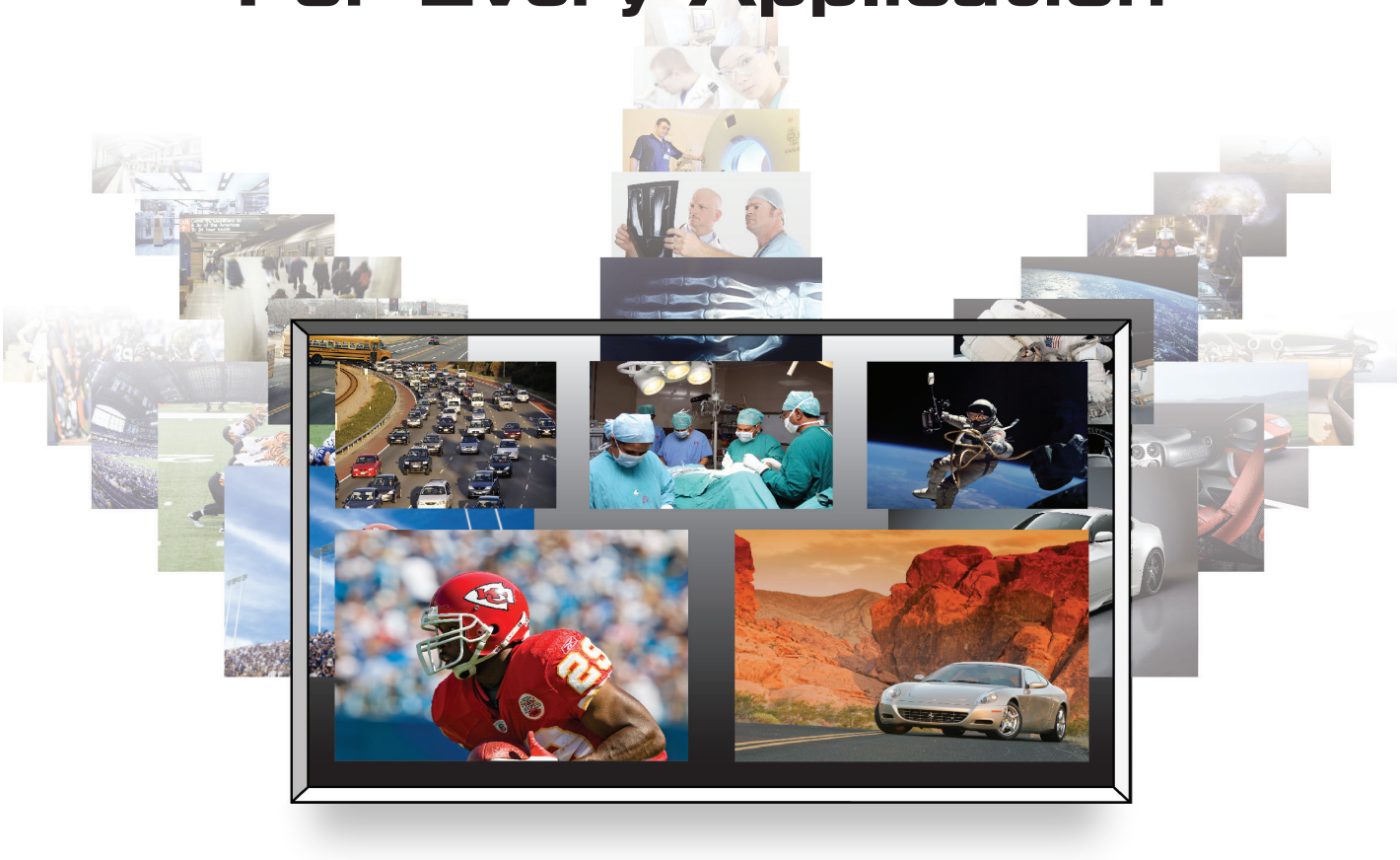
Multiviewers For Every Application



Real-time processing — no dropped frames

Designed for robust 24/7 operation

Supports displays up to 4K x 2K

Video and graphic inputs

Integrated KVM

RGB SPECTRUM®

Multiviewer Portfolio

RGB Spectrum's *QuadView*® HDx, and *SuperView*® 4100, 4K, and 5000 Multiviewers excel in their ability to display multiple high resolution video and computer sources on a single screen. From the board room to teleconferencing to high-end home theaters, our multiviewers offer customers an extraordinary level of performance. A dedicated system architecture and embedded operating system provide enhanced security and reliability without PC vulnerabilities for mission-critical applications.

QuadView® HDx

— Compact, Powerful, Robust

The *QuadView* HDx Multiviewer offers the most powerful image processing solution in the industry — with outstanding image quality, dynamic window sizing, and RGB Spectrum's renowned real-time processing.

4 Windows + Background

Features:

- Full range of input and output formats
- Real-time, dynamic window scaling
- DVI input cable equalization
- Pan and zoom, titles and borders
- Programmable presets
- On screen cursor control
- HDCP option
- Integrated KVM option
- NTSC/PAL input option

SuperView® 4100

— Flexible, Secure, Reliable

For more demanding applications, the *SuperView* 4100 Multiviewer builds on the power of the *QuadView* HDx and features eight windows, complete layout flexibility, and RGB Spectrum's superb image quality.

8 Windows

Features:

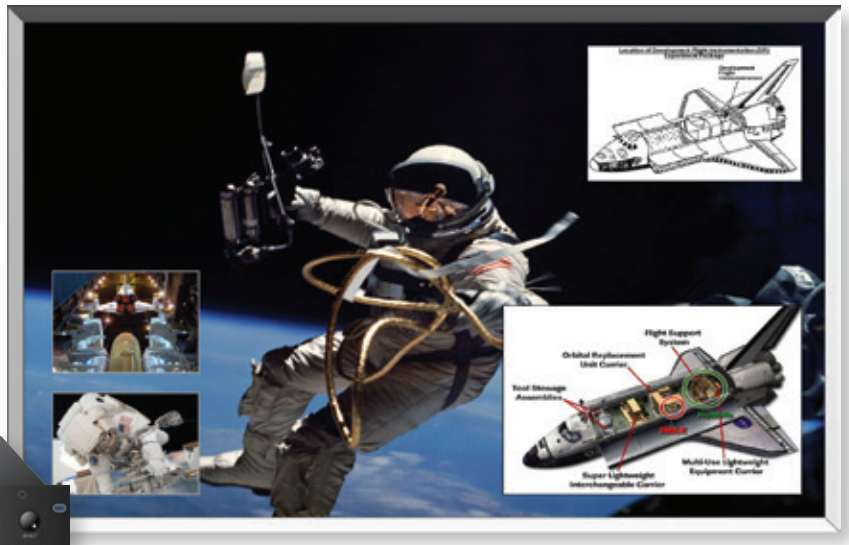
- Full range of input and output formats
- Single or dual-link DVI outputs
- Dynamic window scaling
- DVI input cable equalization
- Pan and zoom, titles and borders
- Programmable presets
- On screen cursor control
- HDCP compliant
- Integrated KVM options

SuperView® 4K

— *Eight MegaPixels of Power*

The *SuperView* 4K Multiviewer is the world's first real-time processor designed for Ultra HD panels and projectors. With the ability to display up to eight high resolution graphic or video images, including 4K imagery, SuperView 4K meets the demand for today's new wave of 4K visualization.

4K "UltraHD" Monitor or Projector



Up to 8 Windows

Features:

- Full range of input and output formats
- Accepts 2K and 4K sources
- Single or dual-link DVI outputs
- Realtime, dynamic window scaling
- DVI input cable equalization
- Programmable presets
- HDCP compliant
- Integrated KVM option

SuperView® 5000

— *Modular, Configurable, Versatile*

The *SuperView* 5000 Multiviewer offers the power of real-time processing, coupled with the flexibility of modular architecture. Mix and match input formats as required to meet the exact demands of your application.

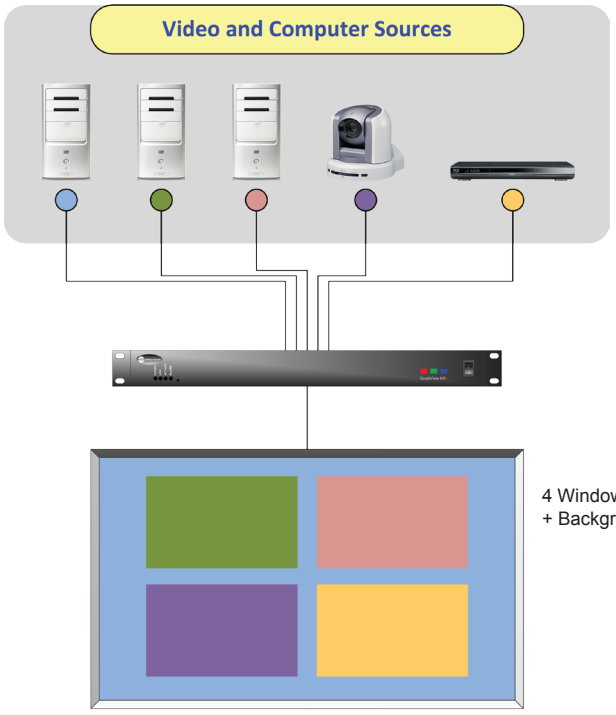
12 Windows

Features:

- RGB, DVI, 3G/HD-SDI and Analog input modules
- Static background option
- Realtime, dynamic window scaling
- DVI input cable equalization
- Programmable presets
- On screen cursor control
- HDCP option
- Integrated KVM option

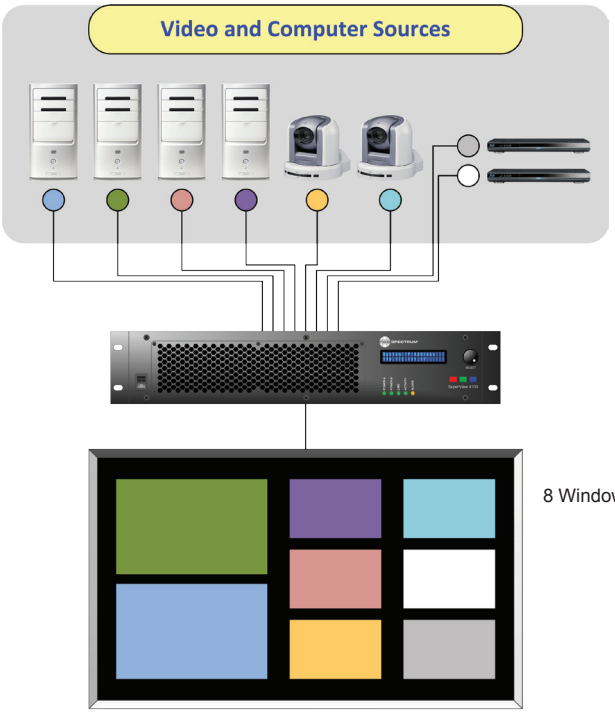
System Diagrams

QuadView® HDx



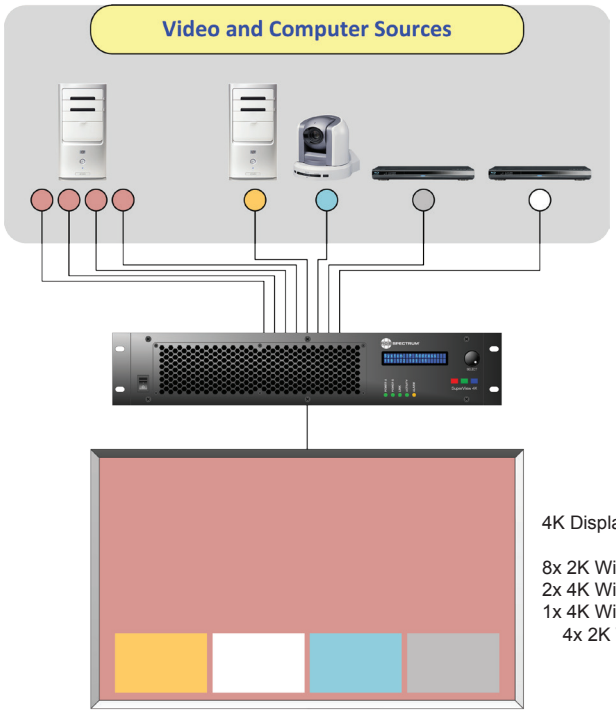
4 Windows
+ Background

SuperView® 4100



8 Windows

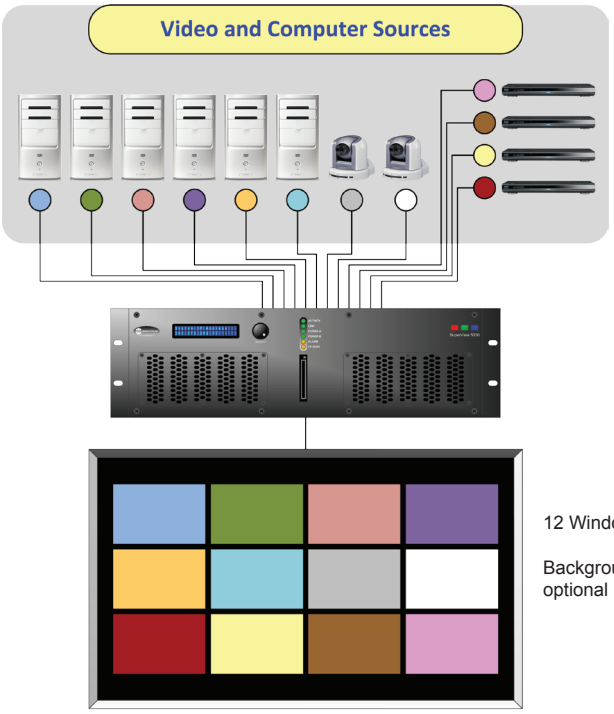
SuperView® 4K



4K Display

8x 2K Windows
2x 4K Windows
1x 4K Window +
4x 2K Windows

SuperView® 5000



12 Windows

Background
optional

Integrated KVM with Network Security

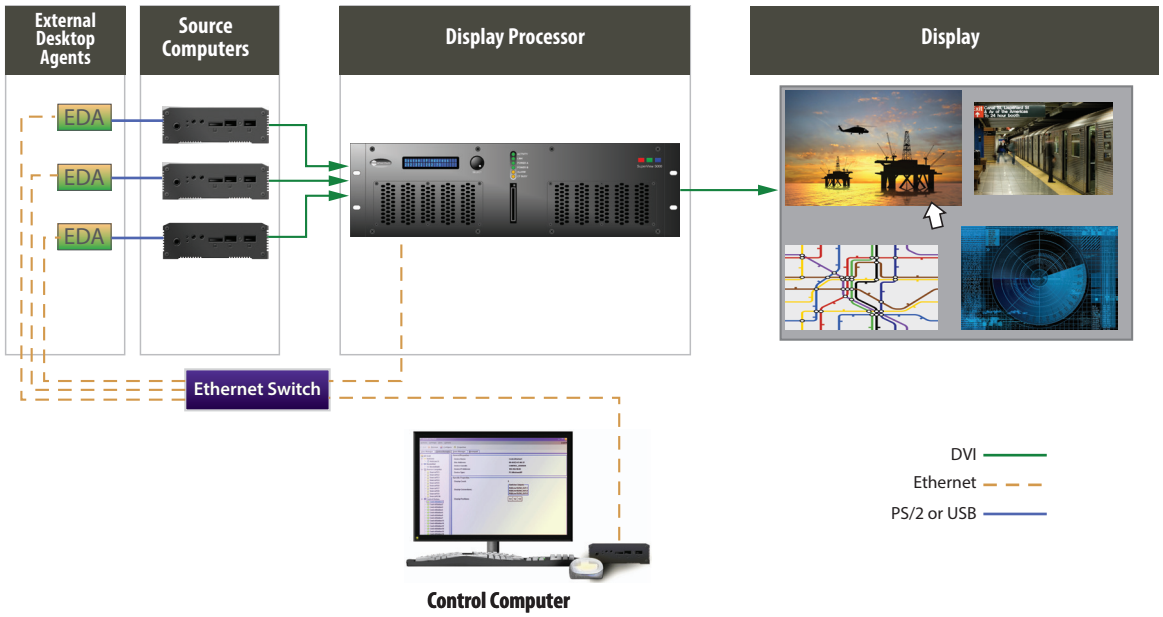
SinglePoint KvM™

SinglePoint KvM is a powerful integrated KVM solution for RGB Spectrum's multiviewer processors. *SinglePoint KvM* enables users to control the operation of all source computers displayed on the multiviewer with a single mouse and keyboard.

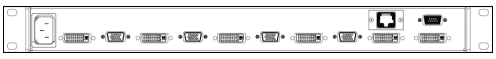
An on-screen cursor controls the functions of the display processor (e.g. window sizing and positioning) as well as the source computers themselves. Both the visuals and the cursor movement are displayed in real-time, resulting in a high level of responsiveness. With video passing directly from a computer to the multiviewer, *SinglePoint KvM* relies on the network for commands only, with negligible network impact.

There are two methods of remote access to source computers: via Remote Desktop Agent (RDA) software installed on the computer, or via RGB Spectrum's patented External Desktop Agent (EDA). The EDA functions as a computer's remote desktop agent using standard keyboard and mouse drivers, eliminating the need to install software on the computer.

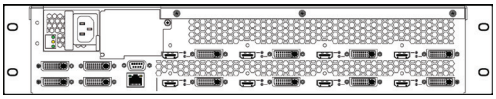
The EDA receives keyboard and mouse commands via Ethernet and relays them to a computer via PS/2. A PS/2-to-USB adapter is available, with the PS/2 connection remaining in-line. Because PS/2 is unidirectional, commands can be passed to the computer but data cannot be accessed. This network isolation allows *SinglePoint KvM* to run on both secure and unsecure networks simultaneously.



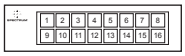
Panels



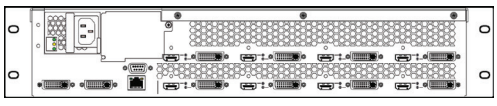
QuadView HDx



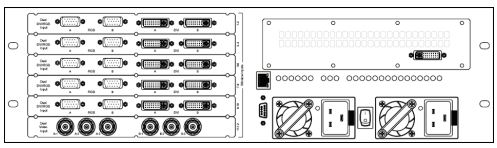
SuperView 4K



BP-16 Network Button Panel



SuperView 4100



SuperView 5000

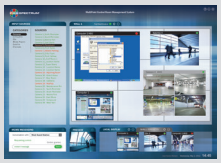
Specifications

	QuadView HDx & HDvx	SuperView 4100	SuperView 4K	SuperView 5000
Windows	4	8	8	12
Inputs				
RGB/YPbPr/HD	4x (on 15-pin HD)	8x (on DVI-I)	8x (on DVI-I)	2x per module (on 15-pin HD)
DVI	4x (on DVI-I, digital only)	8x (on DVI-I single-link 1.0)	8x (on DVI-I)	2x per module (on DVI-I)
HDMI (1.3a)		8x (on HDMI)	8x (on HDMI)	
3G/HD-SDI (292M, 424M)				2x per module (on BNC)
Background	1x (on DVI-I, digital only)			Option, via compact flash
Composite/Component	Up to 16x (on BNC), component configurable on QV HDxv			2x per module (on BNC)
Resolution	640x480 to 1920x1200, 2048x1152, 720p, 1080i, 1080p	640x480 to 1920x1200, 2048x1152, 720p, 1080i, 1080p	640x480 to 1920x1200, 2048x1152, 720p, 1080i, 1080p 3840x2160, 4096x2160	640x480 to 1920x1200, 2048x1152, 720p, 1080i, 1080p
Color depth	24-bit	24-bit	24-bit	24-bit
Horizontal scan rate	15 kHz to 125 kHz	31 kHz to 125 kHz	31 kHz to 125 kHz	15 kHz to 125 kHz
Frame rate	Up to 200 Hz	Up to 200 Hz	Up to 200 Hz	Up to 200 Hz
Clock rate	Up to 165 MHz	Up to 165 MHz	Up to 165 MHz	Up to 165 MHz
Video levels	1.0 V p-p for G and Y composite 0.7 V p-p for R, B and PbPr	1.0 V p-p for G and Y composite 0.7 V p-p for R, B and PbPr	1.0 V p-p for G and Y composite 0.7 V p-p for R, B and PbPr	1.0 V p-p for G and Y composite 0.7 V p-p for R, B and PbPr
Sync type	RGsB, RGBS, RGBHV, YPbPr (tri-level or bi-level sync on Y)	RGsB, RGBS, RGBHV, YPbPr (tri-level or bi-level sync on Y)	RGsB, RGBS, RGBHV, YPbPr (tri-level or bi-level sync on Y)	RGsB, RGBS, RGBHV, YPbPr (tri-level or bi-level sync on Y)
Cable equalization	Automatic or manual, up to 164 ft (50 m) DVI	Automatic or manual, up to 164 ft (50 m) DVI	Automatic or manual, up to 164 ft (50 m) DVI	Automatic or manual, up to 164 ft (50 m), DVI up to 650 ft (200 m) HD-SDI
HDCP	Option	Standard	Standard	Option
Outputs				
RGB/YPbPr/HD	1x (on DVI-I)			
DVI single-link	1x (on DVI-I)	2x (on DVI-I, digital only)	4x (on DVI-I, digital only)	1x (on DVI-I)
DVI dual-link		1x (option) on DVI-I	2x (on DVI-I, digital only)	
Resolution	640x480 to 1920x1200 and 2048x1080p	Up to 1920x1200, 2048x1080 Dual-link to 2560x1600	2k mode: single-link DVI, up to 1920x1200, HD to 2048x1080p 4k mode (SL): 4x single-link DVI, 3840x2160p, 4096x2160p 4k mode (DL): 2x dual-link DVI, up to 2560x1600p and 1920x2160 (per output)	Up to 1920x1200 and 2048x1152, 720p, 1080i, 1080p
Horizontal scan rate	12 kHz to 125 kHz	12 kHz to 125 kHz	12 kHz to 125 kHz	12 kHz to 125 kHz
Frame rate	50 to 200 Hz	50 to 200 Hz	50 to 200 Hz	50 to 200 Hz
Clock rate	25-165 MHz	25 to 165 MHz (single-link) 165 to 330 MHz (dual-link)	25 to 165 MHz (single-link) 165 to 330 MHz (dual-link)	25-165 MHz
Video levels	0.7 V p-p			
Sync type	SRGsB, RGBS, RGBHV, YPbPr (tri-level or bi-level sync on Y)	NA	NA	NA
Pin power	750 mA @ 5 VDC	500 mA @ 5 VDC per output	500 mA @ 5 VDC per output	500 mA @ 5 VDC per output
Power				
	100-240 VAC auto ranging 50/60 Hz, < 45 W	100 - 240 VAC auto ranging 50/60 Hz, 125 W maximum	100 - 240 VAC auto ranging 50/60 Hz, 125 W maximum	100 - 240 VAC auto ranging 50/60 Hz, <325 W
Control				
	Ethernet 10/100Base-T, Telnet RS-232, Web interface	Ethernet 10/100Base-T, Telnet RS-232, Web interface	Ethernet 10/100Base-T, Telnet RS-232, Web interface	Ethernet 10/100Base-T, Telnet RS-232, Web interface
Options				
	SinglePoint KvM BP-16 control panel	SinglePoint KvM DVI dual-link output Redundant power supply BP-16 control panel	SinglePoint KvM Redundant power supply BP-16 control panel	SinglePoint KvM Redundant power supply Compact flash reader BP-16 control panel
Physical				
	Width: 17.0 in/43.2 cm Depth: 13.5 in/34.3 cm Height: 1.75 in/4.5 cm (1 RU) Weight: 13.5 lbs/6.1 kg	Width: 17.0 in/43.2 cm Depth: 18.0 in/45.7 cm Height: 3.5 in/8.9 cm (2 RU) Weight: 25 lbs/11.4 kg	Width: 17.0 in/43.2 cm Depth: 18.0 in/45.7 cm Height: 3.5 in/8.9 cm (2 RU) Weight: 25 lbs/11.4 kg	Width: 19.0 in/48.3 cm Depth: 22.0 in/55.9 cm Height: 5.25 in/13.3 cm (3 RU) Weight: 40 lbs/18.2 kg

RGB Spectrum Products

MultiPoint Control Room Management Systems

A collaborative system to display and control shared computer and visual resources, MCMS integrates a state-of-the art multi-user KVM system with RGB Spectrum hardware, including video walls, multiviewers, codecs and switchers. Better decisions. Faster.



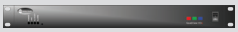
- Customizable work environment
- KVM access of controlled computers without software installed
- Unique operator GUI for both local and shared resource control
- Full bandwidth, uncompressed video
- Integration with shared display walls

Multiviewers

For displaying multiple video and graphics on a single screen, the QuadView® and SuperView® product lines provide superb multiviewer functionality with the ability to move, resize and overlap images. Options include KVM control of sources, HDCP compliance, and annotation.

SuperView 4100 / 5000

QuadView HDx



- 4, 8, or 12 windows
- DVI, RGB, HD-SDI, SD/HD video inputs
- Resolutions to 1920x1200
- Smooth scaling, panning, and zooming

SuperView 4K

- 8 megapixel multiviewer
- Up to 8 windows
- DVI single-link or dual-link output
- Smooth scaling, panning, and zooming

Codecs and Recorders

For streaming and recording video, graphics and audio with the highest fidelity, RGB Spectrum offers two codec families — the DSx™ with H.264 *high* profile compression and the DGy™ with JPEG 2000 compression.

DSx

DGy

- Up to 1920x1200 resolution
- Simultaneous recording and replay
- Event marking
- Variable speed playback
- Multi-unit synchronization
- Concurrent streaming and recording
- Recording to local and network storage devices

Digital Switchers

The Linx™ *Prime* and Opto™ series of DVI and fiber optic switchers enable transmission without signal degradation, providing superb tools for A/D conversion, routing and control, with HDCP compliance.

Linx *Prime*

- Single-link and dual-link DVI, RGB, 3G/HD-SDI inputs
- Single and dual-link DVI and scaled DVI outputs
- Fiber and copper I/O
- Chassis I/O up to 32x32

Opto

- Industry highest bandwidth - 6.22 GHz
- Chassis I/O up to a giant 320x320
- Simplex or duplex operation
- Single mode or multimode fiber
- Single and dual-link DVI, RGB and 3G/HD-SDI

MediaWall™ Video Processors

Simultaneously display multiple computer and video signals across an array of high definition monitors or projectors, with the ability to interact with any source via KVM control. Windows can be custom sized, positioned and stretched across any combination of displays.

MediaWall

MediaWall 4200

MediaWall 2900

- Real-time operation, no dropped frames
- RGB/DVI, 3G/HD-SDI and analog inputs
- Smooth scaling, panning, and zooming
- Edge blending support and bezel compensation
- HDCP compliant

Extenders

For secure transmission of DVI signals over long distances, XtendView® FiberDVI signal extenders represent the state-of-the-art with the industry's smallest size housing.

- Up to 400M over a single fiber
- Resolutions to 2048x1152
- "All-in-the-headshell" design
- HDCP compliant

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RGB SPECTRUM®
VISUAL RESOURCE MANAGEMENT™
SWITCHERS ■ VIDEO WALLS ■ MULTIVIEWERS ■ CODECS ■ KVM