



# PRODUCT LINE-UP

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**GeoBox Multi-function video processor**

2023 Fall



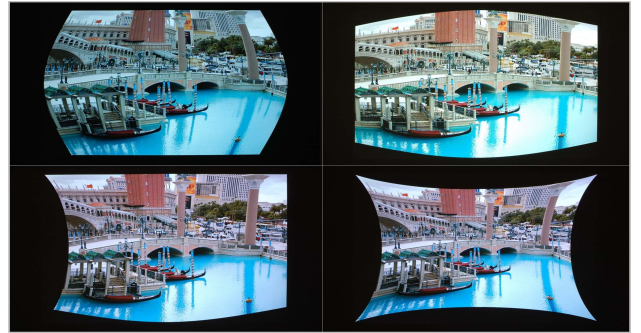
# GeoBox for Projector Applications

Edge Blending

## Edge Blending



## Warp/Geometry Alignment

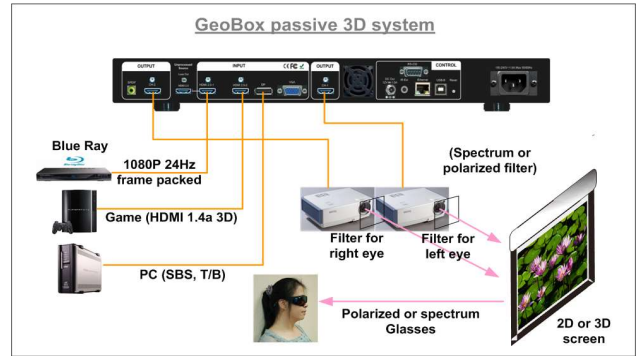


Video Wall

## Projection Mapping

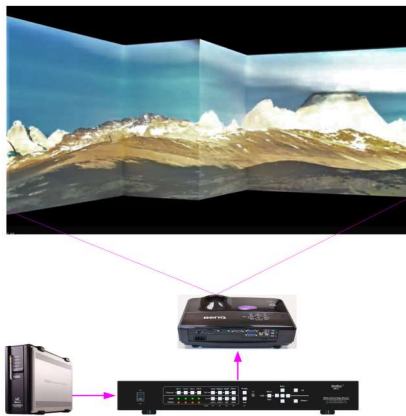


## Active/Passive 3D Display



Multi-function VideoProcessor

## Corner Wall display



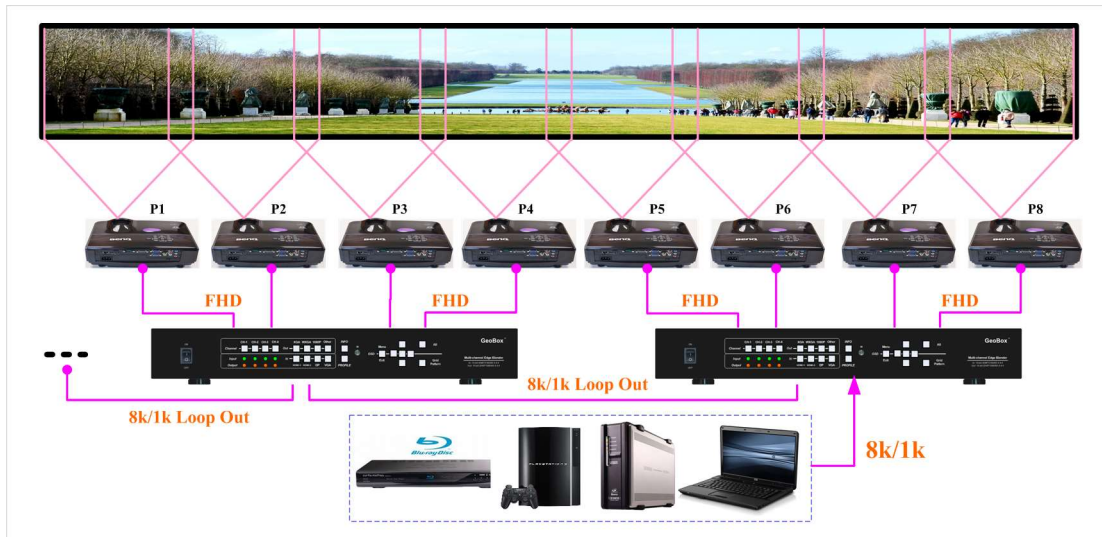
## Immersive Display



## Big Scale Simulation system



Simple system connection. No PC or additional device is required.

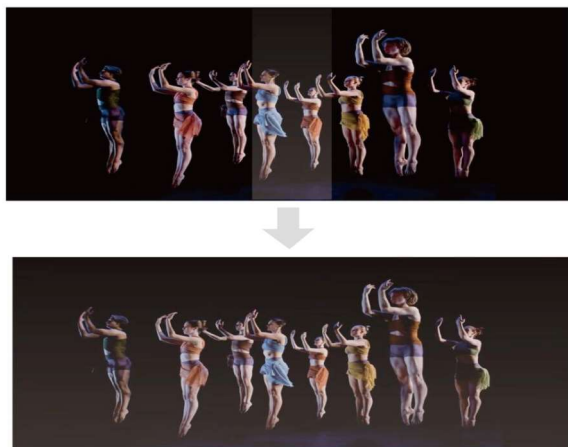


Flexible Multi-video Display

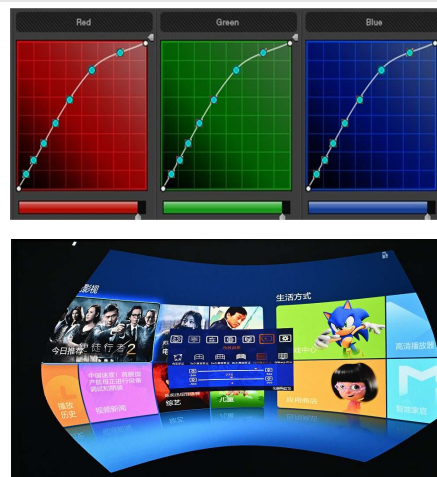


Advanced Edge Blending Technology

9 region black level uplift



Edge mask & Independent RGB gamma correction



# Edge Blending Processor

## UD 104



## M810 / M800Ex



## G814



## G812

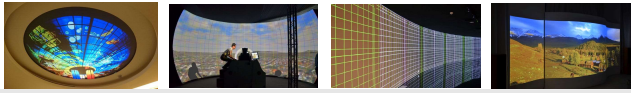


## Edge Blending Processor Comparison Chart

Function/Series	<u>UD100</u>	<u>M810</u>	<u>M800Ex</u>	<u>G810</u>	<u>UD101 Lite</u>	<u>M811 Lite</u>
Model #	UD101 (1 CH) UD102 (2 CH) UD103 (3 CH) UD104 (4 CH)	M811 (1 CH) M812 (2 CH) M813 (3 CH) M814 (4 CH)	M801Ex (1 CH) M802 Ex (2 CH) M803 Ex (3 CH) M804 Ex (4 CH)	G812 (2 CH) G814 (4 CH)	UD101L (1 CH) (Warping Processor)	M811L (1 CH) (Warping Processor)
I/O resolution	4k2k/60, 8k2k/30 IN 4k2k @60 OUT	4k2k/60, 8k2k/30 IN WUXGA OUT	4k2k/60, 8k2k/30 IN WUXGA OUT	4k2k/60, 8k1k/30 IN WUXGA OUT	4k2k/60, 8k2k/30 IN 4k2k @60 OUT	4k2k/60, 8k2k/30 IN WUXGA OUT
Input port	HDMI 2.0, DP1.4	HDMI 2.0, DP1.2, VGA	HDMI 2.0, DP1.2, VGA	HDMI 2.0, DP1.2, VGA	HDMI 2.0, DP1.4	HDMI 2.0, DP1.2, VGA
Max. input resolution	7680*2160/30 7680*1200/60	7680*2160/30 7680*1200/60	7680*2160/30 7680*1200/60	7680*1200/30	7680*2160/30 7680*1200/60	7680*2160/30 7680*1200/60
Max. Output	4096*2160	1920*1200 2048*1080	1920*1200 2048*1080	1920*1200 2048*1080	4096*2160	1920*1200 2048*1080
Loop out port	HDMI 2.0	HDMI 2.0	HDMI 2.0	HDMI 2.0	HDMI 2.0	HDMI 2.0
Edge Blending	Same	4 Edges, H=1920, V=1200	Same	Same	NO	NO
Black level uplift	Yes	Yes	Yes	Yes	NO	NO
Gamma Correction for overlap color fine-tune	Yes	Yes	Yes	Yes	NO	NO
Edge Mask	Yes	Yes	Yes	Yes	NO	NO
PIP/POP	PIP/POP & Quad-View	Yes	NO	No	PIP/POP & Quad-View	Yes
System control	IR/Keypad/RS232/ USB/ Ethernet	IR/Keypad/RS232/ USB/ Ethernet	IR/Keypad/RS232/ USB/ Ethernet	IR/RS232/USB/ Ethernet	IR/Keypad/RS232/ USB/ Ethernet	IR/Keypad/RS232/ USB/ Ethernet
PC Tool	GCT	GCT	Gwarp3	GCT	GCT	GCT
Geometry alignment	Up to 17x9 with 120x68 fine-tune,	Up to 17x9 with 120x68 fine-tune,	IR controller up to 9x5 PC Tool: 17x17	Up to 17x9 with 120x68 fine-tune,	Up to 17x9 with 120x68 fine-tune,	Up to 17x9 with 120x68 fine-tune,
Projection mapping	No	No	Yes	No	No	No

# M811 M812 M813 M814

Modularized 1-4 CH 8k/2k 30fps, 4k/60 60fps  
Seamless Edge Blending Processor

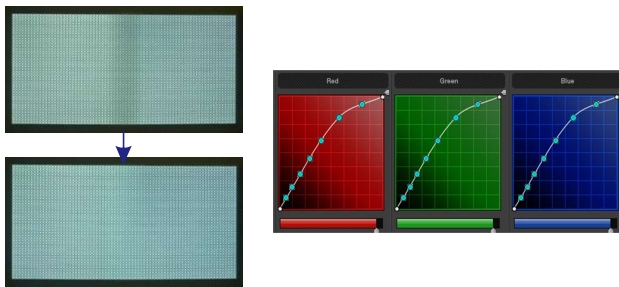


## Modularized design

- Select different models based on the number of the projector: M811 (1-CH), M812 (2-CH), M813 (3-CH), M814 (4-CH)
- All models can be cascaded through loop out daisy chain connection.

## Independent RGB Gamma correction

Independent RGB gamma correction to get optimized image quality.

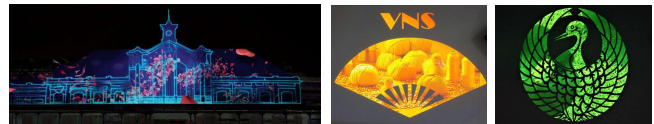


## Flexible configuration



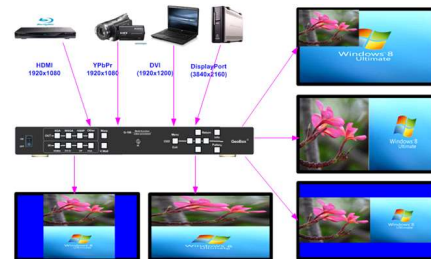
## Projection mapping (in M800Ex models)

Image mask at any location of the image through upload simple pattern to provide professional projection mapping.

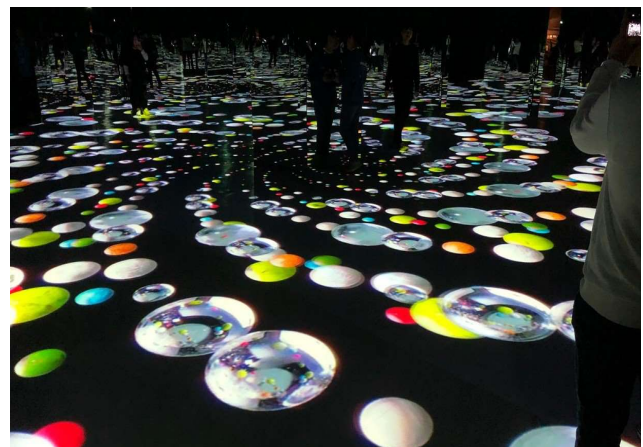
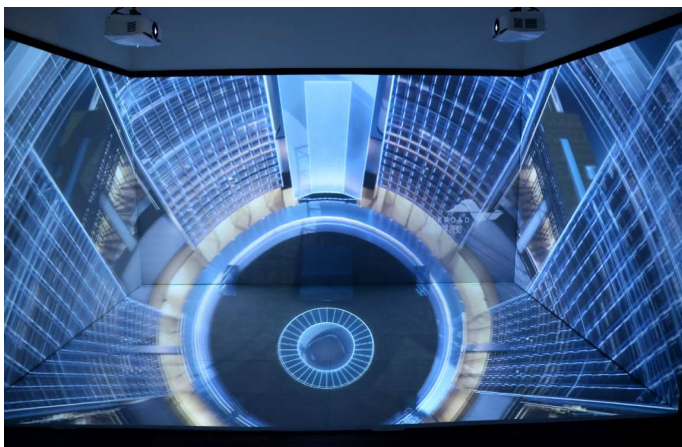


## PIP / POP (PBP)

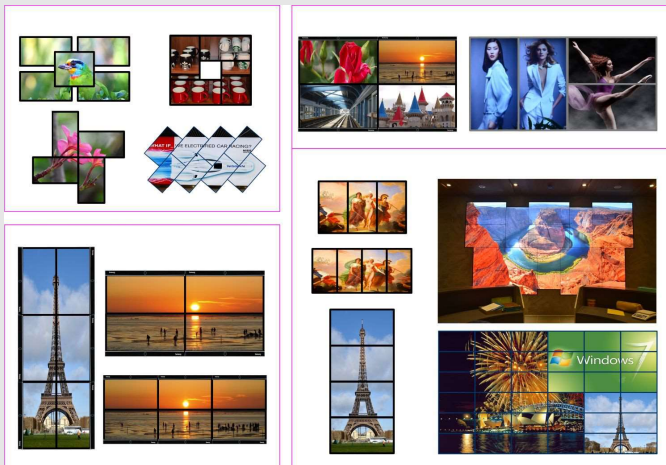
- PIP/POP at landscape and portrait position.
- Flexible PIP position, aspect ratio, cropping position and size from 160\*90 to 1920\*1200.



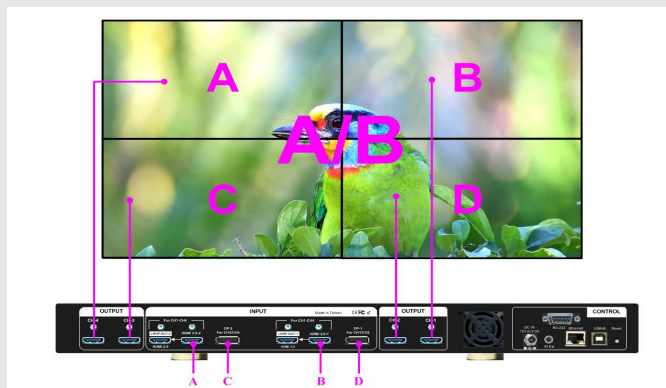
## Immersive display



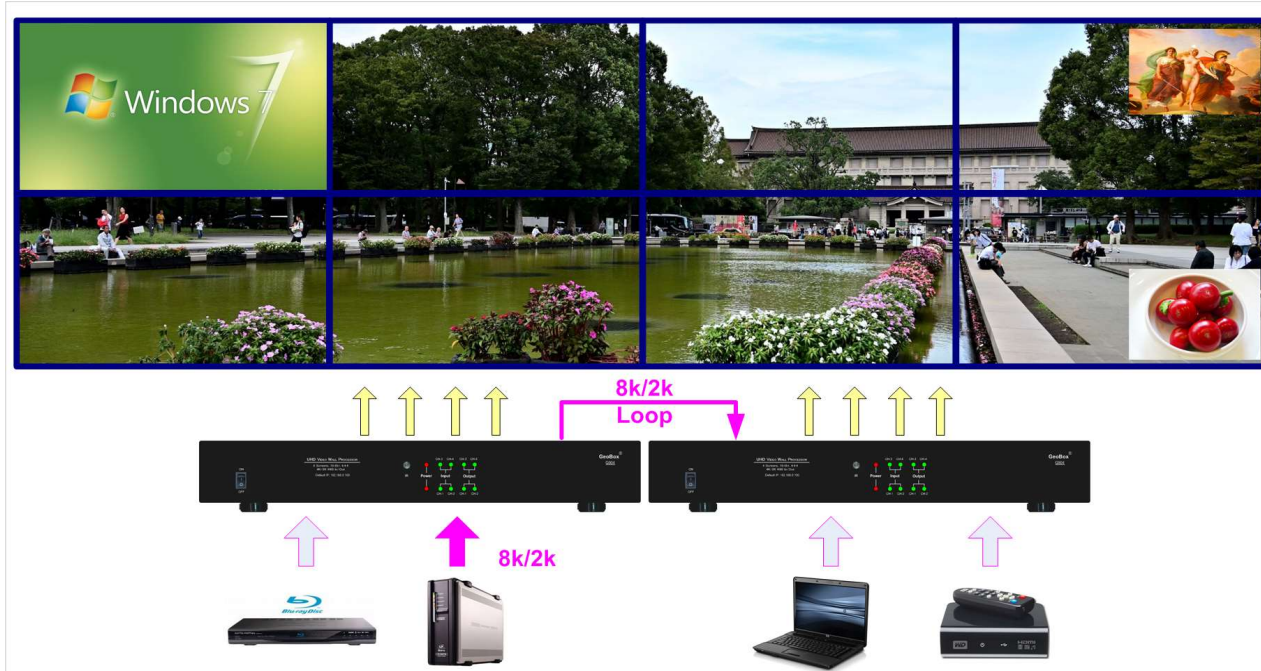
## Flexible system for all kinds of video wall



## G406 with matrix switch function

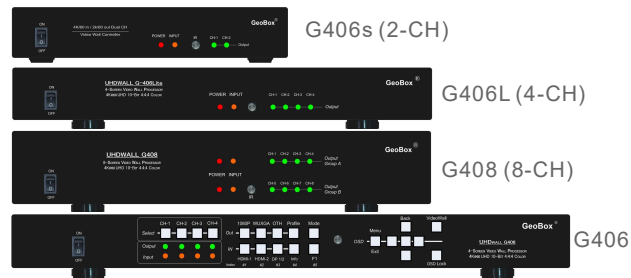


## True 8k video wall with pixel to pixel video quality



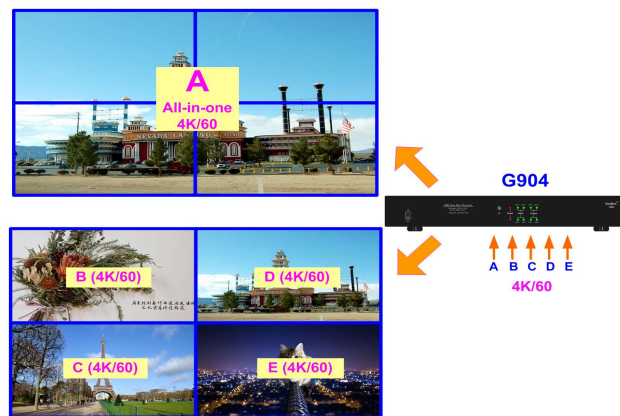
## G408/G406/G406L/G406s

4k in / 2k out Creative video wall controller with monitors at portrait and landscape directions



## UHD video wall controller

G900 supports UHD in/out. Display all-in-one big image or discrete content in each monitor.



# G413

G413 is world unique product that can create asymmetric video wall with LCDs at any angle and position without PC system. User can use preset modes selected from OSD menu or remote controller to adjust the image position.



## Creative asymmetric video wall

Create irregular video wall by Pre-set mode or manual mode for LCD at any location and angle.



## PIP / POP

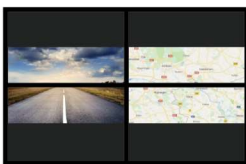
PIP/POP can be implemented across 4 outputs with different PIP size and location.



PIP with 2 TV at top/down flip



POP Full screen display



POP Maintain original aspect ratio



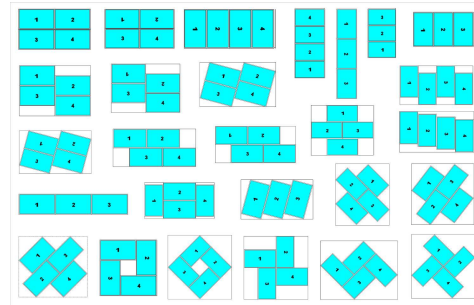
Creative irregular TV wall with PIP

## Application example



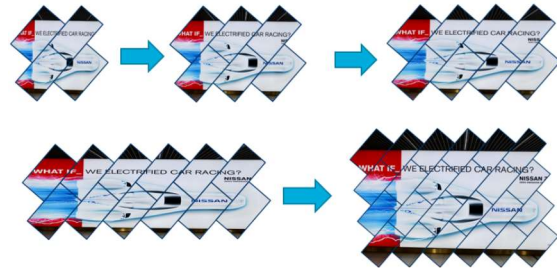
## G413 Flexible configuration

27 predefined display modes selected by OSD. Customized video wall with LCD at any location.



## Multiple units cascaded

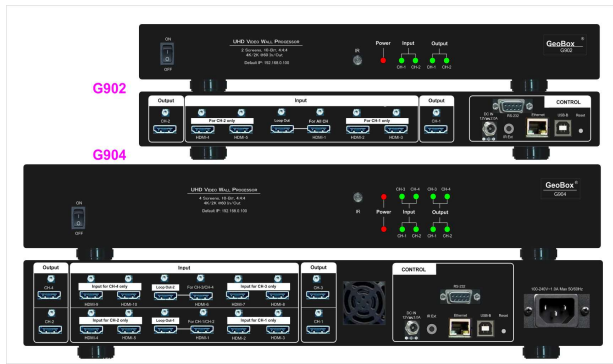
Multiple unit cascade is available for large scale display. Preset modes can be used for multiple unit cascade to save setup time.



## Image continuous rotation

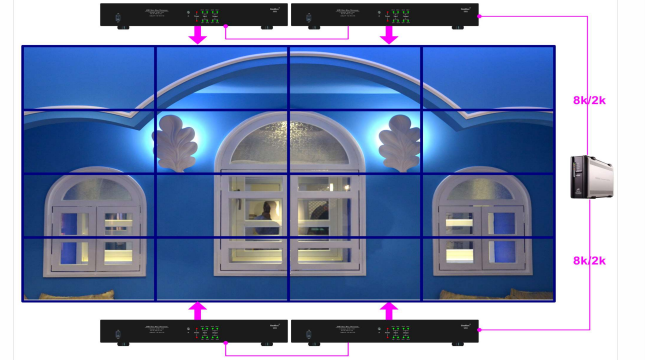
+/-180 degree image rotation with one degree interval





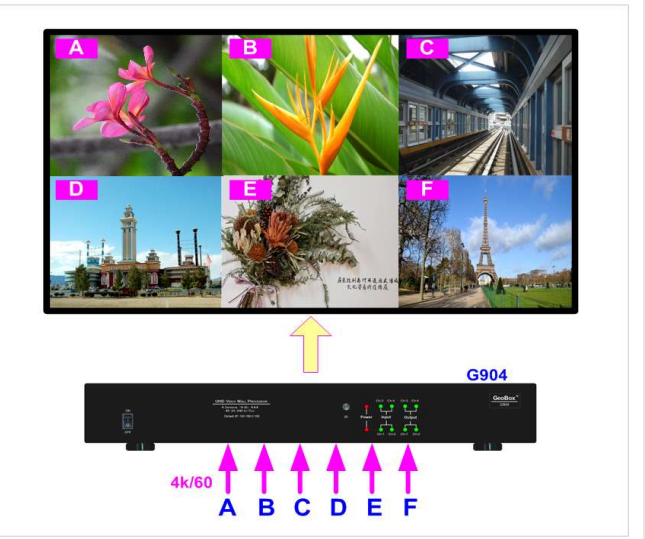
### 8K/4k video wall with pixel to pixel quality

G900 can support 8k/2k input with 4k/60 output in each output channel. True 8k2k 60Hz video wall with pixel to pixel quality can be achieved by cascading with multi-units.



### Multi-windows display in one monitor

One G904 can display up to 6 windows in one monitor. Multiple units cascade will provide unlimited windows, such as 9/12/16...



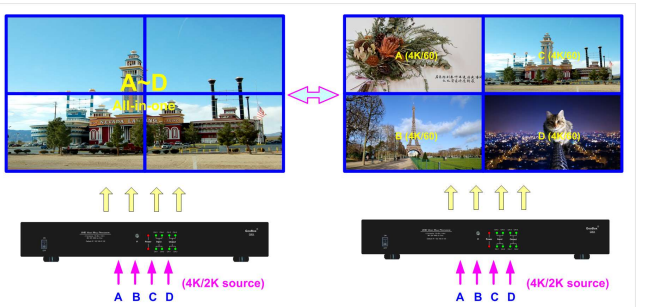
# G902/G904

New generation 8k/2k input, 4k/2k 60fps output Video Wall controller with multi-viewer function

G900 is 4k monitor video wall controller and ideal front end processor for large scale display to support 8k/2k input and programmable output resolution up to 7680x2160. It can also serve as MultiViewer. It also provides PIP/POP, 3/4 split views function. Three models in this series: G901: one output channel, G902: two channels, M904: 4 channels.

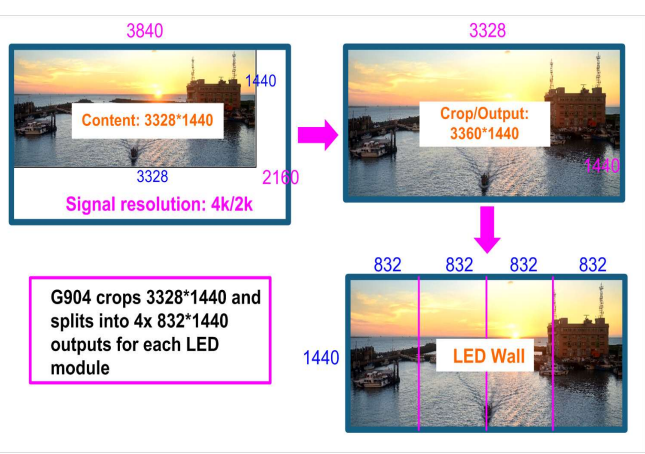
### 4k/60 discrete content in 4k monitors

Flexible to create video wall with one content across entire video wall or discrete true 4k/2k content in each monitor with pixel to pixel video quality.



### LED display front end processor

G900 can crop accurate image position with programmable output resolution and refresh rate up to 7680\*2160/120Hz for any big scale display.





## Warp and geometry alignment



## Image rotation, crop and aspect ratio adjustment

iPad/iPhone image can be rotated with full screen display on portrait monitor.

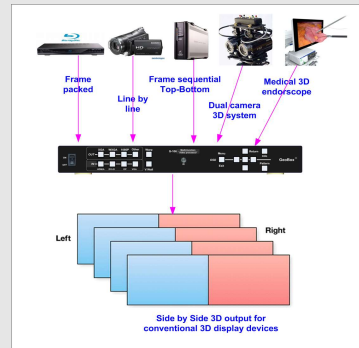


## UD101L/M811L Warping Box

UD101L is for UHD and M811 is for WUXGA, single channel processor for image warping, rotation, PIP/POP and 3D format conversion.



## G901 Medical 3D format converter



All HDMI 3D formats including line by line and dual camera 3D formats can be converted into frame sequential, side by side or Top/Bottom 3D formats.

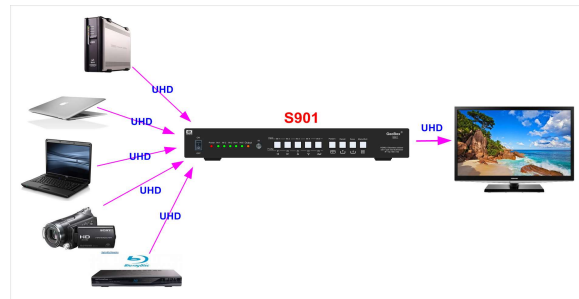
## G901 Front end processor



Seamless switch with quad MultiViewer  
 - Input: 3x HDMI 2.0b + 2x DP 1.4  
 - Output: 1x HDMI 2.0b, programmable output resolution and refresh rate..  
 - PIP/POP/3/4 split views 3D format conversion

## S901 Seamless switcher with Quad views

S901 has the same function as G901 but add front keypad for easy input selection and operation. It is good for Live program.



## Front end processor for projector edge blending system and video wall



Profile 1: All-In-One+PIP

Profile 2: Side by Side

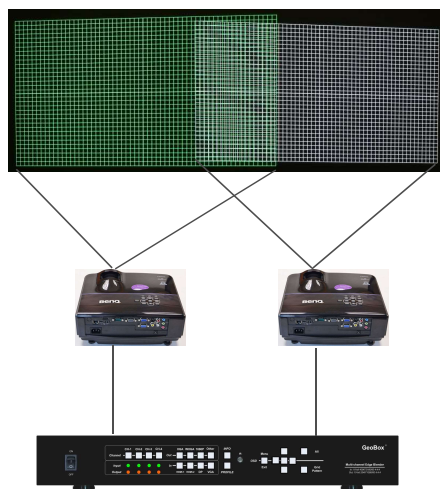
Profile 3: 16:9 aspect ratio



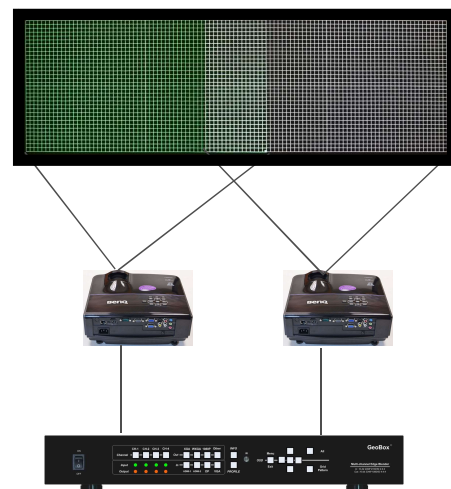
G901/S901 serves as seamless switcher and provide PIP/POP/3/4 split views. Different display profiles can be saved and recalled at any time by IR control, network and RS232.

Category		Edge Blending processor						4K Edge Blending processor			
Model name		G812	G814	M811	M812	M813	M814	UD101	UD102	UD103	UD104
Video input	HDMI	2	4	2	4	6	8	3	6	9	13
	DisplayPort	1	2	1	2	3	4	1	2	3	4
	VGA	1	2	1	2	3	4				
Video output	HDMI (2k/1k)	2	4	1	2	3	4	1	2	3	4
	HDMI Loop Out	1	2	1	2	3	4	1	2	3	4
Max. input 8k/1k/30, 4k/60 4:4:4		8k/1k	8k/1k	8k/2k	8k/2k	8k/2k	8k/2k	8k/2k	8k/2k	8k/2k	8k/2k
Max. output		2048*1080	2048*1080	2048*1080	2048*1080	2048*1080	2048*1080	4k/2k/60	4k/2k/61	4k/2k/62	4k/2k/63
Front panel button				*	*	*	*		*	*	*
Latency		33ms									
HDCP 1.4/2.2		*	*	*	*	*	*	*	*	*	*
Main function	Image split	●	●	●	●	●	●	●	●	●	●
	Geometry alignment	●	●	●	●	●	●	●	●	●	●
	Edge Blending	●	●	●	●	●	●	●	●	●	●
	Rotation and flip	●	●	●	●	●	●	●	●	●	●
	PIP / POP			●	●	●	●	●	●	●	●
PC Tool	GCT	●	●	●	●	●	●	●	●	●	●
	Galign										
	UHD Wall Manager										
Warranty period		2 years (Max. up to 5 years)									

Before geometry alignment

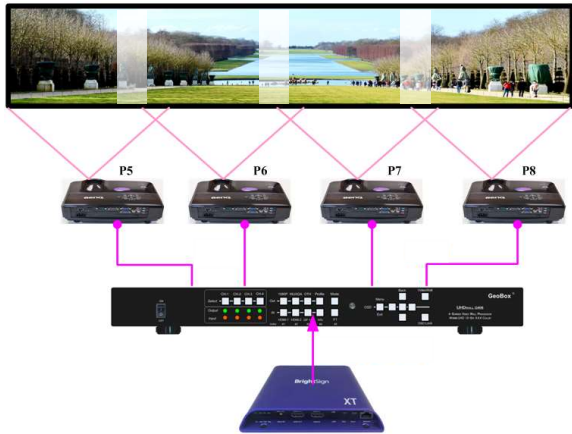


After geometry alignment

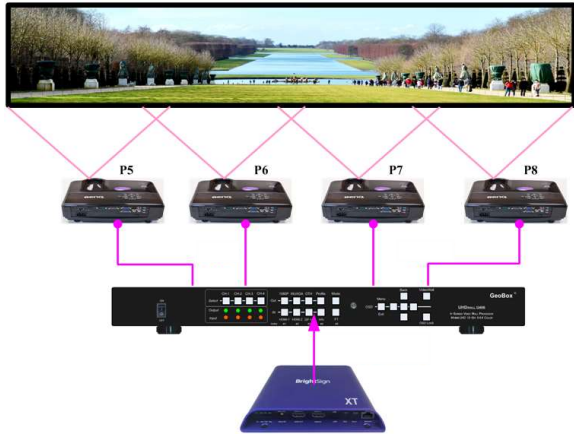


Video Wall 4k in/ 2k out				Video wall 8k in/4k out		Creative	Multi-function Image processor			Mini Box	
G406	G406S	G406L	G408	G902	G904	G413	S901/G901	UD101L	M811L	G111	G112
2	1	1	2	5	10	2	3	3	2	1	1
2						1	2	1	1		
						1			1		
4	2	1	2	2	4	4	1	1	1	1	1
2	1	1	2	1	2	1		1	1	1	1
8k/1k	8k/1k	8k/1k	8k/1k	8k/2k	8k/2k	8k/2k	8k/2k	8k/2k	8k/2k	4k/2k/30	4k/2k/30
2048*1080	2048*1080	2048*1080	2048*1080	4k/2k/60	4k/2k/60	1920*1200	4k/2k/60	4k/2k/60	2048*1080	2048*1080 1	2048*1080 2
*								*	*		*
16ms						33ms	16ms	33ms	33ms	33ms	33ms
*	*	*	*	*	*	*	*	*	*	*	*
●	●	●	●	●	●	●	●		●	●	●
									●	●	●
											●
●	●	●	●	●	●	●	●		●	●	●
				●	●	●	●		●		
									●		
						●					
●	●	●	●	●	●		●				
2 years (Max. up to 5 years)											

Before Edge Blending



After Edge Blending





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1100 Town & Country Road,  
Suite 1250, Orange, C2868  
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