

Clarity Visual Control Station VIDEO WALL CONTROLLER



Video Wall Image Processing Solution

The Clarity Visual Control Station (VCS) is a flexible and easy to use wall controller designed for the capture, display and management of visual sources on a video wall. Its compact yet powerful form factor supports a wide variety of visual inputs including analog video, digital video, computer sources and, via the optional VCS IP Decoder, video over IP.

VCS if fully configurable and can drive video walls comprised of up to 40 high resolution displays. Using the Windows[®] 7 based VCS Control software, visual sources can be placed and resized individually anywhere on the wall or, through the click of a mouse, the entire wall can revert to a preset layout of windows. The entire system is designed to be easy to set up, easy to use and easy to maintain.

CLARITY VCS PROCESSOR

The VCS Processor utilizes a 4U rack mountable chassis with high performance PCI express backplane. With its choice of powerful server-class CPUs, RAID 0,1 hard drives and redundant power supplies, the wall processor is both powerful and reliable. VCS is preloaded with 64 bit Windows 7 ensuring compatibility with the latest customer applications. By using the VCS Expansion Chassis, the controller can expand to support larger walls and numbers of sources. Clarity VCS supports the VCS Graphics4 output cards each of which can drive 4 displays at up to 1920x1200 resolution.



The VCS processor features server-class CPU, 192Gb/sec PCI Express backplane, RAID hard drives, redundant power suppliers and modular expansion.

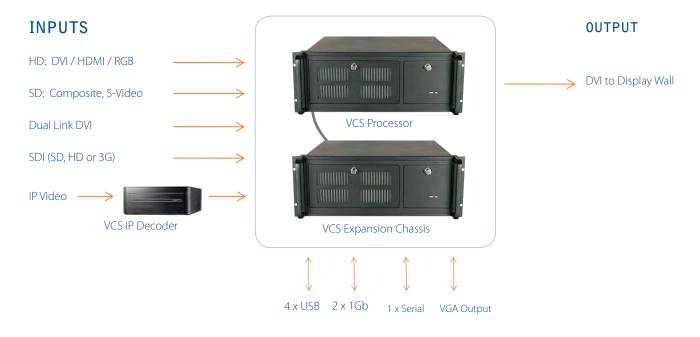
KEY FEATURES

- All-in-one complete hardware and software solution
- No additional software license fees
- Windows 7 64 bit intuitive UI, and application compatibility
- Wide choice of supported inputs
- Scalable from small to large installations
- Easy installation and maintenance

BROAD RANGE OF SOURCE CAPTURE

Clarity VCS is able to capture and display a wide range of visual sources. VCS captures standard definition video in composite and S-video formats. Higher resolution sources using DVI, HDMI, component HD, analog RGB, Dual Link DVI and SDI (SD, HD, 3G) can also be captured. Using the VCS IP Decoder, streaming video over IP is supported so that, for instance, IP-based CCTV camera feeds can be displayed and monitored on the video wall. Through different VCS configurations, varying combinations of these different sources can be displayed at the same time and managed in a unified fashion using Clarity VCS Control.

Through its wide variety of source capture and modular expansion capabilities, VCS offers flexibility and freedom of choice unachievable with many processors.

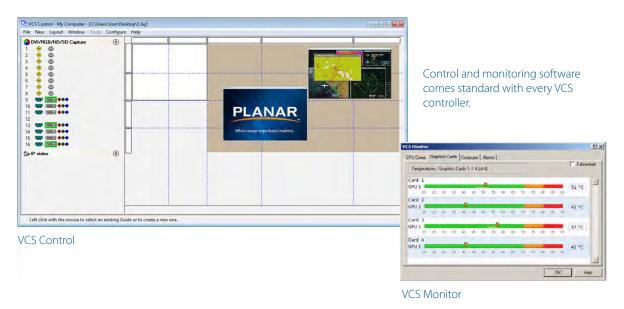


CONNECTIVITY

CONTROL AND MONITORING SOFTWARE

Clarity VCS Control software provides a visual environment in which to control the entire wall layout. With VCS Control, windows on the video wall can be opened, placed, moved and sized. Layouts can be saved and recalled. The VCS Control interface dynamically adjusts to display whatever type of source is connected to the controller and the software's interface complies with the familiar Windows design standards making it intuitive and easy to learn.

Every VCS controller also includes VCS Monitor software that monitors the health of the overall system. Through a graphical interface, system components can be monitored, thresholds are configured and alarms and notifications can be triggered according to the wishes of the administrator.



FLEXIBLE OPERATION

The VCS Control software runs directly on the VCS processor and can be managed locally on the controller's Windows 7 desktop. Using a KVM extender, the control room operator can interact directly with a controller located in a rack room. Alternatively, VCS Control software can be installed on another Windows 7 machine and operate the VCS controller over the network. Finally, VCS Control supports serial commands and, via RS-232 connection, can be driven by leading touch-based room control systems.



STANDARD CONFIGURATIONS

Outputs	Inputs	
	DVI / RGB / HD	SD Video
4	5	4
8	5	4
8	8	8
12	5	4
12	8	8
16	5	4
16	8	8
IP Video (MPEG)	16 a	at D1 per IP Decoder

CLARITY VCS SPECIFICATIONS

VCS Chassis		
Form factor	19"4U industrial PC chassis	
Standard Processors CPU System Memory	Intel® Quad Core 2.66 GHz SBC 4GB DDR2	
Optional Processors CPU System Memory	Intel [®] Core i7 8GB DDR3	
Operating System	Windows® 7 64 bit	
Backplane	PCI Express Switch Fabric (192 Gb/s peak bandwidth)	
Expansion Slots	9 x PCI Express	
Hard Disk Drive	2 x 500GB removable SATA hard drives with RAID 1	
Removable Storage	1 x DVD-RW drive	
VGA Port	Integrated VGA output for control screen	
Networking	2 x 10/100/1000 Ethernet	
USB Ports	4 external ports, USB 2.0	
Serial Ports	1 via USB to Serial adapter	
Power Supply	2 x 500 Watt, Redundant	
Power Consumption	227 Watt (typical)	
Dimensions (W x H x D)	17.3" x 7.0" x 17.7" (438.5 mm x 177.0 mm x 450.0 mm)	
Weight	67 lbs (34.4 kg) (shipping)	
	Expansion Chassis	
Form factor	19"4U industrial PC chassis	
Dimensions (W x H x D)	17.3" x 7.0" x 17.7" (438.5 mm x 177.0 mm x 450.0 mm)	
Expansion slots	8 x PCI Express	
	Graphics Output	
Max Output Resolution	DVI outputs. 1920 x 1200 @ 60Hz max resolution each	
GPU	Dual 128 bit GPU with 2 x 256MB frame buffer (512 MB total)	
	SD Video Capture	
Inputs	Composite and S-video	
Video Formats	PAL, NTSC and SECAM	
Max Capture Resolution	720 x 576	
Max Data Transfer	480MB/s	
Connectors	D connectors with BNC adapter	

CUSTOM CONFIGURATIONS

With VCS Custom Configurations, nearly any combination of inputs and outputs can be integrated in a system. Contact Planar for a quote.

CLARITY VCS SPECIFICATIONS (CONTINUED)

HD: DVI / HDMI / RGB Capture		
Max Component HD Capture	1080p at 60 frames per second	
Max DVI Capture	1920 x1200	
Max Analog RGB Capture	2048 x 1536	
Max Data Transfer	650MB/sec	
Connectors	DVI-I type, DVI/HDMI adapter, DVI/Component adapter	
	Dual Link DVI Capture	
Video Formats	DVI Dual Link. DVI Single Link. Autodetected	
Max DL DVI Capture	330MHz. 3840 x 2160 @ 30Hz	
Max Data Transfer	650MB/sec	
Connectors	Dual Link DVI-D type	
	SDI Capture	
SDI Capture formats	SD-SDI (480i/576i)	
	HD-SDI (up to 1080i)	
	3G-SDI (up to 1080p @ 60Hz)	
Max SDI Bit Rate	3Gb/sec	
Max Data Transfer	650MB/sec	
Connectors	SDI BNC	
	IP Decoder	
Form factor	19"4U Industrial PC Chassis	
Max streams	16 at D1 (720 x 576)	
Formats	RTSP, MPEG2, MPEG4, H.264	
	Software	
Operating System	Windows® 7 64 bit	
Wall Control	VCS Control	
Language Support	English, French, Spanish	
Controller Monitoring	VCS Monitor	
	Environmental & Regulatory	
Operating Temperature	0° to +35° C	
Storage Temperature	-20° to +70° C	
Relative Humidity	5% to 90% non-condensing	
Product Approvals	FCC-Class A, RoHS, IEC60950, CE low voltage compliance	



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www.planar.com sales@planar.com 1-866-475-2627