

Clarity Visual Control Station VIDEO WALL PROCESSOR



Video Wall Image Processing Solution

Planar's Clarity® Visual Control Station™ (VCS™) is a flexible and easy-to-use video wall processor designed to capture, display and manage multiple sources on a video wall. It supports a wide variety of visual inputs including analog, digital, and IP network-based video and computer sources.

The Clarity VCS video wall processor is fully configurable to drive video walls of up to 64 high resolution displays. Using the Windows® 7-based VCS™ Control Software v5, visual sources can be positioned and resized individually anywhere on the video wall or can instantly revert to one of many preset layouts. The Clarity VCS video wall processor is designed for easy set-up, easy use, and easy maintenance.

All-in-one complete hardware and software solution

HARDWARE COMPONENTS

The Clarity VCS video wall 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, Clarity VCS is both powerful and reliable. Clarity VCS is preloaded with 64-bit Windows® 7, ensuring compatibility with the latest user applications. By adding one or more expansion chassis, Clarity VCS can easily support an increased number of high resolution displays and sources. Clarity VCS includes VCS Graphics DP4 output cards, each with the ability to drive four displays at up to 2560 x 1600 resolution or two displays at up to 3840 x 2160 resolution.





Front View

Rear View

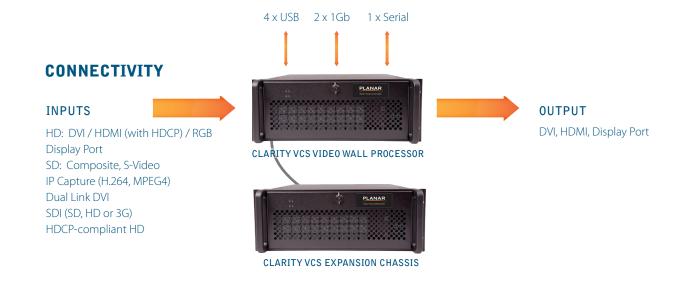
Clarity VCS features server-class CPU, PCI Express switched fabric, RAID hard drives, redundant power suppliers and modular expansion.

KEY SYSTEM FEATURES

- Network-centric collaboration tools
- Extensive control of the software's user access permissions with the integrated user rights management system
- Expanded connection options including 4K Display Port and IP Capture
- Powerful and user-friendly graphical user interface
- Scalable from small to large installations
- Clarity VCS Control Software v5 available in Standard and Enterprise Editions

BROAD RANGE OF SOURCE CAPTURE

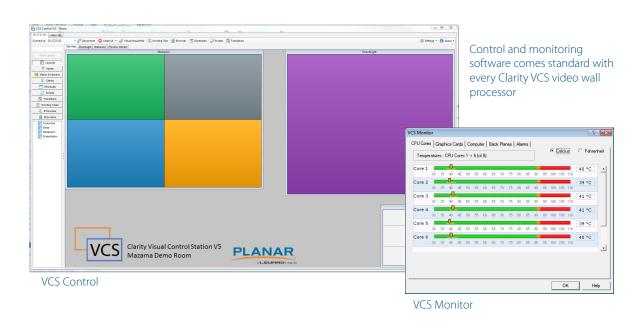
Clarity VCS offers a selection of cards to capture and display a wide range of visual sources. High resolution video sources can be connected using Display Port, DVI, HDMI, component HD, analog RGB, Dual Link DVI, SDI (SD, HD, 3G), composite, S-Video and IP Sources. Collaboration tools allow users to share their individual screens on the video wall. Additionally, Windows® applications can be installed and used as content sources on Clarity VCS. Through different configurations, captured sources and local files can be displayed simultaneously to provide the flexibility and freedom of choice that is unachievable with many video wall processors.



CONTROL AND MONITORING SOFTWARE

VCS Control Software v5 provides a visual environment to control the entire video wall layout. With VCS Control Software, windows on the video wall can be opened, positioned and sized. Multiple layouts can be saved, recalled and sources can be rotated with scheduling features. The VCS Control Software interface dynamically adjusts to display whatever type of source is connected to the processor. The software's interface complies with the familiar Windows® design standards, making it intuitive and easy to learn.

The VCS Control Software v5 provides powerful collaboration tools including an integrated user rights management system and screen sharing capabilities. The user rights management system has 16 different access permissions to allow customized access in the VCS Control Software. Customized access rights may include access to content, scheduler, or specific sections on the screen. The software can support its own directory or can sync with the Active Directory.



FLEXIBLE OPERATION

VCS Control Software v5 runs directly on the Clarity VCS video wall processor and can be managed on any local or network connected desktop using Windows® 7 OS and linked to a Clarity VCS video wall processor. Clarity VCS can also be controlled by any networked device with web browsing capabilities through the software's web interface control panel. VCS Control Software supports HTTP requests and TCP/IP commands.



STANDARD CONFIGURATIONS								
Clarity VCS Models	VCS5-4DP 4	VCS5-8DP 4	VCS5-8DP 8	VCS5-12DP 8	VCS5-12DP 12	VCS5-16DP 8	VCS5-16DP 12	Custom
Outputs (Display Port)	4	8	8	12	12	16	16	Up to 64 outputs -
HDCP-Compliant Inputs (DVI / RGB / HDMI)	4	4	8	8	12	8	12	depending on input configuration

Clarity VCS Chassis	CLARIT	Y VCS SPECIFICATIONS			
Processor and Memory Options Intel® Core® 17, 16 GB DDR3 Intel® Dual X zore® 17, 16 GB DDR3 Intel® Dual X zore 17, 16 GB DDR3 Intel® Dual X zore 17, 16 GB DDR3 Intel® Dual X zore 18, 16 GB DDR3 Intel® Dual X zore 19, 16 GB DDR3 Intel® Dual X zore 18, 16 GB DDR3 Intel® Dual X zore 19, 16 GB DDR3 Intel® DDR3 Intel® Dual X zore 19, 16 GB DDR3 Int		Clarity VCS Chassis			
Options Intel® Core® 17, 16 GB DDR3 Intel® Dual Xeon, 32GB DDR3 Operating System Windows® 7 64 bit Backplane 3rd generation PCle switched fabric Expansion Slots 18 lane slot; 8 4 lane slots Hard Disk Drive 2 x 750GB removable SATA hard drives with RAID 1 Removable Storage 1 x DVD-RW drive VGA Port Integrated DVI output for control screen Networking 2 x 10/100/1000 Ethernet USB Ports 5 external ports: USB 20 front; 2 US 3.0 Rear Serial Ports 1 via USB to Serial adapter Power Supply 2 x 600 Watt, Redundant Power Consumption 227 Watt (typical) Dimensions (W x H x D) 500 mm x 175 mm x 482 mm Weight 30-32 Kg (shipping) Expansion Chassis Form Factor 19° 4U industrial PC chassis 8 x PCI Express; 4 lane Graphics Output Max Output Resolution Per Card 4 x Display Port 2560/1600 @ 60Hz max resolution each of 2 x Display Port 3840 x 2160 @ 30Hz max resolution each of 2 x Display Port 3840 x 2160 @ 30Hz max resolution each of 2 x Display Port to DVI converter DP Adapt Active Display Port to DVI converter DP Extend Extends Display Port truns to 30m Software Operating System Windows® 7 64 bit Wall Control Options Controller Monitoring Cantroller Monitoring Cantroller Monitoring Controller Monitoring Controller Monitoring Environmental & Regulatory Operating Temperature 0° to +35° C Storage Temperature 5% to 90% non-condensing	Form factor	19" 4U industrial PC chassis			
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Operating System Wall Control Options VCS Control Software V5 Standard VCS Control Software V5 Enterprise Language Support English, French, German, Italian, Portuguese, Russian, Spanish Controller Monitoring Clarity VCS Monitor Environmental & Regulatory Operating Temperature O° to +35° C Storage Temperature -20° to +70° C Relative Humidity S% to 90% non-condensing	DP Extend	Extends Display Port runs to 30m			
Wall Control Options VCS Control Software V5 Standard VCS Control Software V5 Enterprise Language Support English, French, German, Italian, Portuguese, Russian, Spanish Controller Monitoring Clarity VCS Monitor Environmental & Regulatory Operating Temperature O° to +35° C Storage Temperature -20° to +70° C Relative Humidity 5% to 90% non-condensing		Software			
VCS Control Software V5 Enterprise Language Support English, French, German, Italian, Portuguese, Russian, Spanish Controller Monitoring Clarity VCS Monitor Environmental & Regulatory Operating Temperature O° to +35° C Storage Temperature -20° to +70° C Relative Humidity 5% to 90% non-condensing	Operating System	Windows® 7 64 bit			
Portuguese, Russian, Spanish Controller Monitoring Clarity VCS Monitor Environmental & Regulatory Operating Temperature 0° to +35° C Storage Temperature -20° to +70° C Relative Humidity 5% to 90% non-condensing	Wall Control Options				
Environmental & Regulatory Operating Temperature 0° to +35° C Storage Temperature -20° to +70° C Relative Humidity 5% to 90% non-condensing	Language Support				
Operating Temperature 0° to +35° C Storage Temperature -20° to +70° C Relative Humidity 5% to 90% non-condensing	Controller Monitoring	Clarity VCS Monitor			
Storage Temperature -20° to +70° C Relative Humidity 5% to 90% non-condensing		Environmental & Regulatory			
Relative Humidity 5% to 90% non-condensing	Operating Temperature	0° to +35° C			
,	Storage Temperature	-20° to +70° C			
Product Approvals FCC-Class A, RoHS, IEC60950, CE low voltage compliance	Relative Humidity	5% to 90% non-condensing			
	Product Approvals	FCC-Class A, RoHS, IEC60950, CE low voltage compliance			

HD: D	VI / HDMI (with HDCP)/ 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				
HDCP Compliance	via HDMI 1.3 up to 225 MHz				
	Display Port (DP) Capture				
Inputs	2x Independent Display Port 1.2 capture channels				
Max Capture Resolution	4096 x 2160 @ 60Hz				
Connectors	Dual Locking Display Port 1.2				
	Internet Protocol (IP) Capture				
Inputs	2 x 10/100/1000 Ethernet				
Codec Support	H.264 (Mpeg4 Part 10 AVC) Mpeg 4 Part 2, WMV 7 Mpeg 2				
Max Capture Resolution	3 Displays 4096 x 2160 @ 30 FPS 6 Displays 1920 x 1080 @ 60 FPS 12 Displays 1920 x 1080 @ 30 FPS 50+ Displays 704 x 480 (D1) @ 30 FPS				
	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				
	SD Video Capture				
Inputs	Composite and S-video				
Video Formats	PAL, NTSC and SECAM				
Max Capture Resolution	720 x 576				
Max Data Transfer	480 MB/s				
	Options				
Electronics	Capture cards, graphics cards, expansion chasses, SBC and RAP upgrades				
Accessories	Signal converters and extenders, cables, monitors				
Service Plans	Standard two years, extendable up to five years				

CUSTOM CONFIGURATIONS

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

