

Galileo

Video Wall Processor



**The Future of Video Wall Processing
Available Today**



Galileo

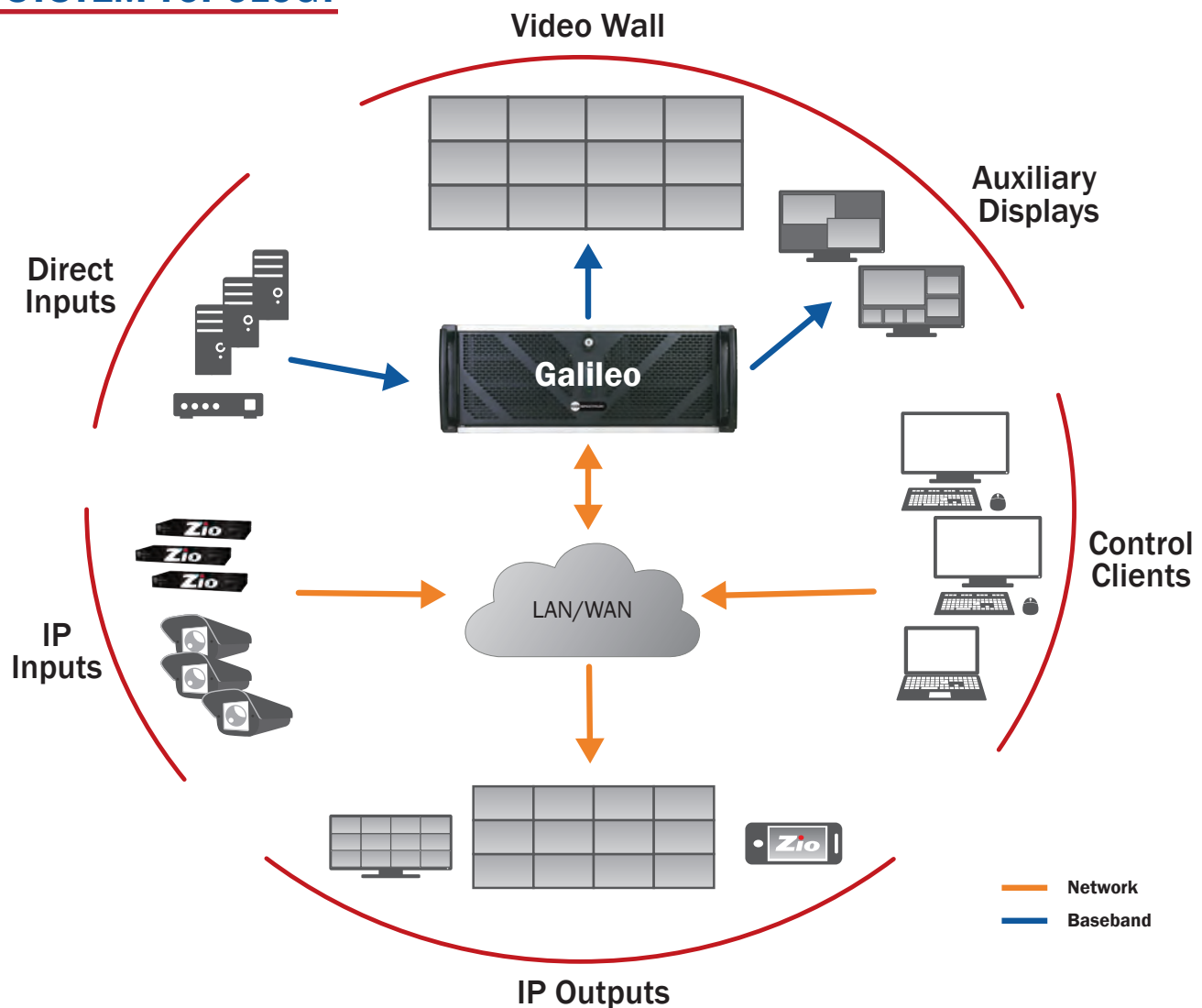
RGB Spectrum continues to push the boundaries on capabilities for control rooms, operation centers, and other mission critical venues with the highly configurable Galileo video wall processor and signal distribution system.

The flexible Galileo display processor supports analog, digital, web browser, and IP-based sources displayed in windows anywhere on the display surface. Outputs can be configured as video walls or as individual displays and fed as baseband or IP streams.

RGB Spectrum's Zio® Networked AV products are integrated directly into the Galileo display processor. Zio encoded-sources are automatically discovered and listed as Galileo sources. Additionally, a Galileo-encoded output can be part of the Zio ecosystem and sent to a decoder, smart display or mobile phone.

Combining the flexibility of a PC architecture with real-time performance, the IP-enabled Galileo processor sets a new standard for video walls and signal distribution.

SYSTEM TOPOLOGY



KEY FEATURES

REAL-TIME 24/7 PERFORMANCE

Optimized components allow the Galileo processor to deliver real-time throughput and superb image quality, unlike other PC-based systems that can drop frames or cause image tearing.

With a solid state drive and optional hot-swappable, redundant power supplies, the processor provides reliable, 24/7 operation.

MULTIPLE DISPLAY SURFACES

The Galileo processor allows the user to group outputs into multiple display surfaces or use an output as a multiviewer to mimic the main video wall. Layouts can apply to a specific display surface or all surfaces to allow fast recall of windows and routings.



IP STREAMING OUTPUTS

The Galileo processor offers both encoding and decoding of IP streams. The user can selectively stream the entire video wall, creating a true wall mimic, or any portion of the wall. In addition, baseband sources can be converted to IP streams even when not displayed on the video wall. This unique capability allows operators to push content to anyone, anywhere in the world.

SECURITY SYSTEM SUPPORT

RGB Spectrum's Galileo Display Processor offers Milestone integration with the simplicity of the XProtect® Smart Client and the power of a dedicated video wall. This integration allows third party systems such as alarms, access control, and GIS to be displayed alongside Milestone video in one consolidated, easy-to-manage view.

CONTROL AND COLLABORATION

The Galileo system provides several control options to simplify set-up and operation. A built-in web interface, accessible on any computer, tablet or mobile device, enables users to recall layouts and move/resize windows. No app is required.

Third-party devices can also provide system control. The Galileo processor's rich API allows operators to monitor remote alarms, create scripts to recall layouts, and control third-party equipment.

IP STREAMING INPUTS

IP video streams are decoded either directly by the Galileo processor or on a dedicated input card. The decoder input card enables hardware-accelerated H.264 decoding of video up to 4K resolution.

ENTERPRISE SECURITY

For mission-critical enterprise-level applications, enhanced security features protect the integrity of system data and resources. The optional Galileo Advanced software adds User Profile Management and Security Logging capabilities.

REMOTE DESKTOP CAPABILITY

The Galileo processor offers multicast remote desktop functionality. This enables any authorized client to view the display of another client or remote KVM host.

FLEXIBLE INPUT TYPES

Flexibility is one of the Galileo processor's key strengths. From legacy, analog equipment to today's 4K UHD sources, a modular input card structure allows you to select the input types you need.

SPECIFICATIONS

	GO 18	GO 28	GO 40	GO 56
Physical				
Size (h x w x d)	6.5 x 17.3 x 18.1 inches (4RU) 165 x 440 x 460 mm	7.0 x 19.0 x 21.5 inches (4RU) 177 x 483 x 546 mm	7.0 x 19.0 x 26.0 inches (4RU) 177 x 483 x 657 mm	7.0 x 19.0 x 26.0 inches (4RU) 177 x 483 x 657 mm
Weight	27 lbs/12 kg	40 lbs/18 kg	57 lbs/26 kg	57 lbs/26 kg
Power				
Power Supply	100-240 VAC; 50/60 Hz 690 W single	100-240 VAC; 50/60 Hz Dual redundant, hot-swappable 850 W single, 900 W dual max	115-230 VAC; 50/60 Hz 1200 W max	115-230 VAC; 50/60 Hz 1200 W max
<i>Power consumption depends on specific configuration. GO 28 dual redundant hot-swappable PSU is an option.</i>				
Environmental				
Operating Temp	+50 to +95 °F (+10 to +35 °C)	+32 to +104 °F (0 to +40 °C)	+32 to +104 °F (0 to +40 °C)	+32 to +104 °F (0 to +40 °C)
Storage Temp	+14 to +140 °F (-10 to +60 °C)	-4 to +176 °F (-20 to +80 °C)	-4 to +140 °F (-20 to +60 °C)	-4 to +140 °F (-20 to +60 °C)
Operating Humidity	10% to 80% non-condensing	20% to 80% non-condensing	10% to 85% non-condensing	10% to 85 % non-condensing
Processor				
CPU	Single Intel® Xeon® W-2123 3.6GHz	Single Intel® Six Core™ i7	Single Intel® Quad Core™ i7	Single Intel® Quad Core™ i7
Memory	16 GB DDR4 2666MH	16 GB DDR3	16 GB DDR4	16 GB DDR4
Hard Disk	256 GB SSD (RAID option not avail.)	500 GB SSD; RAID option	500 GB SSD; RAID option	500 GB SSD; RAID option
Control				
Network	1x Ethernet TCP/IP 10/100/1000 Base-T	2x Ethernet TCP/IP 10/100/1000Base-T	2x Ethernet TCP/IP 10/100/1000Base-T	2x Ethernet TCP/IP 10/100/1000Base-T
Input/Output				
Inputs	DVI: up to 1920x1200 @ 60Hz, 2560x1600 @ 30Hz HDMI: up to 4096x2160 @ 60 Hz S-Video: NTSC/PAL/SECAM Composite: NTSC/PAL/SECAM SDI: 1920x1080 @ 60Hz IP: up to 12x 1920x1080 @ 30 Hz, 1x 3840x2160 @ 60Hz, or 2x 3840x2160 @ 30Hz or equivalent decodes or encodes via each GO IP4K or IP4K-E card IP: up to 9 simultaneous 1920x1080 @ 30 Hz or other equivalent data rate via chassis CPU			
Output Type	DVI: up to 2048x1152 @ 60Hz, 2560x1600 @ 30Hz HDMI: up to 1920x1080 @ 60 Hz DP: up to 4096x2160 @ 60 Hz IP: up to 12x 1920x1080 @ 30 Hz, 1x 3840x2160 @ 60Hz, or 2x 3840x2160 @ 30Hz or equivalent decodes or encodes via each GO IP4K or IP4K-E card			
Output Number	18 max	28 max	40 max	56 max

Number of input and output channels depends on chassis size and customer configuration.

Specifications subject to change.

Model GO 18



Model GO 28



Model GO 40 / 56

