

Galileo Display Processor for PC-Based Walls

Written by Bob Snyder
10 June 2014



At InfoComm 2014, RGB Spectrum will show for the first time the **Galileo Display Processor**, a video wall system designed around a PC-based architecture.

RGB Spectrum is known for its purpose-built video wall solutions. The innovative Galileo processor adds the benefits of PC-based systems such as IP inputs and the ability to run applications natively on the processor, while maintaining the 24/7 level of reliability and real-time performance of RGB Spectrum's solutions.

The system supports a full range of input and output types (IP, analog, DVI/HDMI, 3G/HD-SDI) with resolutions up to 3840x2160 (4K). **The Galileo processor can also deliver HDCP protected content to an unlimited number of displays**, while other PC systems either do not support HDCP at all or impose severe limitations on wall size.

A proprietary driver enables the Galileo system to deliver real-time throughput and superb image quality, unlike other PC-based systems that can drop frames or cause image tearing when processing large amounts of HD content. The processor's solid state drive and dual-redundant power supplies add an extra level of reliability.

The Galileo processor supports H.264 decodes for motion video. In addition, the incorporation of our exclusive VDA remote desktop technology, with integrated KVM capabilities, allows the Galileo processor to provide operators with low-latency control over remote systems and equipment via a LAN or WAN. System performance is demonstrably superior to the industry standard VNC, particularly at low bandwidth or with high motion graphics and video.

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The versatile Galileo processor can configure an unlimited number of windows on video wall arrays of up to 56 displays. Windows can be displayed anywhere on the video wall, in any size, within or across screens, and in correct aspect ratio or scaled over multiple monitors. Images within individual windows can be panned or zoomed to emphasize detail. The processor's window layout options are endless, and users can use presets to save and recall preferred configurations to quickly change the appearance of the video wall.

The Galileo system is easy to set-up and control. An advanced GUI allows users to "drag and drop" inputs and applications, such as VMS, SCADA and videoconferencing, to the video wall. A convenient tablet interface is also available. In addition, an API allows operators to monitor remote alarms and create advanced scripts to recall layouts and control third-party equipment.

The Galileo processor suits a range of applications including mission-critical operations/command centers and control rooms, as well as boardroom video walls, corporate lobby displays, and large-scale digital signage.

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