

Industry-Leading Solutions for Visual Communications

Samsung and RGB Spectrum deliver comprehensive solutions for mission-critical environments for every size and need.

Video walls are an especially effective form of communication in control rooms and other collaborative environments, where operations personnel share information, work together, and interact for critical decision making.

Industry leaders Samsung, RGB Spectrum and Synnex have joined forces to offer a best-in-class combination of video wall processors and displays that create stunning, multi-image video walls optimized for applications from digital signage to control rooms and operations centers.

These comprehensive solution bundles combine industry leading video wall display technology from Samsung with widely deployed video wall processors from RGB Spectrum and are available through Synnex.

Ideal for:

- Smart Campus
- Smart City
- Emergency Response Command Centers
- Surveillance Control Rooms
- Real-Time Crime Centers
- Police/Public Safety Emergency Operations Centers (EOCs)
- Enterprise-level Security Operations Centers (SOCs)

Why Samsung & RGB Spectrum?

Image uniformity and picture quality

From large video walls to single displays, control room displays must be able to show even the most minute details to ensure nothing is missed. Samsung & RGB Spectrum's control room display solutions feature cutting-edge picture quality with unmatched brightness, contrast and stunning resolution to ensure leaders don't miss any important details.

Operational excellence

Samsung has developed a reputation as the very best in visual display technology, but that goes beyond technical specifications. Samsung displays also feature industry-leading operational excellence with easy installation and maintenance. The displays also feature low power consumption and a 3 year commercial warranty.

24/7 Reliability

The highly sensitive nature of information in control rooms requires them to be operational around the clock. Working in this environment, you simply cannot afford any downtime.

Our integrated solutions are built for 24/7 operation, maintaining both picture quality and uniformity.

Scalable Systems

Scalable and versatile, our solutions support video walls of all sizes, from small-scale operations on a single display, to the largest multi-screen video walls in enterprise-level projects.

Ease-of-Use

Intuitive graphical user interfaces. Intelligent display of visual information. Single keyboard and mouse control of multiple devices.

Cost-effective

Our intelligent display and control solutions allow video from different systems to be captured, switched, processed, composited, displayed, and controlled, all without the need for costly custom software.

Solution offerings

Best-in-class Visual Display Technology

In mission-critical environments display technology must deliver superior visual performance and clarity to enable effective information monitoring and interpretation. In addition, control room digital displays must maximize the use of the space effectively.

Samsung displays and RGB Spectrum video processors are utilized in the most demanding environments to build command and dispatch systems that can help prevent emergencies and manage events. Samsung displays are ideal for deploying solutions that offer picture accuracy, solution flexibility, and data integration for effective monitoring.

Samsung LED Signage

Samsung's large-scale indoor LED display options including The Wall and IF series ensure optimal and uninterrupted picture quality for indoor environments, while enabling reliable and efficient operations.

The Wall

Unmatched image detail and contrast that's built to last

The Wall is the ultimate centerpiece of any control room, offering industry leading picture quality and long-lasting quality to meet the demands of any control room environment.

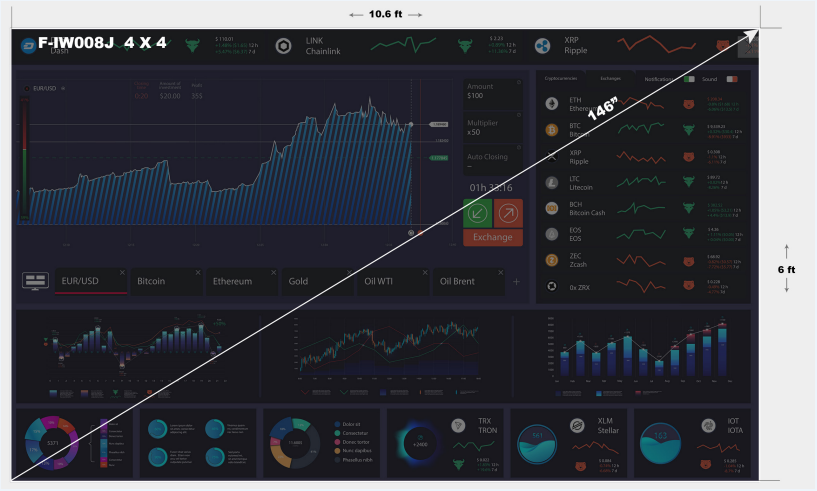


Pristine black & color expression

The fusion of an exceptionally black base with specialized Black Seal technology, delivers deep black levels for intense contrast and immaculate detail. Ultra Chroma technology produces vibrant and natural colors.

Pin-sharp clarity in every scene

Boasting the industry's best picture quality engine, The Wall utilizes advanced HDR picture refinement technologies – LED HDR, HDR10+ support and Multi-link HDR – rendering optimum peak brightness and contrast in every single scene for precise, true-to-life imagery.



Operational safeguards

The Wall features multiple operational safeguards intended to minimize screen failures including off board hot swap power supply and power/signal redundancy.

These redundant systems help to ensure content interruptions are reduced as much as possible, keeping your message front and center.

IF Series

Panoramic view of the situation

Large-scale indoor LED display options from Samsung provide a perfect view of critical information and guaranteed performance to keep the control room operational at all times.

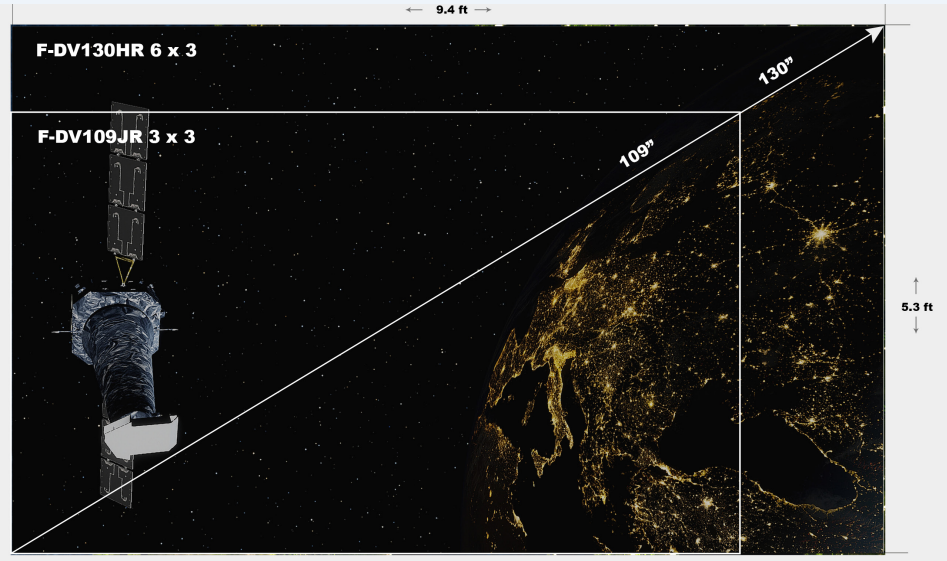


Best-in-class LED picture quality

Samsung's IF series ensures optimal and uninterrupted picture quality for precise information in control room environments. IF series provides best-in-class picture quality for LED, producing images with exact color expression, reduced noise and a full range of grays and blacks.

Clearly refined visuals

Utilizing a propriety algorithm, LED HDR creates true-to-life images, turning any content into HDR-level quality without requiring any special metadata. The IF series supports HDR10+ which optimizes brightness and contrast ratio scene-by-scene to ensure each frame looks exactly as intended.



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Samsung LCD Video Walls Solutions

Immersive, uninterrupted viewing around the clock

With extremely narrow bezels, Samsung's video walls are a versatile solution that create a virtually seamless viewing experience and reliably deliver dynamic information around the clock in a variety of formats.



Immersive viewing experience

Razor thin (.8mm btb) and extreme narrow bezels (1.7 mm btb) enables content to be delivered as one seamless image, minimizing the visual distraction. A bright non-glare panel evenly distributes light throughout the screen, eliminating glare while maintaining content vibrancy and accuracy. (UDE-B series offers ultra narrow bezel at 3.5mm btb).

Screen uniformity all the time

Samsung's complete and comprehensive calibration tunes video wall displays to the optimal uniform brightness and color across multiple displays to fit any control room requirements. Every video wall display presents fine-tuned picture quality whether used as a single display or as multiple screens.

Long-term performance

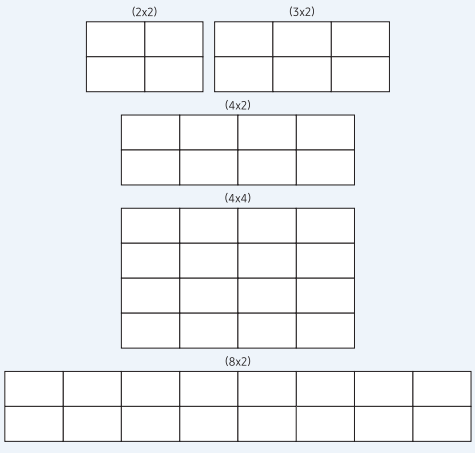
Samsung's video wall displays allows control rooms to deliver clear information 24/7. The panel prevents screen darkening, ensuring long-term delivery of brilliant content. EMC Class B compliant displays and ISTA-certified packaging keep both environment and delivery safe.

Efficient and reliable operation

With daisy chain using DP1.2 and HDMI ports, Samsung's video walls can project UHD content across multiple screens up to 5x5 configuration you can achieve 4K UHD resolution without the cost of external processing scalers and distribution boxes.



Format configuration of up to 16 displays including 2x2, 3x2, 4x2, 4x4 and 8x2



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Samsung Crystal UHD Signage

Clear delivery of critical information

Samsung's UHD signage are premium-grade displays with exceptional picture quality that feature high-brightness and non-glare panel allowing for a clear picture regardless of ambient light. Samsung's Crystal UHD Signage delivers crystal clear picture, keeping control room staffs from missing any detailed information in critical scenarios.



QMR/QMN/QBR series

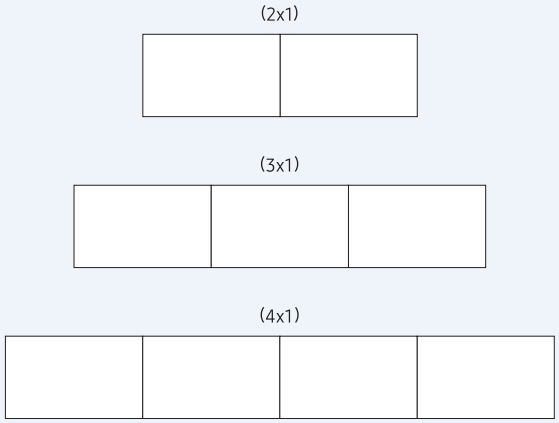
Real 4K resolution

Samsung's UHD Signage showcases intricate details thanks to 4K UHD resolution. Samsung's cutting-edge intelligent UHD upscaling technology performs edge restoration and noise reduction to deliver UHD-level picture quality for control room's use, even with lower resolution content.

High visibility at all times

Samsung's UHD Signage delivers clear information 24/7, ensuring critical information is always visible. Using 10-bit processing, the displays are able to showcase a wider spectrum of colors —up to a billion different shades — capturing subtle differences for true to life color expression.

Format configuration of up to 16 displays including 2x1, 3x1 and 4x1



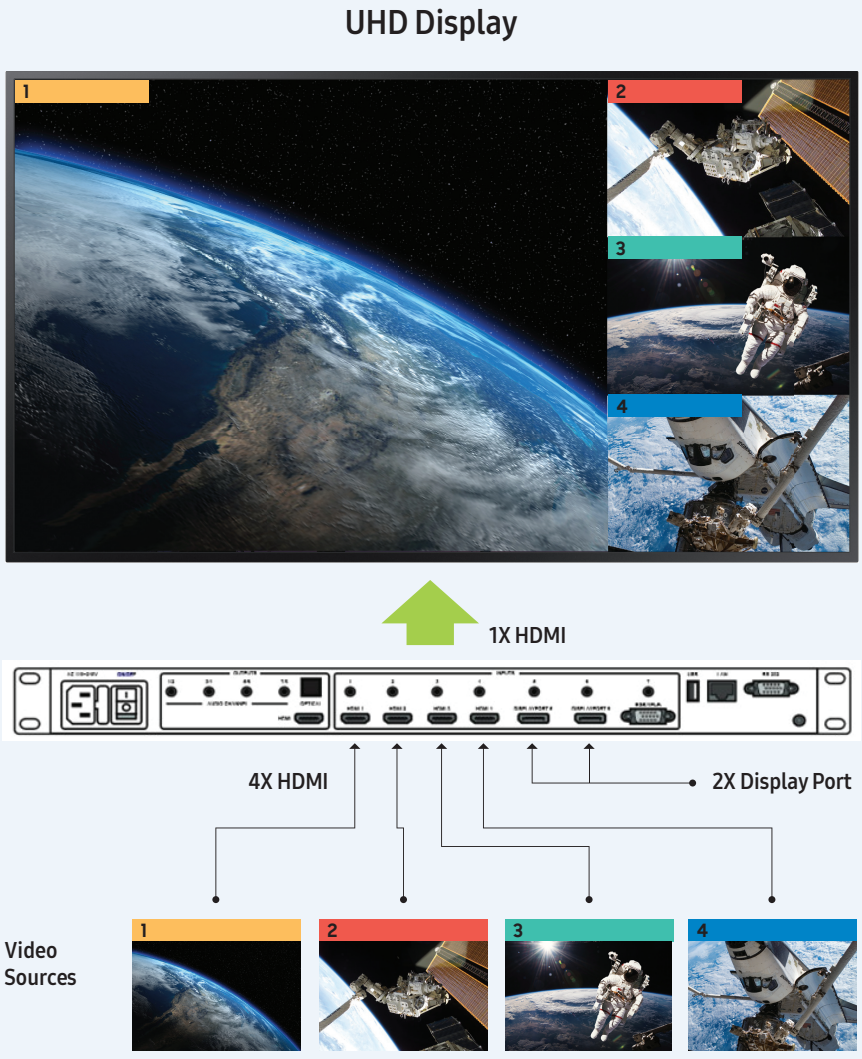
RGB Spectrum Video Wall Processors

RGB video wall processors enable real -time, high-resolution display of multiple sources across Samsung LED or LCD video walls, or even a single display. With big data getting bigger every day, visualizing a variety of content and sharing information for collaborative analysis means it's crucial to choose the display solution that best meets your needs.

QuadView UHDx Multiviewer

RGB Spectrum's QuadView UHDx is an entry-level video wall processor capable of displaying up to 4 simultaneous real-time images on a large format display. The feature-rich QuadView UHDx delivers superior multi-image quality at up to 4K 60Hz resolution. It auto-senses the number of connected sources, automatically switching layouts based on the addition or subtraction of a connected PC, thus eliminating the need for more sophisticated programming. QuadView UHDx supports HDCP2.2 for all next generation 4K sources, including Blu-ray Player, gaming consoles, TV set top boxes, Apple TV 4K, Roku 4K, etc. The unit offers internal switching of up to 6 input signals.

- Optional integrated KVM control for up to 4 sources simultaneously with a single keyboard & mouse
- Customizable display layouts
- Switched inputs: 4x HDMI and 2x DisplayPort
- Auto source detect and display layout capability
- HDMI 2.0 output
- HDCP 2.2 & 1.4 support
- Analog and digital audio switching and embedded audio with de-embedding
- Borders and labels
- Source cropping



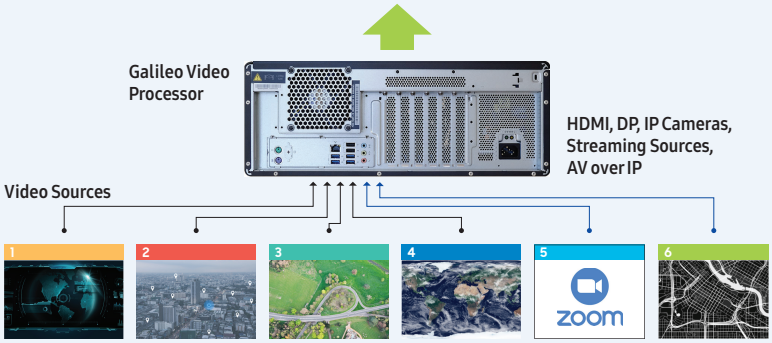
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Galileo Video Processor

RGB Spectrum's Galileo is a powerful multi-image video wall processor with advanced capabilities for the most demanding visual environments. This industry-leading platform enables real-time multi-window imaging at up to 120 frames per second. Galileo supports network-based video, including IP cameras, interactive websites and remote desktop applications, as well as local sources and protected content, including PCs, Blu-ray players, gaming consoles, TV set-top boxes, and streaming media players. Situational awareness is significantly improved by dynamically scaling and positioning each image in real-time depending on the situation. Basic models start with 8-12 windows on up to 4 displays, and advanced configurations can grow to dozens of inputs on dozens of displays.

- Encode IP stream of entire wall or any region of interest for remote viewing
- Real-time processing with 24/7 reliability
- Baseband, IP streaming and web-based inputs

Video Wall



- Drive multiple display walls from a single Galileo
- Control and display of remote systems

- IP stream decoding up to 4K / UHD
- HDCP 2.2 support
- Drag & drop tablet or web-based interface

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