Touchboards

205 Westwood Ave, Long Branch, NJ 07740
Phone: 866-94 BOARDS (26273) / (732)-222-1511
Fax: (732)-222-7088 | E-mail: sales@touchboards.com

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 and high definition digital video and computer sources.

Clarity VCS can drive video walls of up to 60 high resolution displays when fully configured. Using the Windows® 7 based Clarity VCS Control software, visual sources can be positioned and resized individually anywhere on the video wall or can instantly revert to one of many preset layouts of windows. Clarity VCS is designed to be easy to set up, easy to use and easy to maintain.

All-in-one complete hardware and software solution

CLARITY VCS VIDEO WALL PROCESSOR

Clarity VCS 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 Clarity VCS Expansion Chassis, the processor can expand to support larger numbers of displays and sources. Clarity VCS includes VCS Graphics DP4 output cards, each of which can 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 FEATURES

- Scalable from small to large installations

- Easy installation and maintenance

- No additional software license fees

- Windows® 7 64 bit intuitive UI and application compatibility

- Wide choice of supported inputs

- High availability hardware design

- Supports asymmetrical display configurations

BROAD RANGE OF SOURCE CAPTURE

Clarity VCS offers a selection of capture cards to capture and display a wide range of visual sources. High resolution sources using DVI, HDMI, component HD, analog RGB, Dual Link DVI and SDI (SD, HD, 3G) can be captured. Standard definition video in composite and S-video formats can also be captured. Windows applications can also be installed and used as content sources. Through different configurations, varying combinations of captured and installed sources can be displayed at the same time and managed in a unified fashion using the Clarity VCS Control software. This provides flexibility and freedom of choice that is unachievable with many processors.

4 x USB   2 x 1Gb   1 x Serial

CONNECTIVITY

INPUTS

HD: DVI / HDMI (with HDCP) / RGB
SD: Composite, S-Video
Dual Link DVI
SDI (SD, HD or 3G)
HDCP-compliant HD

CLARITY VCS PROCESSOR

CLARITY VCS EXPANSION CHASSIS

OUTPUT

DVI, HDMI, DisplayPort, VGA to Display Wall

CONTROL AND MONITORING SOFTWARE

Clarity VCS Control software provides a visual environment to control the entire video wall layout. With Clarity VCS Control, windows on the video wall can be opened, positioned and sized. Multiple layouts can be saved and recalled, and sources can be sequenced with a carousel feature. The Clarity VCS Control 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. Every Clarity VCS processor also includes Clarity VCS Monitor software that monitors the health and status of the overall system. Through a graphical interface, system components can be monitored, thresholds configured, and alarms and notifications can be triggered according to the preferences of the administrator.
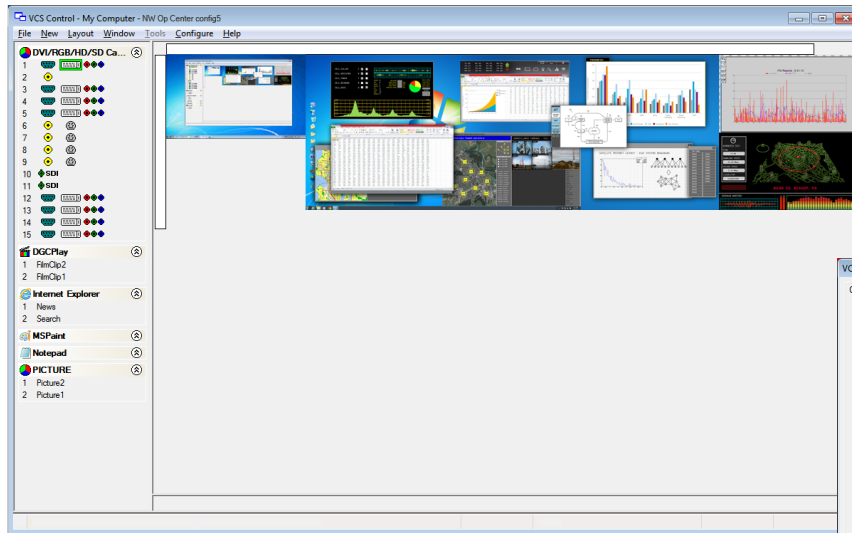
Control and monitoring software comes standard with every Clarity VCS processor
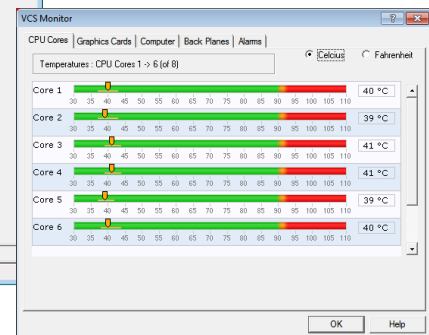
VCS Control

VCS Monitor

FLEXIBLE OPERATION

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

USB

Serial or LAN

KVM

LAN
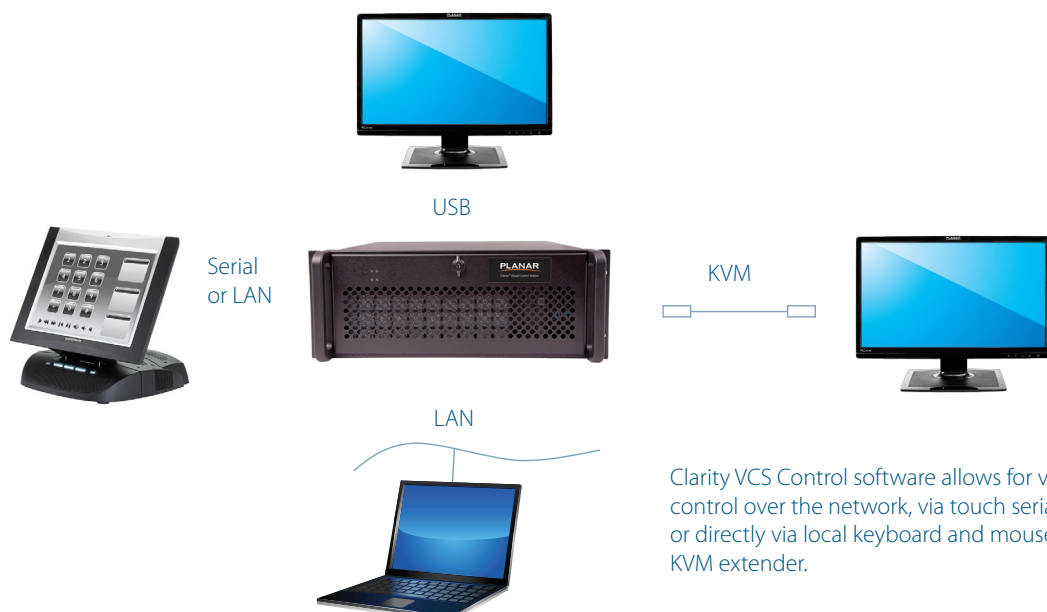
Clarity VCS Control software allows for video wall control over the network, via touch serial interface or directly via local keyboard and mouse control or KVM extender.

STANDARD CONFIGURATIONS

VCS Model	Outputs (DisplayPort)	HDCP-Compliant Inputs (DVI / RGB / HDMI)
VCS-4DP,4	4	4
VCS-8DP,4	8	4
VCS-8DP,8	8	8
VCS-12DP,8	12	8
VCS-12DP,12	12	12
VCS-16DP,8	16	8
VCS-16DP,12	16	12
Custom	Up to 60 outputs -- depending on input configuration	

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.

CLARITY VCS SPECIFICATIONS

VCS Chassis	
Form factor	19" 4U industrial PC chassis
Standard Processors CPU / System Memory	Intel® Core™ i7 8GB DDR3 Optional Processor 32GB DDR2
Optional Processors CPU / System Memory	Intel® Dual Xeon 32GB DDR3
Operating System	Windows® 7 64 bit
Backplane	3rd generation PCIe switched fabric
Expansion Slots	1 8 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 2.0 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
Dimensions (W x H x D)	500 mm x 175 mm x 482 mm
Expansion slots	8 x PCI Express; 4 lane

Graphics Output	
Max Output Resolution Per Card	4x DisplayPort 2560x1600 @ 60Hz max resolution each or 2x DisplayPort 3840 x 2160 @ 30Hz max resolution each
GPU	600 MHz GPU with 512 MB GDDR5 at 800MHz
DP adapt	Active DisplayPort to DVI converter
DP extend	Extends DisplayPort runs to 30m

Software	
Operating System	Windows® 7 64 bit
Wall Control	VCS Control
Language Support	English, French, Spanish
Controller Monitoring	VCS Monitor

CLARITY VCS SPECIFICATIONS (CONTINUED)

HD: DVI / 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

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

Environmental & Regulatory	
Operating Temperature	0º to +35º C
Storage Temperature	-20º to +70º C
Relative Humidity	5% to 90% non-condensing
Product Approvals	FCC-Class A, RoHS, IEC60950, CE low voltage compliance

Options	
Electronics	Capture cards, graphics cards, expansion chasses, SBC and RAM upgrades
Accessories	Signal converters and extenders, cables, monitors
Service Plans	Standard two years extendable up to five years

PLANAR

When image experience matters.

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

Touchboards

205 Westwood Ave, Long Branch, NJ 07740
Phone: 866-94 BOARDS (26273) / (732)-222-1511
Fax: (732)-222-7088 | E-mail: sales@touchboards.com