

GeoBox™

(Multi-Video processing Box)

Video Wall
Image stack
3D DISPLAY
Edge Blending
Curved screen
Geometry & Warp
Format Conversion



GeoSemi
eWARP™ 


Value & Satisfaction

Single and dual channel video processing box to provide professional and cost effective solution for multi-video displays

**Easy, flexible
Lowest barrier
No PC required
Professional quality**

GeoBox is a standalone system to implement up/down scaling, format conversion, video wall, 3D decoding, curved surface display, sophisticated image edge blending and geometry adjustment up to WQXGA input and WUXGA (full HD) output. No PC is required for the installation and operation. It is a robust and reliable design to meet demanding industrial standard requirements.

Flexible, easy, quick and high performance are the key features of GeoBox. It will take less than 10 minutes settings in GeoBox for an experienced person to setup a three projector edge blending on flat screen or to create a Movie Theater 3D viewing experience in Home Theater or business environment.

Thorough system control concept is integrated in the design. Besides front panel keypads, IR remote controller and RS-232, other control methods are considered, such as IR receiver extender, HDMI CEC, Ethernet, phoenix trigger signals, DDC2B/2Bi/2B+/CI, Smart Phone and iPad control...etc. You also can use GeoBox RS-232 to turn ON/OFF the projector without PC. Five profiles are designed to store input source, output timing and all parameter settings. It allows to show different display styles in the same system setup

3 Projector Edge Blending

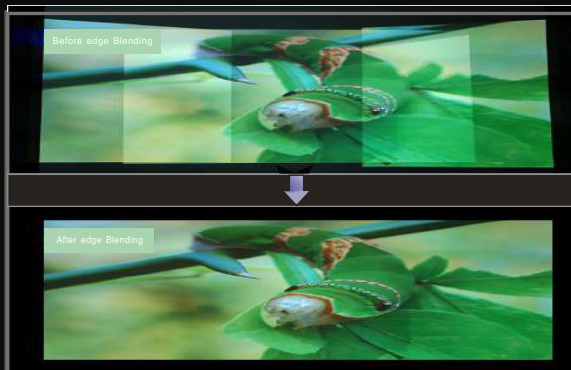
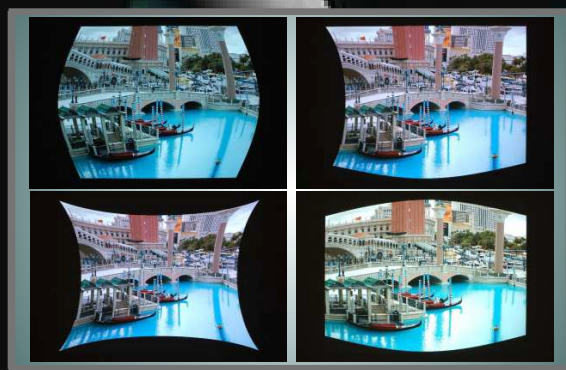


Image warp to fit curved screen



Edge Blending on Curved Screen

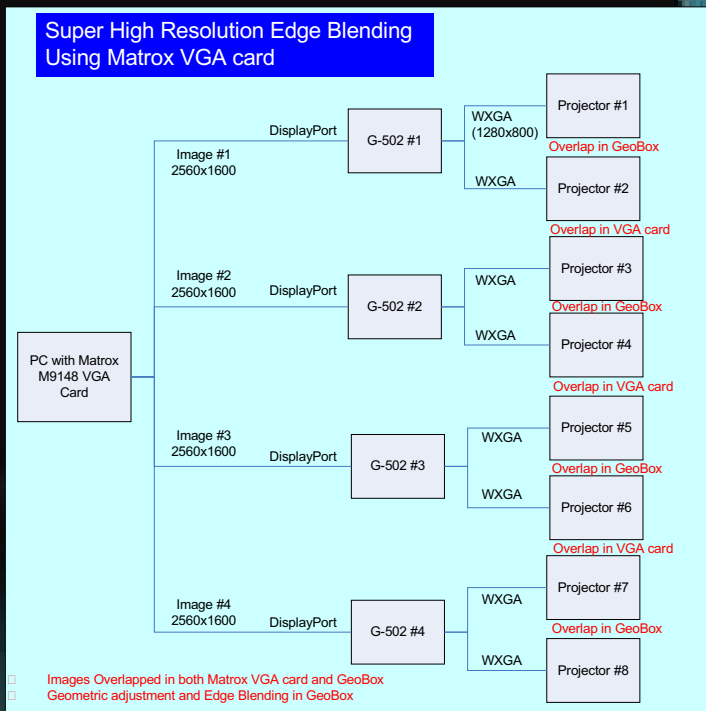
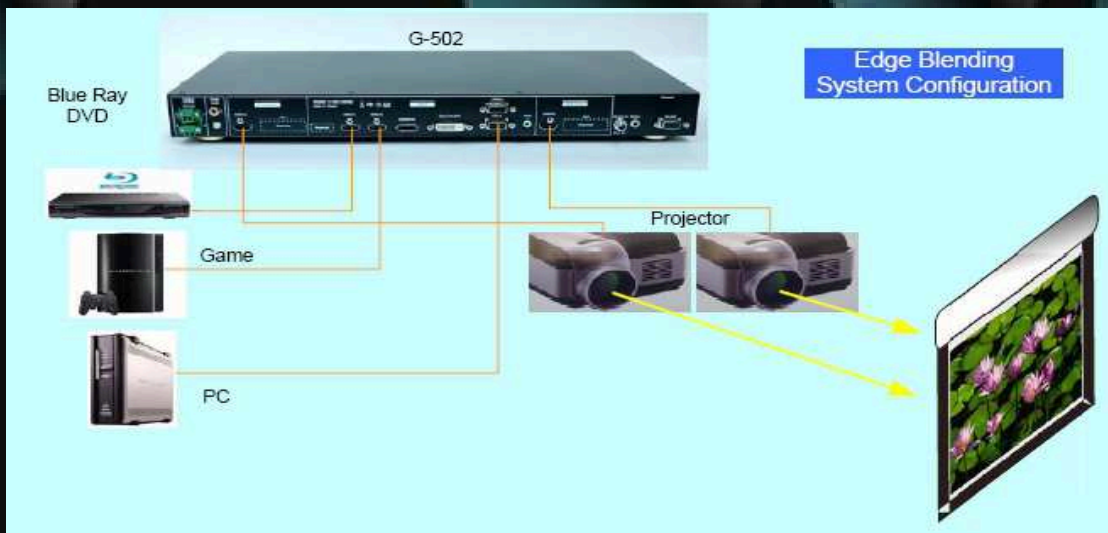
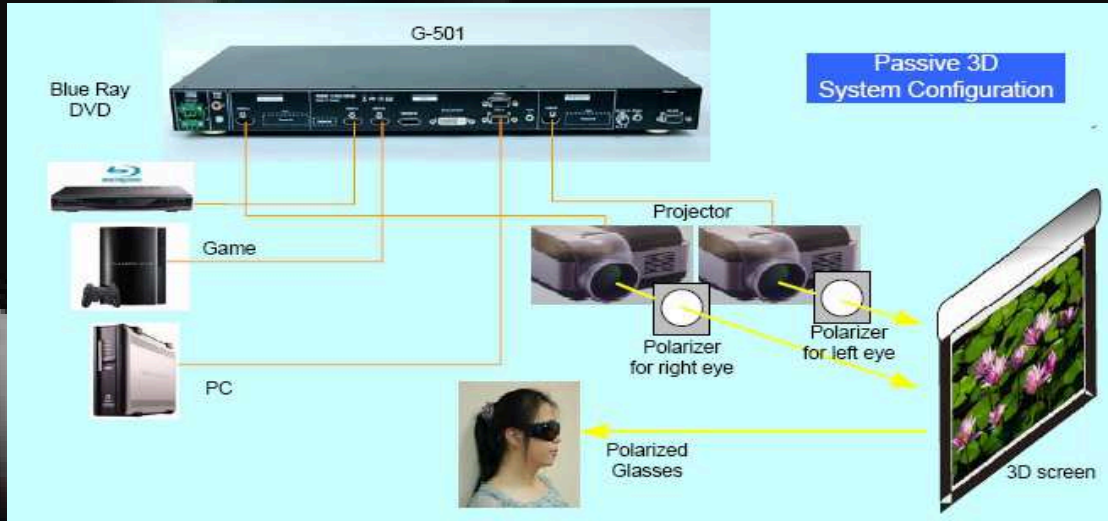


Video Wall up to 15x15 matrix displays



GeoBox features and specifications					
Items	Description	G-101	G-102	G-501	G-502
Input & Output	Video Input Ports	1x VGA (D-sub), 1x YPbPr (RCA), 1x DVI, 1x HDMI, 1x DisplayPort		2x VGA (D-sub), 2x HDMI, 1x Dual Link DVI(G-501), 1x DVI(G-502), 1x DisplayPort	
	Video Output	1x RGB, 1x HDMI		HDMI-A, HDMI-B (CH A/B come from the same input source)	
	Audio Input	1x analog RH/LH, PC audio Jack, HDMI embedded audio		PC audio Jack, HDMI embedded audio	
	Audio Output	Analog audio RH/LH, S/PDIF RCA Digital audio, HDMI audio		S/PDIF RCA & Optic Digital audio connectors, HDMI audio	
	Input resolution up to 1080P, 1920x1200, 2048x1080 and 2560x1600	Yes	Yes	Yes	Yes
	Output resolution up to 1080P and 1920x1200	Yes	Yes	Yes	Yes
	HDMI 1.4a receiver and output transmitter	Yes	Yes	Yes	Yes
	Frame lock to input (for multi-video synchronization)	Yes	Yes	Yes	Yes
HDCP key for DVI/HDMI/DisplayPort	Yes	Yes	Yes	Yes	
Geometry & Warp	4 corner position adjustment and H & V Keystone Correction	Yes	Yes	Yes	Yes
	Image rotation for screen fitting	Yes	Yes	Yes	Yes
	Cylindrical Curved Surface Correction	Yes	Yes	Yes	Yes
	Internal grid pattern for easy geometric adjustment	Yes	Yes	Yes	Yes
	Advanced curved adjustment without PC (4 Corner adjustment + Curve Adjustment)	Yes	Yes	Yes	Yes
eWarp Pro software tool for sophisticated curve screen display through PC	--	Option	--	Option	
Video Wall	Magnify, Scroll & Pan through all inputs	Yes	Yes	--	Yes
	Video wall function (image split, cropping and assign display location)	Yes	Yes	--	Yes
	Pixel based overlap adjustment in all edges, up to 15x15 matrix displays	Yes	Yes	--	Yes
	Up to 2560x1600 input resolution via DisplayPort	Yes	Yes	--	Yes
Edge Blending	Advanced Edge Blending (select edges, set overlap region, set gain/offset/gamma and black level)	--	Yes	--	Yes
Passive 3D Display	Movie Theater 3D viewing experience high performance 3D with low cost polarized glasses	Yes	Yes	Yes	Yes
	Auto detect and decode 2D/3D Blue Ray DVD signal for RH/LH output	Yes	Yes	Yes	Yes
	Decode 3D signals from PC, media player, Ethernet or STB (including 1080P frame packing, side by side and top/down 3D signals)	Yes	Yes	Yes	Yes
	Selectable output to RH or LH projector	Yes	Yes	Yes	Yes
	By-pass XGA & 720P @120Hz 3D signal for 3D display in DLP-Link 3D Ready projector using shutter glasses	Yes	Yes	Yes	Yes
	Convenient 2D/3D system switching control	--	--	Yes	Yes
1080P 24 Hz output with algorithm for RH/LH synchronization for high performance 3D display	Yes	Yes	Yes	Yes	
2 projector stacking	Two projectors image stacking for double brightness display	Yes	Yes	Yes	Yes
Advanced video processing	Advanced full 10 bits 3D de-interlace, smooth edge algorithm and 3:2/2:2 film mode processing	Yes	Yes	Yes	Yes
	High quality video and graphics scaling up and scaling down	Yes	Yes	Yes	Yes
	Frame rate conversion	Yes	Yes	Yes	Yes
	Intelligent color adjustment (Discrete RGB color adjustment, Hue, saturation, sharpness, contrast, brightness and 4 preset color modes)	Yes	Yes	Yes	Yes
System control	Full function Front Panel Keypads & IR Remote controller	Yes	Yes	Yes	Yes
	Cabled IR Receiver Extender	Option	Yes	Option	Yes
	Box ID for easy independent control through IR, RS-232 and Ethernet	Yes	Yes	Yes	Yes
	Embedded RS-232 with DB-9 connector	Yes	Yes	Yes	Yes
	Embedded Ethernet control module with RJ45 connector	Option	Option	Option	Option
	ASCII control protocol over RS-232 and Ethernet	Yes	Yes	Yes	Yes
	One DC 12V/1A trigger output via DC Jack	Yes	Yes	--	--
3 programmable DC 5V/1mA trigger outputs with phoenix connector	--	--	Yes	Yes	
Easy Use	Firmware update via RS-232 connector	Yes	Yes	Yes	Yes
	NO PC required	Yes	Yes	Yes	Yes
	5 selectable Profile settings for difference display modes	Yes	Yes	Yes	Yes
Dimensions	Only GeoBox, not including remote controller, power supply and packing	305x155x45mm, 1.6kg		440x200x45mm, 2.4kg	
Remarks:	eWarp Pro PC software for sophisticated curved image is offered based on request. Additional NRE and license are required.				





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Specifications are subject to change without notice.

