

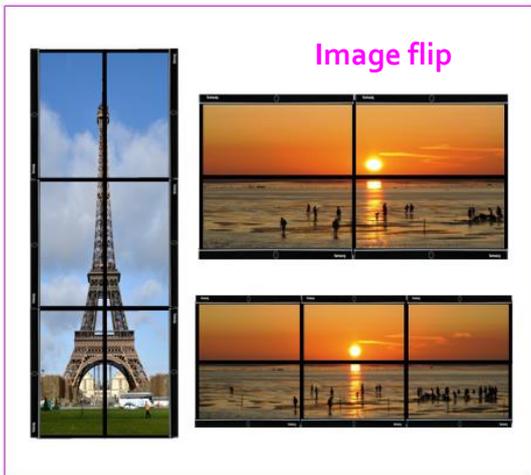
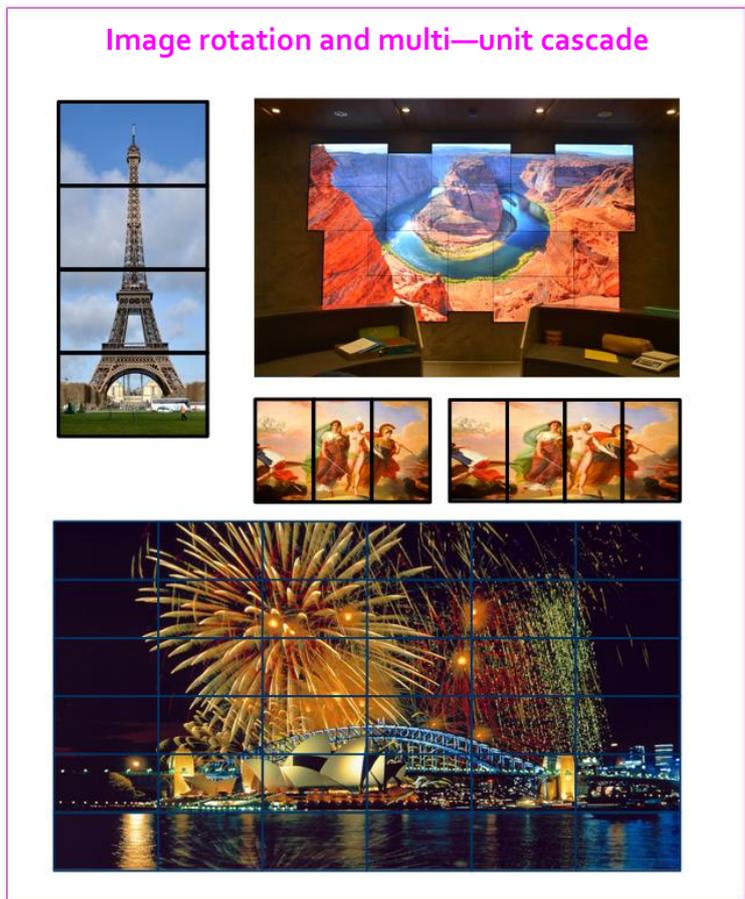
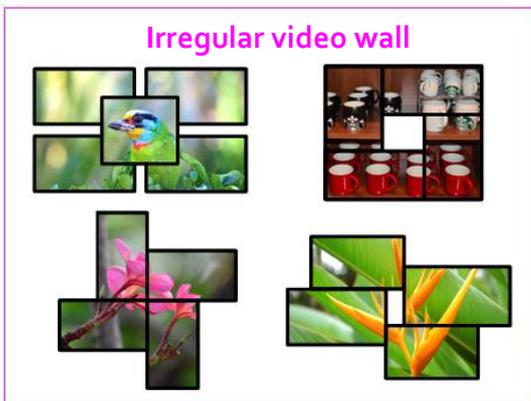


The absolute opposite of ordinary

G406Lite 4K/60 video wall controller

1 in / 4 out in one box, HDMI 2.0 / HDCP 2.2 input up to DCi/UHD 4K/60 fps, 10-bit processor, 4:4:4 Chroma sampling, Independent rotation/ scaling/ cropping and color adjustment

Application examples



(Any type & size of LCD. All the setups can be achieved through only remote controller without PC system)

DCi/UHD 4k/60/4:4:4	HDMI 2.0	HDCP 2.2/1.4	HDR Ready	10-bit High-end scaler	Cadence Film 3:2 / 2:2	3D Motion De-interlace	Deep Color xvYCC/12-bit
Mosaic Irregular wall	Multi-Unit Cascade	Flexible Aspect Ratio Bezel Correction	Rotation Landscape Portrait	Loop Out Daisy chain	Control IR/USB/RS232 /Ethernet	Projector Output overlap	RoHS CE FCC



G406L Quad channel controller

GeoBox G406L is simplified version of G406 Video Wall controller. It incorporates 1x HDMI 2.0 input and 1x HDMI 2.0 loop-through port to support up to DCi/UHD 60 fps input signal as well as four synchronized Full HD outputs. Each output has independent image rotation/flip, scaling, cropping and color adjustment outputs to allow great freedom in creating any scale video wall with different LCD arrays. Support true 8k/4k video wall through multiple 4k input source with pixel to pixel output quality.

It is pure hardware, standalone system with easy-of-use. All operations can be implemented through IR remote controller, USB, RS232 or Ethernet. No additional PC or appropriate software tool is required.

Infinite creative configuration

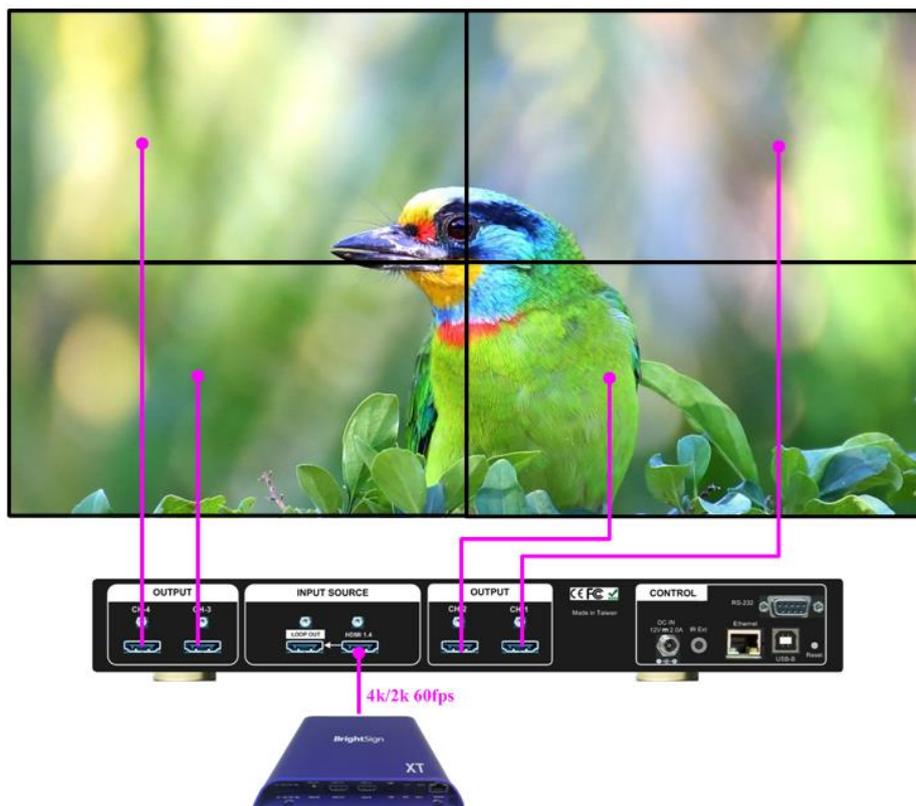
- ✧ 1x HDMI 2.0 inputs, 4x WUXGA/1080p outputs with flexible multi-unit cascade.
- ✧ Support up to 4096x2400@60Hz input.
- ✧ All inputs and outputs support HDCP 1.4/2.2.
- ✧ One Loop-through port for multiple units cascade in any scale display.
- ✧ Pixel base position alignment up to ± 900 pixels in H&V for flexible image capture, cropping, position alignment, bezel compensation & irregular video wall.
- ✧ Set overlap output up to 900 pixels for projector edge blending application.
- ✧ Independent Image color adjustment in each channel.
- ✧ Independent image rotation and flip/mirror in each channel for variable landscape, portrait and irregular video wall display.
- ✧ Selectable output resolution and programmable EDID to optimize video quality.
- ✧ Flexible aspect ratio adjustment in each edge up to ± 900 pixels.
- ✧ Frame rate conversion and 50Hz in / 50Hz out to keep video quality without artifact.
- ✧ Frame-Lock function to get perfect synchronization among output channels.
- ✧ Support HDR high dynamic Range color input signal.
- ✧ Easy setup via IR, USB, RS232 & Ethernet. No PC is required.
- ✧ Ready for 24/7 working environment.

Specifications

- ◇ Input: 1x HDMI 2.0b
- ◇ Output: 4x HDMI up to 1080P & WUXGA
- ◇ 1x HDMI 2.0 loop out port for multiple unit cascade & daisy chain connection.
- ◇ HDCP V2.2/V1.4 compliant.
- ◇ Max. input resolution: 4096x2400 @60Hz
- ◇ Support non-VESA STD input timings.
- ◇ Support pixel to pixel 8k/4k display.
- ◇ Selectable output up to 1920x1200 60Hz.
- ◇ 4:4:4 Chroma sampling, 30 Color bits, 12-bit RGB gamma CLUT
- ◇ Support sRGB & xvYCC color processing & 8/10/12-bit deep color.
- ◇ 3:2/2:2 cadence, low angle smooth algorithm, high quality scaling engine.
- ◇ Flexible aspect ratio adjustment in each edge up to +_ 900 pixels.
- ◇ 50Hz in/out to avoid video artifact.
- ◇ 10-bit processor, frame rate conversion.
- ◇ 3D motion adaptive de-interlace.
- ◇ Frame lock for synchronized outputs.
- ◇ High Dynamic Range (HDR) support: SMPTE ST-2084, SMPTE ST-2086.
- ◇ Individual 90/180/270 rotation, flip, cropping, scaling & color adjustment in each channel.
- ◇ Embedded HDMI audio in each output.
- ◇ Selectable and programmable EDID.
- ◇ ESD Protection: ±8kV (Air-gap discharge), ±4kV (Contact discharge).
- ◇ DC 12V/1.1A, max. 13w, (100-240 VAC PSU)
- ◇ Working environment: 45° C, 10-90% RH
- ◇ Control: IR, RS232, USB, Ethernet
- ◇ Dimensions: 330mm*190mm*36mm, Weight: 1.5 kg
- ◇ CE/FCC/RoHS/Green Certified
- ◇ 2 Year Warranty, paid extension is available

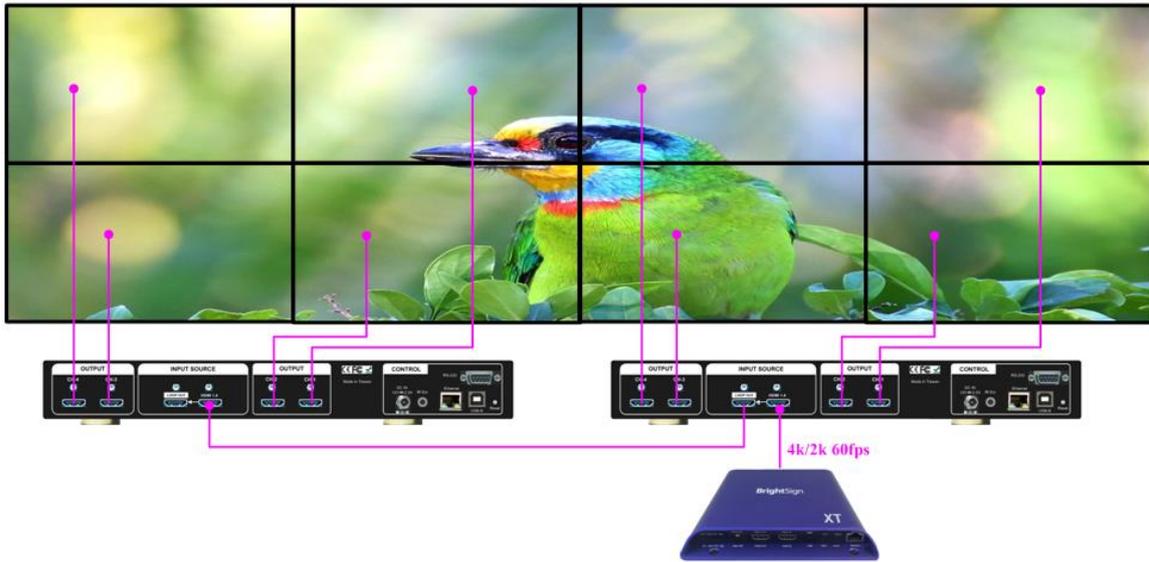
A. Single G406L applications

Configuration for 2x2 video wall with one G-406L:



B. Multiple units cascade applications

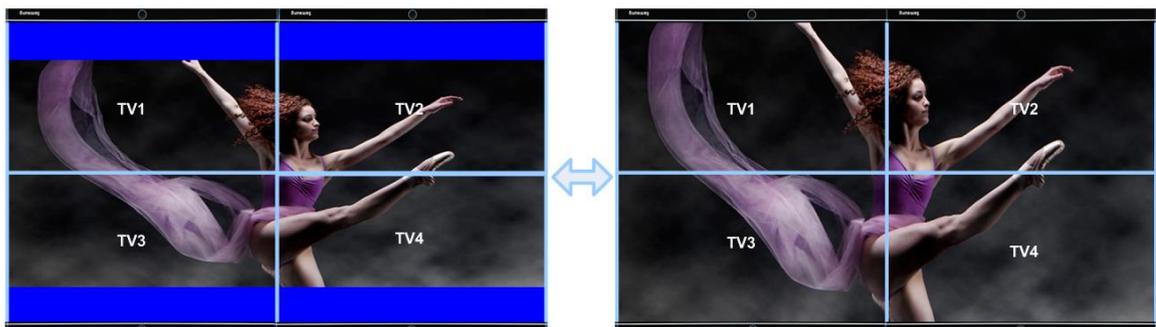
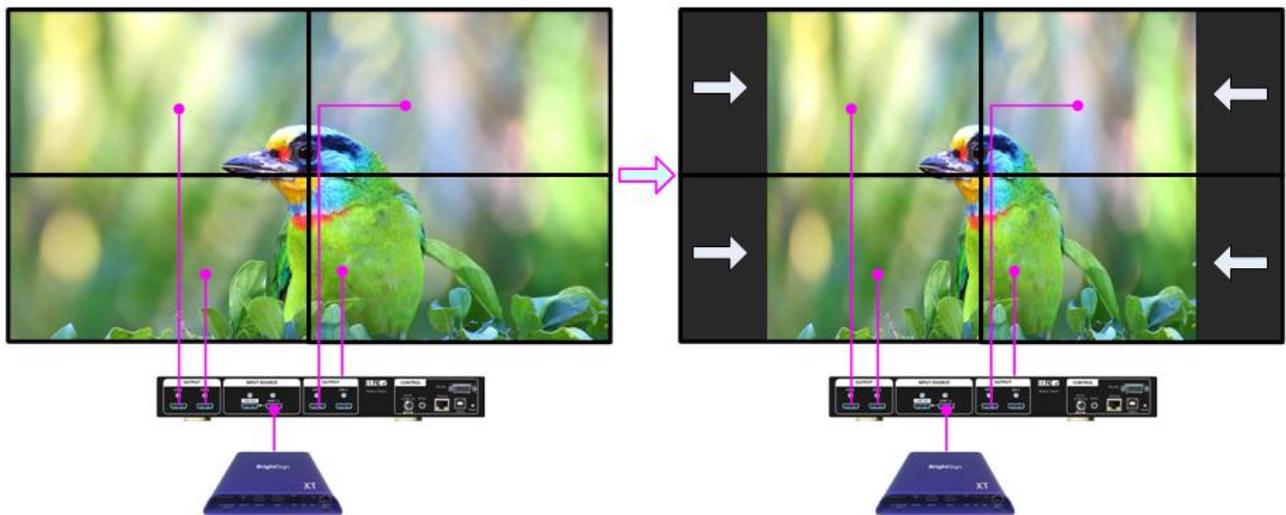
Example for 2 units of G406L application



- Any LCD can be independently at portrait or landscape position for irregular video wall.

C. Flexible Aspect Ratio Adjustment

User can shrink the image with black borders or to stretch the image in specific direction to compensate the aspect ratio difference between video wall and the content. The Maximum adjustment range is +_ 900 pixels in each edge.



D. Irregular Video wall

Each output channel can be rotate separately. User can use Video wall function to split the image and adjust Overlap value to align all image together to because seamless creative video wall. No limitation in panel size and bezel dimensions.



E. Split image for projector with embedded blending function

Two GeoBox outputs with redundant data in overlap region



Projected image are overlapped and blended by projectors



After projector edge blending, resulting seamless image





F. Limitation in image rotation / flip mode

Image rotation at 90/180/270 degrees and RH/LH or Top/Bottom flip is only available for input resolution not larger than 3840x2400 @30Hz.

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