

4k input / 4k daisy
chain connection

GeoBox G-602

Universal Curve Edge Blending Processor



4k UHD全功能曲面融合器

GeoBox G-602 is a pure hardware professional processor for multiple projector and digital signage applications. No PC is required, low entry barrier, flexible and reliable.

G-602 is a dual channel professional curved screen edge blending processor. It was designed for sophisticated edge blending as well as image warping, stacking, projection mapping, irregular video wall and passive 3D...etc.

It was designed with 5 inputs (2x HDMI, 1x DP, 1x DualLink DVI, 1x VGA) and 2x HDMI outputs with optional DVI connectors. Input ports support up to 2560x1600 / 3840x1080 @60Hz and 4k UHD @30Hz resolution with 4:4:4 full sampling. Output resolution supports up to 2048x1080 @60Hz. It is integrated with 10-bit high end processor with motion adaptive de-interlace, 3:2/2:2 pull-down and supports non-VESA standard input timing.

Advanced warp technology is embedded in G-602. User can use front panel keypads and IR controller to perform edge blending and sophisticated geometry alignment up to 17x17 grids without PC. Overlapped area colour uniformity and non-overlapped area black level uplift are also standard function in G-602. Users can see real time geometry and colour adjustment to get optimized results. PC tool and camera-based auto edge blending tool will be available in the future.

HDMI loop out supports daisy chain connection up to 3840x1080 @60Hz or 4k/2k @30Hz and allows large display with multiple G-602 cascaded. Video wall function in G-602 is to crop and allocate source image for each projector. Complete curved edge blending can be achieved without PC, video distributor and splitter.

With G-602, users can replace high end projector with low cost projector without lens shift, warp and edge blending. It provides easy configuration, lower system cost, reliable and flexible solution.

About VNS:

VNS Inc. was founded in 2000 and engaged in research, development and manufacturing of high end video products. The team is familiar with Genesis, Mstar, Faroudja DCDi, Teranex, Silicon Optix HQV high end video technology and provides professional video products & service to customers.

Functions and applications (功能及應用)

承遠科技在中國Infocomm 2015，發表 GeoBox G-602 新型的專業用曲面雙通道邊緣融合器，它主要應用於投影機的拼接融合，也附加了許多影像處理的功能及應用，例如：影像幾何調整、堆疊、光雕對位、電視牆、影像輸入切換及被動3D等。

G-602為雙通道處理器，可同時控制兩台投影機，但可以無限制的多台 G-602 串聯來處理大型顯示系統。每台 G-602 設有五個輸入接口 (2x HDMI, 1x DisplayPort, 1x DualLink DVI, 1x VGA) 及兩個 HDMI (或DVI) 輸出接口。所有數字輸入接口均可支援 2560x1600 / 3840x1080 @60Hz及4k UHD @30Hz 輸入分辨率及 4:4:4 全頻取樣的色彩，最高的輸出分辨率為 2048x1080 @60Hz。內建的 10-bit 高階影像處理器可做 Motion Adaptive 影像去交錯處理、3:2/2:2 pull-down 電影模式及支援非 VESA 標準的 PC 訊號，讓使用者有更多的訊號連接彈性。

G-602 有高階投影機專用的影像幾何調整及邊緣融合功能，使用者可以利用前面板的按鍵、遙控器或網路，來實現達 17x17 格點曲面調整、重疊區的顏色微調及非重疊區的暗階調整，這些調整都可以即時顯示在畫面上，以達到最佳的無縫拼接效果。利用相機來做系統自動幾何校正及拼接融合的功能，將於未來提供。

一個 HDMI 串接回路，可將 4k/2k @30Hz 的原始訊號串接到另一台處理器，以利作更多投影機的拼接融合；電視牆的功能，能夠將單一的影像作必要的切割、分配位置及調整重疊區大小。

總合上述各項功能，一個完整的高分辨率拼接系統，可以在沒有電腦、影像分配器或其他處理器的情況下來實現。使用者能夠以最簡潔的系統，採用無鏡頭位移、幾何調整及融合功能的低成本投影機，來完成原來需使用高階投影機才能完成的專案，讓使用者有更好的競爭力及利潤。



Function and Applications

Major functions

- Curved and flat screen edge blending
- Projection mapping
- Image warp and stacking
- Format conversion
- Scaler switcher
- Passive 3D projection
- Image flip & rotation
- Edge mask
- Irregular video wall
- Pincushion and barrel adjustment
- Picture in picture (PIP)
- Image cropping and resizing

Applications

- Pro-AV installation
- Immersive 3D theater
- Hospital 3D training room
- Advertising displays
- Staging and special events
- Houses of worship
- Conference room
- Lecture halls
- Trade show display

Physical and environmental

- Dimensions: 440x182x45mm
- Weight: 2.3kg
- Power: 100-240V, 16W
- CE, FCC, RoHs compliant

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