GeoBox Edge Blending Processor

Professional pure hardware edge blending system for projection, no PC is required, low entry barrier, flexible and reliable.

GeoBox is a professional high performance edge blending processor, designed with patented warp and edge blending technology similar to tier one projector makers with easy and friendly user interface. It is standalone system supporting up to 2560°1000 and 3840°1000 and 5840°1000 and 5840°10000 and 5840°1000 an

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 -High end image scaling up/down and format conversion.

 -Image flip, rotation, warp and geometry alignment.

 -Professional Edge blending for flat, curved 360 degrees and irregular curve screen with super high resolution content

 -Edge blending with projector at portrait direction without rotating the content direction.

 -PIP (including 3D PIP) and 16:9 / 2.35:1 aspect ratio conversion.

 -Built-in video wall control function to split, crop, magnify, set overlap pixels and assign location for each projector. No need to add image splitter.

 -Edge blending with the parameters for image fine tune through color, gamma, gain, offset and overlap position shift.

 -Image stacking to increase the brightness on flat or curved screen.

 -Support Blue Ray 1080p @ 24Hz frame packed for Active (shutter) 3D system.

 -Enlarge 3D screen display through GeoBox multiple projector edge blending.

 -Support DM II. 4 standard 3D formats from Blue Ray, Media Player and PC for passive 3D display.

 -Support PG Stereoscopic Player and NVidia 3D Vision 1080p @ 120Hz for full HD passive 3D display.

Compared with PC edge blending system, GeoBox is a pure hardware system with easy, flexible and more reliable capability. Working with PC system, it doesn't occupy any PC CPU resource and let CPU with full power for other operations, such as interactive multimedia without lag.

- Convenient Features for system integrator

 * Able to use low cost projector, no lens shift or edge blend required

 * Reliable and durable design for long term industrial and commercial applications.

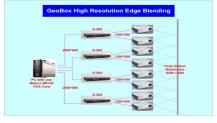
 * With internal grid pattern for quick and easy setup.

 * Friendly user interface, low entry level. No PC is required, more reliable. Lower the cost for installation and after service.

 * ID # for each GeoBox. Convenient for system installation and control.

 * keypad Lock to avoid setting loss due to negligence..





GeoBox Edge Blending products spec comparison sheet with price

Main items	Models	G-102	G-104D	G-104H	G-302	G-502
a Itoliio		Single channel flat screen	Curved screen edge	Curved screen edge	Low cost dual projector flat	Dual channel flat screen
Brief comparison	General description	edge blending	blending with DVI interface	blending with HDMI interface & HDMI loop out	screen edge blending for video image	edge blending
	Video processor	10 bits	10 bits	10 bits	8 bits (4:2:2)	10 bits
	Projector can be controlled	Single	Single	Single	Dual Flat screen, dual projectors,	Dual
	Edge Blending	Flat & Protrait	Curve & Portrait,	Curve & Portrait	for video image only	Flat screen
	Max. projectors for edge blending	15x15	15x15	15x15	1x2	15x15
	Video Loop Out (raw signal from HDMI in) Image Stacking to amplify brightness	Yes	Yes	1x HDMI Yes	1x HDMI Yes	Yes
	Passive 3D display	Yes	Yes	Yes	Yes	Yes
	Active 3D display Warp/geometry alignment	Yes Yes	Yes Yes	Yes Yes	Yes	Yes Yes
	Video wall control for image split/overlap	Yes	Yes	Yes		Yes
	PIP (Picutre in Picture)		Yes	Yes		
	Image flip & portrait edge blending without content	Yes	Yes 1x VGA, 1x DisplayPort, 1x	Yes 1x HDMI, 1x DisplayPort, 1x		2x VGA, 2x HDMI, 1x
Input & Output	Video Input Ports	1x HDMI, 1xDVI, 1x VGA, 1x YPbPr, 1x DisplayPort	DVI-I (Support DualLink DVI /HDMI/VGA)	DVI-I (Support DVI/VGA/HDMI)	1x VGA, 1x HDMI, 1x DVI-D (DVI/HDMI)	DualLink DVI, 1x DisplayPort
	Video Output	1x VGA, 1x HDMI	1x VGA, 1x DVI (DVI/HDMI)	1x HDMI, 1x VGA	2x HDMI	2x HDMI
	Video Loop Out (raw signal from HDMI in)	RCA analog R/L, PC audio		1x HDMI	1x HDMI	
	Audio Input	Jack, HDMI audio	PC audio Jack, HDMI audio	HDMI audio	PC audio Jack, HDMI audio	PC audio Jack, HDMI au
	Audio Output	RCA analog R/L, RCA	RCA digital audio, HDMI	RCA digital audio, HDMI	Analog (RH/LH), HDMI	S/PDIF RCA & Optic, HD
	Support YPbPr video via VGA input port	digital audio, HDMI audio Yes (discrete)	audio Yes	audio Yes	audio 	Yes
	All inputs up to full HD & 1920x1200	Yes	Yes	Yes	Yes	Yes
	Input up to 2560x1600/3840x1080 via DisplayPort W/O	Yes	Yes	Yes		Yes
	compression Input resolution up to 2560x1600 & 3840x1080 via		Yes			Yes
	DualLink DVI W/O compressing Output resolution up to 1080P and 1920x1200	Yes	Yes	Yes	Yes	Yes
	Frame Lock and Smooth Switching mode to eliminate					
	re-sync in projector while timing or input change	Yes	Yes	Yes		Yes
	Programmable input EDID	Yes	Yes	Yes		Yes
	HDCP key for DVI/HDMI/DisplayPort	Yes	Yes	Yes	Yes	Yes
	High speed HDMI 1.4 receiver and output transmitter Pixel base geometry and warp adjustment	Yes Yes	Yes Yes	Yes Yes	 Yes	Yes Yes
Geometry & Warp	Internal/external grid test pattern with different color	Yes	Yes	Yes	Yes	Yes
	Simultaneous warp + edge blending	-	Yes	Yes		
	eWarp PC software tool for sophisticated curve display Image rotation up to +_128 degrees	Yes	Option Yes	Option Yes	Yes	Yes
nage flip and Rotation	Image flip right/left, front/rear, up/down and	Yes	Yes	Yes		
Video Wall	combination with native fidelity Image slice, split, cropping, magnify and location	Yes	Yes	Yes		Yes
	assignment Overlap region from 0~900 pixels	Yes	Yes	Yes		Yes
	Pixel based overlap adjustment in all edges, up to 15x15 matrix displays	Yes	Yes	Yes		Yes
Edge Mask	Image edges masked with black background up to 250 pixels	Yes	Yes	Yes		Yes
Picture in Picture	Scalable PIP up to 1024x768 at any location with selectable aspect ratio and input source	Yes	Yes	Yes	-	
Edge Blending	Edge blending in horizontal and vertical directions (MxN up to 15x15 matrix)	Yes	Yes	Yes	Daul projectors H only	Yes
	Edge blending region from 52~ 800 pixels	Yes	Yes	Yes	Yes	Yes
	+Matrox M series display card for super high resolution	Yes	Yes	Yes		Yes
	edge blending (up to 16x Full HD from one PC) Video wall + Flat screen Edge Blending without PC	Yes	Yes	Yes		Yes
	Video Wall + Curved screen Edge Blending without PC		Yes	Yes		
	Edge blending with projector located at portrait position.	Yes	Yes	Yes		
	No signal source rotation is required Edge blending fine tune: color, gamma, gain, offset,					
	position shift, black level	Yes	Yes	Yes	Yes	Yes
Video processing	Advanced full 10 bits 3D de-interlace, smooth edge algorithm and 3:2/2:2 film mode detecting and recovery High quality video and graphics scaling up and scaling	Yes	Yes	Yes	4:2:2 processing	Yes
	down Color adjustment (RGB color adjustment, Hue,	Yes	Yes	Yes	(Good for video only)	Yes
	saturation, sharpness, contrast, brightness, preset modes, discrete RGB)	Yes	Yes	Yes		Yes
System control for easy use	Full function Front Panel Keypads & IR Remote	Yes	Yes	Yes	Yes	Yes
	Cabled IR Receiver Extender (up to 20 meters) Box ID for easy independent control through IR, RS-	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes
	232 or Ethernet. Ethernet module for control and operation via LAN or WiFi (NB, iPad, Smart Mobile)	Option	Option	Option		Option
	ASCII control protocol over RS-232	Yes	Yes	Yes	Yes	Yes
	12V Trigger output 3x programmable DC 5V/1mA trigger outputs with	Yes				
	phoenix connector				=	Yes
	Firmware update via RS-232 connector	Yes	Yes	Yes	Yes	Yes
	5 Display Profiles preset and recall	Yes	Yes	Yes	Yes	Yes
	OSD lock to prevent wrong operation by negligence	Yes	Yes	Yes	Yes	Yes
	No PC, OS or special tool required	Yes	Yes	Yes	Yes	Yes
	Ear mount bracket in 1U rack	Option	Option	Option	Option	Option
Dimension & weight	Only Box body, not including remote controller, power	303x155x45mm, 1.6kg				