

# Video Wall Controller



Professional pure hardware video wall controller with flexible input connection and video switcher function. No PC is required, low entry barrier, flexible and reliable. Below features are integrated in different models:

- True 10-bits 4:4:4 full sampling high end video processor with 3D motion adaptive de-interlace
- Multiple inputs for connection with PC, Blue Ray, Media player, Game console...
- One processor controls up to 4 LCD and can be cascaded up to 15x15 matrix displays.
- Support up to 4k/2k @30Hz or 2560x1600/3840x1080 @60Hz input signals.
- Pixel by pixel bezel compensation.
- Arbitrary cropping any image area and display.
- Up to +\_900 pixels 4 edge overlap setting for irregular video wall and projector edge blending.
- Flexible aspect ratio adjustment. Display 2.35:1 movie on 16:9 display without blanking borders.
- Image 180° flip to support traditional TV installed at upside down position.
- Support LCD with different size, resolution, position, rotation angle and bezel size for irregular video wall.
- Integrated with 4k/2k loop out port for daisy chain connection. No HDMI splitter is required.
- G-403 provides up to 256 preset display modes selected by Dip SW setting with selectable bezel compensation and PIP/PBP function to allow different contents displayed in the video wall.
- Any low cost traditional LCD display or TV can be used for video wall application.



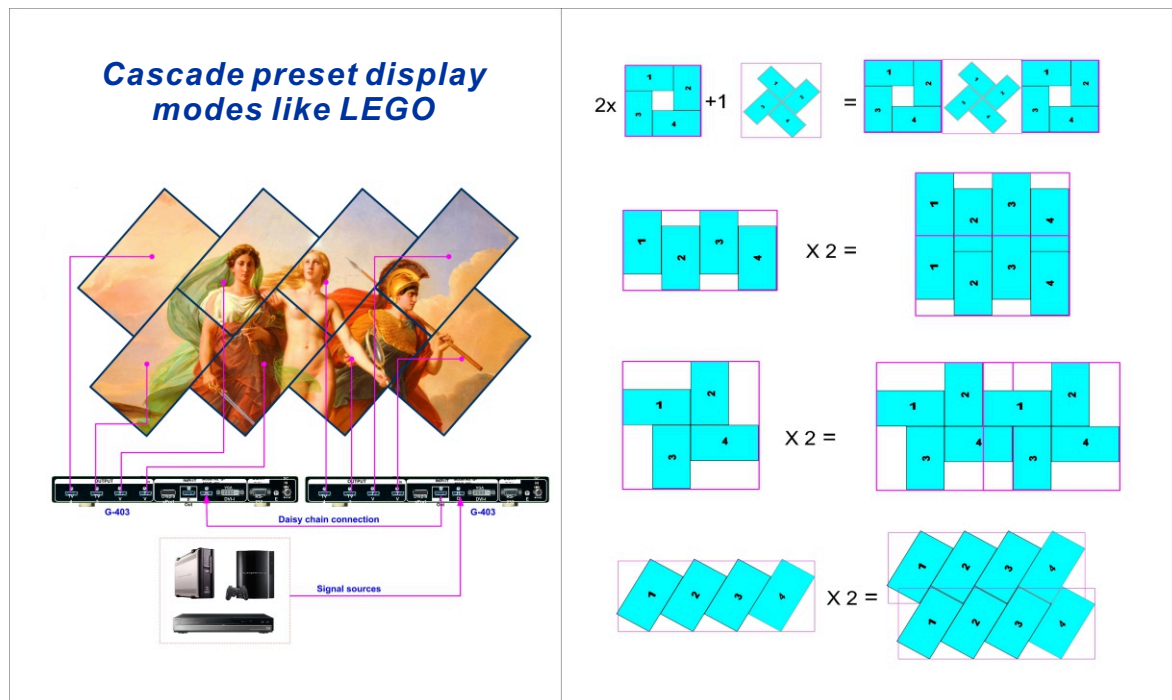
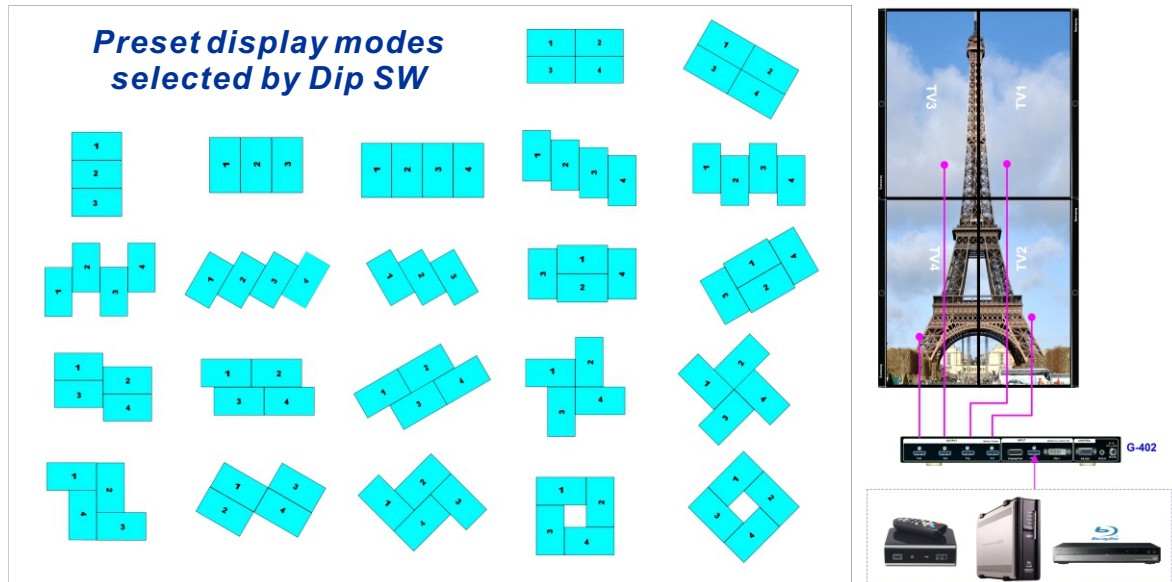
GeoBox application in mobile phone Game video displayed on TV

Mobile phone video can be connected through MHL to TV but viewer can only see small image on TV screen. GeoBox can rotate the image and scale the image to fit full screen of TV. Then user can install TV at portrait position to see high quality full image from mobile phone. Left photo is to show mobile game displayed in 47" TV set at portrait position in press release conference.

## G-402/G-403 Irregular Creative Video Wall Controller

G-402 is designed with preset display modes. User can select different Display modes through Dip switch on front panel. Preset bezel compensation is built-in. No PC, software or IR remote is required. It is an entirely new concept and world easiest creative video wall controller.

Advanced models G-402Ex/G-403 were integrated with 64/256 preset display modes. OSD and remote controller are added to the system to allow multiple units cascaded like LEGO Block. Four G-402Ex/G-403 can easily build a 4x4 UHD 4k/2k high resolution video wall.



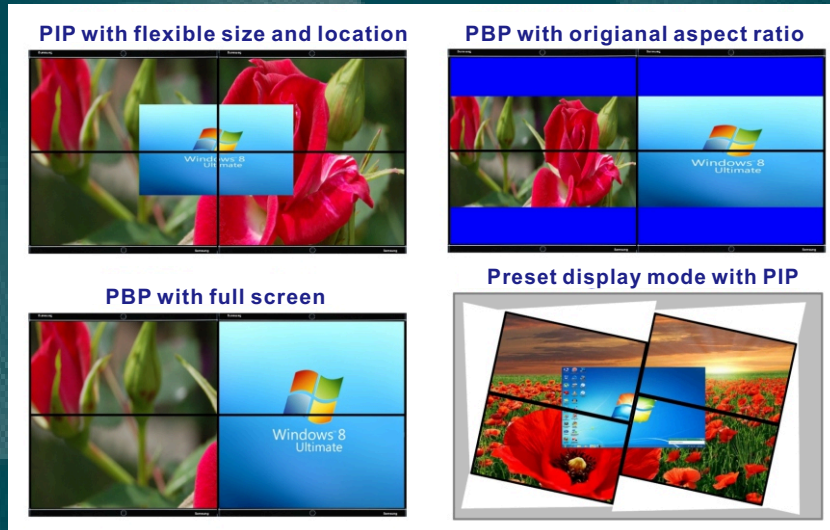


## G-402/G-403 PIP / PBP function

*Conventional TV can be used with top/down flip position to balance bezel size*

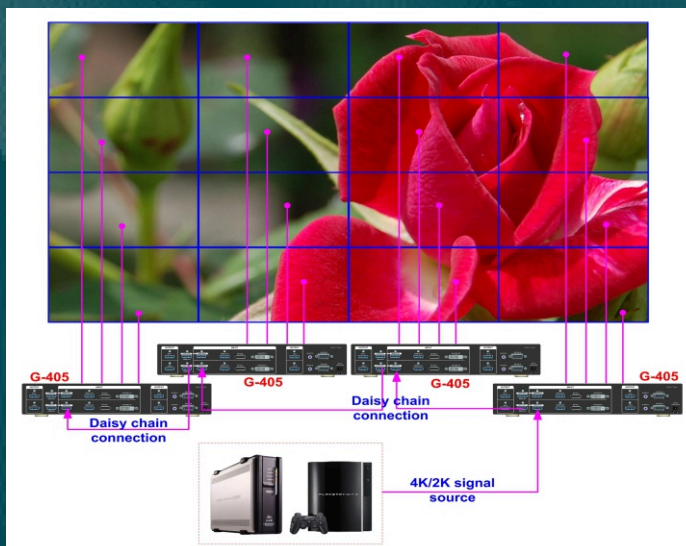
G-402/G403 is designed with PIP and PBP function across complete display:

- Mode: PIP and PBP
- Max PIP size: 1024\*768
- Selectable PIP size and location
- 4 LCDs share one PIP
- PBP mode allows two discrete contents displayed on 4 LCD
- All PIP/PBP setting via Dip SW
- Optional IR remote controller for pixel by pixel flexible PIP size and position adjustment.



## System diagram

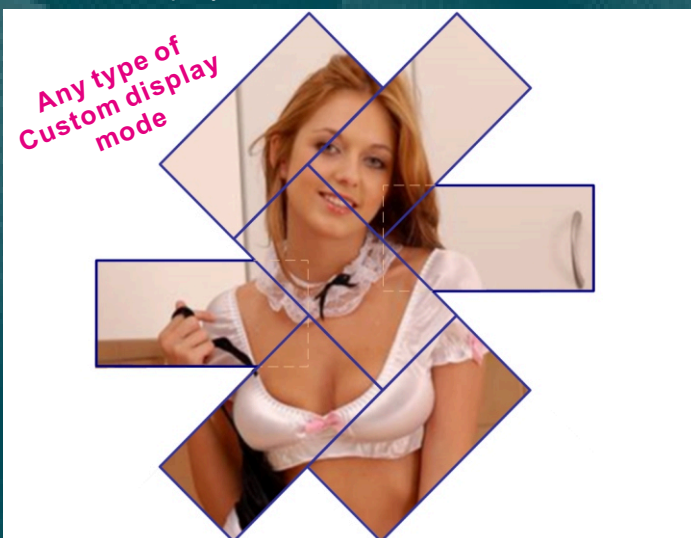
4X4 video wall via 4x G-405 without HDMI splitter



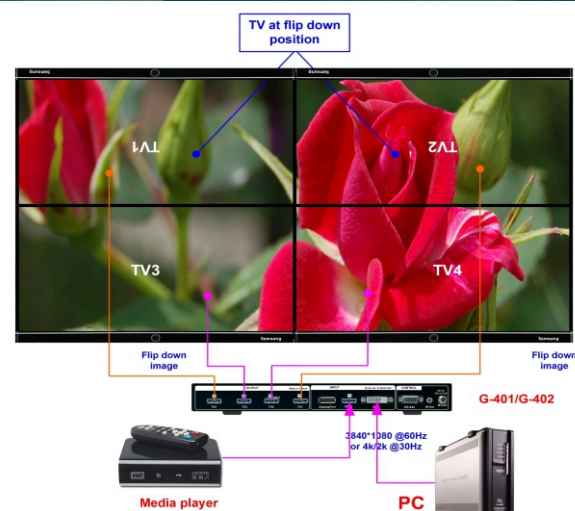
Video wall via 1x G-402 with multiple signal sources



Custom display mode with dual G-402Ex



Video wall with top/down flip for bezel balance



## Product Selection Guide

- G-401/G-405: 8 input and 4 output ports. True 4k UHD video wall supporting LCD with different size, resolution and location. Flexible pixel by pixel bezel correction. Arbitrary area cropping and display. With 180° down flip function to allow TV at top/down position to balance bezel size in video wall. No PIP/PBP function or portrait rotation. G-405 is advanced version of G-401 with 4k/2k loop out port for daisy chain connection in multiple unit cascade application.
- G-402: Easiest, cost effective, with PIP/PBP & preset display modes selected by Dip SW. Supports only LCD with the same size. 4x LCD will share one FHD signal. Variable bezel compensations are preset in different display modes.
- G-402Ex/G-403: The same hardware and preset display modes as G-402 with 4 LCDs as one display unit. Integrated with OSD and remote control for advanced settings. Execute image rotation, flip and cascade multiple units into one big display with 4K/2K input signal. G-403 is advanced version of G-402Ex with 256 preset display modes and 4k/2k loop out port for daisy chain connection in multiple unit cascade application.
- G-303: Dual channel with HDMI interface, same function as G-401
- G-201: Dual channel with DVI interface, same function as G-401
- G-101: Supplementary to G-401/G-402 for image warp, PIP, 90/180/270 flip & arbitrary rotation, with video switch function
- G-202: Low cost processor, supplementary to G-401/G-402 for image warp, 90/180/270 flip and rotation. With one loop out port for daisy chain connection.



**4 channel 4k UHD video wall controller**

### Function and Applications

- True 4k UHD display via one G-401/G-405 and 4x FHD LCD.
- Designed with two processing modules to allow multiple content display.
- Each unit has 8 inputs: 4x HDMI, 2x DP, 2x DVI-I and 4x HDMI outputs
- All inputs support 4k/2k @30Hz and 3840x1080 @60Hz.
- Cascade for up to 15x15 matrix video walls.
- Support LCD with top/down flip, different size, position and resolution.
- G-405 integrated with one 4k/2k HDMI loop out for daisy chain connection.

### Applications:

- True 4k UHD and 8K/4K display.
- Video wall with multiple input sources: PC, Blue Ray, PS4, media player....
- Work with G-101 for arbitrary irregular video wall with PIP and rotation.
- Video wall requires Bezel and position precise adjustment.
- Video wall with different size, resolution and irregular H&V positions.



**4 channel video wall controller with preset display modes selected by Dip SW**

### Function and Applications

- Designed with up to 256 Preset display modes, 4x LCD as one display unit.
- Input: 1x DP, 1x HDMI, 1x DVI-I. Output: 4x HDMI
- HDMI & DP support 4k/2k @30Hz and 3840x1080 @60Hz input.
- PIP/PBP function with selectable size and position.
- Display Modes selected by Dip SW. No PC or software is required.
- Flexible connection with Media player, Blue Ray, PS4 and PC.
- Optional IR control for Cascade like LEGO for 4x2, 4x3, 4x4, 4x5...
- Support only LCD with the same size. Preset bezel corrections.

### Applications:

- Irregular creative video wall via 16:9 LCD with same size and resolution.
- Video wall with multiple input sources and requires PIP/PBP function.
- Low entry level, easy-of-use. No PC is required.



### G-303 Dual channel video wall controller with HDMI output

- Input: 2x HDMI, 1x DualLink DVI
- Output: 2x HDMI
- All inputs support 4k/2k @30Hz and 3840x1080 @60Hz.
- Function is same as G-401 but only has dual outputs.
- Cascade up to 15x15 matrix display.

### G-201 Dual channel video wall controller with DVI interface

- Input: 1x DualLink DVI
- output: 2x DVI
- Input supports 4k/2k @30Hz and 3840x1080 @60Hz.
- Function is the same as G-303.
- Cascade up to 15x15 matrix display.



### G-101 Single channel video processor with PIP, image warp, flip/rotation and video switcher functions

- Input: 1x HDMI, 1x DVI, 1x DP, 1x VGA, 1x YPbPr
- Output: 1x HDMI, 1x VGA (mirrored)
- DP supports 4k/2k @30Hz and 3840x1080 @60Hz input.
- Image R/L, Top/Down, Front/Rear flip, 90/180/270 rotation, warp & PIP.

### G-202 Low cost Single channel video processor with image warp, flip, rotation and loop out port for daisy chain connection

- Input: 1x DVI-I (support DVI-D, VGA, HDMI)
- Output: 1x DVI-D
- 1x DVI-D Loop out port for daisy chain connection.
- Max input/output: 1920x1200 or 1080p