Hz
	1280×1024@60Hz	1024×1280@60Hz	1920×1080@50Hz
	1440×900@60Hz	1536×1536@60Hz	1024×1920@60Hz
	1600×1200@60Hz	2048×640@60Hz	User-defined resolution
	1680×1050@60Hz	1280×720@50Hz	

## 2. Features

- (1). Multiple video inputs -**VSP-1708HD** 9-channel video inputs, 4 composite video (Video), 2-channels VGA, 2 channel DVI, 1-channel HDMI, 1 channel SDI(Optional). Basically it covers the needs of civilian and industrial use.
- (2). Practical video output interface **VSP-1708HD** has three video outputs( 2 DVI, 1 VGA) and one output DVI video distribution (ie LOOP OUT), 1 Audio output.
- (3). Any channel seamless switching **VSP-1708HD** video processor can also seamlessly switch between any channel, the switching time is adjustable from 0 to 1.5 seconds.



CUT A-B



Fade In Fade Out

(4). **Multiple output resolution** **VSP-1708HD** is designed for users of a number of practical output resolution, the widest reach 2560 points, the highest point of 1920, for a variety of dot matrix display. Up to 20 kinds of output resolution for the user to select and adjust the output to the point-to-point. 1.3 megapixel user-defined resolution, the user can freely set the output.

(5). **Support pre-switch technology** - pre-switch technology, at the time of switching the input signal, the channel which will be switched to predict in advance whether there is a signal input, this feature reduces the case may be due to line break or no signal input to switch directly lead to errors, improve the success rate of performance.

(6). **Support PIP technology**-the original image at the same state, the other input of the same or different images. **VSP-1708HD** PIP function not only can be adjusted overlay's size, location, borders, etc., you can also use this feature to implement picture outside picture (POP), dual-screen display.



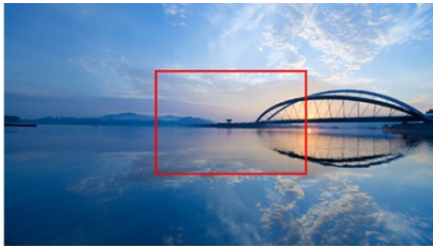
PIP



POP

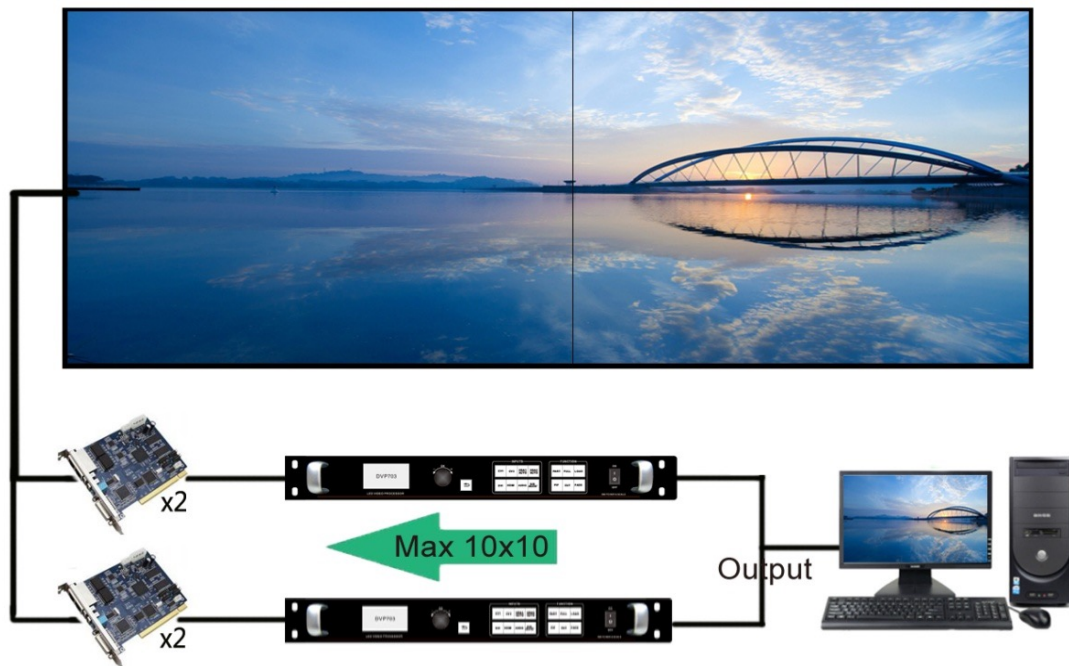
(7). **Support Freeze images**- during playback, you may need to freeze the current picture up, and "pause" picture. When the screen freezes, the operator can also change the current input or change cables, etc., to avoid background operations affect performance.

(8). **Part with full screen quickly switch VSP-1708HD** can crop part of screen and full the screen operation, any input channel can be independently set different interception effect, and each channel is still able to achieve a seamless switch.



(9). **Preset load VSP-1708HD** with 4 preset group of users, each user can store all preset parameters set by the user.

(10). Unequal and equal splicing - splicing is an important feature of **VSP-1708HD** which can be achieved Unequal and equal splicing, greatly meet user needs on the splicing. Implemented in more than one processor frame synchronization, 0 delay, no more tail and other technology, the perfectly smooth performance.





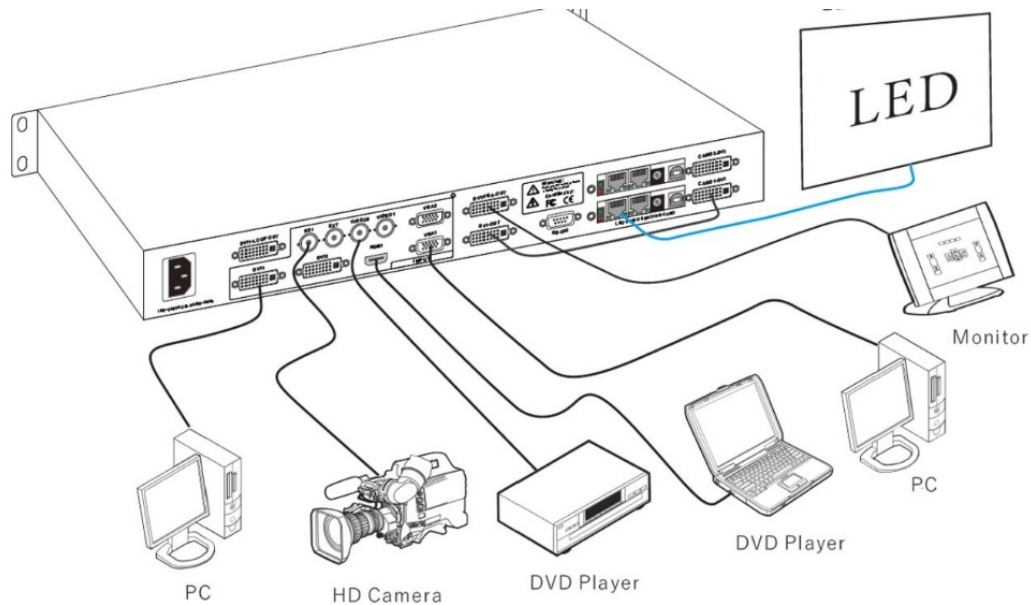
(11). **30 bit image scaling technology VSP-1708HD** uses a dual-core image processing engine, a single core can handle 30-bit scaling technology, can be realized from 64 to 2560 pixel output while achieving 10-times amplification of the output image, ie, the maximum of the screen 25600 pixel.

(12). **Unique brightness adjustment technology VSP-1708HD** built unique brightness adjustment function, resolve to reduce the brightness after layering lost, so color reproduction become more real.

(13). **Chroma Cutout function VSP-1708HD** set the color which need to cutout on processor previously, it is used to implement the image overlay function.



### 3. Applications



**VSP-1708HD** is a 9 channels digital-analog video input, 3 video output processor, it could be widely used for Lease performances, special-shaped, large LED display, LED display mixed (different dot pitch), large stage theater performances, exhibitions and so on display.

## 4. General

GENERAL PARAMETERS	
WEIGHT	3.5Kg
SIZE(MM)	Product: (L, W, H) 250 x 506 x 50
	Carton: (L, W, H) 515 x 110 x 355
POWER SUPPLY	100VAC – 240VAC 50/60Hz
CONSUMPTION	18W
TEMPERATURE	0°C~45°C
STORAGE HUMIDITY	10%~90%