



- ▶ Real time high resolution video image collection and processing
- ▶ Supports for a wide variety of input signal formats
- ▶ Maximum input and output resolutions 1920×1200@60Hz and 3840×2400@30Hz for 4K cards
- ▶ Hardware based, OS-free architecture for image quality and reliability
- ▶ HDMI/DVI inputs are HDCP compliant
- ▶ Available with redundant power supplies

Features and Benefits

- Video input formats include VGA, YpbPr, CVBS, DVI Single and Dual Link, HDMI, SDI, and DisplayPort
- Input resolutions up to 1920x1200@60Hz, or 3840x2400@30Hz for 4K input cards
- Output video formats include VGA, DVI Single and Dual Link, HDMI, and SDI
- Output resolutions to 1920x1200@60Hz, or 3840x2400@30Hz for 4K output cards
- Allows management of up to 36 video wall display groups from a single UltraVista Pro
- Each screen group can have a unique resolution
- Displays up to four different video source windows on each output screen group
- Picture in Picture support allows video windows to be overlaid
- Input video can be cropped and zoomed
- Overlay labels for input channels provide easy identification of signal source
- Screen group configurations can be named, saved and reloaded, or displayed in loops
- Hot swappable input and output cards
- Windows based software allows configuration control via IP or RS-232 connection

Product Overview

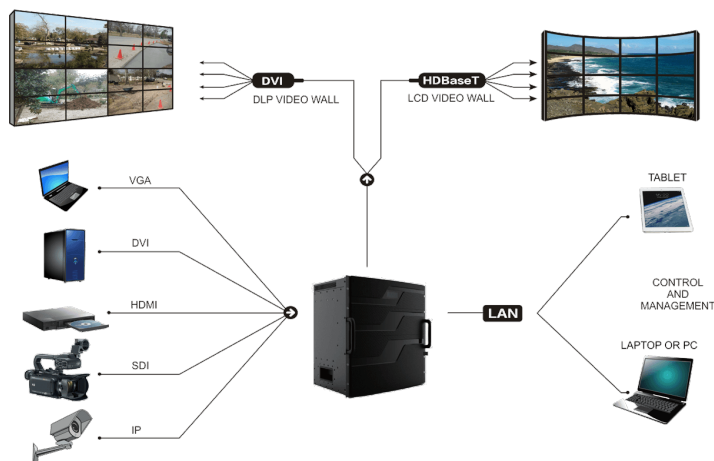
The Rose Electronics UltraVista Pro Image Processing Video Wall is a state of the art product for creating multiple screen video displays. Its support for a wide range of input signal types, as well as its ability to create multiple groups of output screens with different characteristics make it a significant advancement over traditional video wall equipment.

Windows based configuration software allows the formation of multi-display screens with up to four different video sources displayed concurrently, either side by side or as a picture in picture overlay. Input images can be cropped for display or zoomed for emphasis. Up to 32 such configurations can be named and saved for recall as needed. Saved configurations can also be displayed sequentially in a loop.

Hardware input and output cards are modular and hot swappable, for both flexibility and convenience. Optional load sharing power supplies are available for critical applications.

UltraVista Pro is available in chassis models which support either two windows or four windows per output screen.

Typical Application



Overview The UltraVista Pro Video Wall processor accepts a wide variety of video input signals for display on screens grouped as video walls. The input signals can be processed and combined for the optimal viewer experience.

Installation Connect the appropriate video cables from video sources to the appropriate connectors on the input cards. Connect DVI-I, HDMI, or BNC cables from the unit's output connectors to the appropriate displays. Apply power to the Video Wall Processor. Install the configuration software on a Windows based PC, laptop, or tablet and connect the Video Wall Processor's RJ-45 connector to your network.

Alternatively connect the configuration PC serially to the UltraVista Pro's RS-232 connector. Configure the input signals as desired, directing the video sources to the appropriate groups of output displays. If desired, identify and save the configuration details for future recall.

Part numbers

Chassis	
VWL-CH-DP02	Chassis 2U, 2 windows/output
VWL-CH-DP04	Chassis 4U, 2 windows/output
VWL-CH-QP04	Chassis 4U, 4 windows/output
VWL-CH-DP08	Chassis 8U, 2 windows/output
VWL-CH-QP08	Chassis 8U, 4 windows/output
VWL-CH-DP14	Chassis 14U, 2 windows/output
Input Cards	
VWC-IC-DPQP-04DVI	4 ports DVI Single Link
VWC-IC-DPQP-04VGA	4 ports VGA
VWC-IC-DPQP-04HDM	4 ports HDMI
VWC-IC-DPQP-04SDI	4 ports SDI
VWC-IC-DPQP-04HDB	4 ports HDBaseT
VWC-IC-DPQP-04FSM	4 ports Single Mode Fiber
VWC-IC-DPQP-02DDL-4K	2 ports DVI Dual Link (4K)
VWC-IC-DPQP-02DP11-4K	2 ports DisplayPort (4K)
Output Cards	
VWC-OC-DPQP-04DVI	4 ports DVI-I / VGA
VWC-OC-DPQP-04HDM	4 ports HDMI
VWC-OC-DPQP-04SDI	4 ports SDI
VWC-OC-DPQP-04HDB	4 ports HDBaseT
VWC-OC-DPQP-04FSM	4 ports Single Mode Fiber
VWC-OC-QP-02DDL-4K	2 ports DVI Dual Link (4K)
VWC-OC-QP-02HD-4K	2 ports HDMI 1.4 (4K)

Specifications

Video	
Video Input	VGA, YPbPr, CVBS, DVI, HDMI 1.3, SDI, DVI Dual Link, DisplayPort 1.1, Fiber
Video Output	DVI, VGA, HDMI, SDI, Fiber, HDBaseT
Maximum Resolution	1920x1200@60Hz, or 3840x2400@30Hz (4K)
Power	100 – 240VAC, 50 – 60Hz 150W maximum
Environmental	Operating temp: 32°F – 122°F (0°C – 50°C) Storage temp: -4°F – 158°F (-20°C – 70°) Rel. humidity: 20% – 80%, non-condensing

Specifications Continued

Dimensions and card capacity

	Rack Size	Dimensions (in/mm)	Maximum Inputs			Maximum Outputs	
			Digital 1080p	Digital 4K	Analog	Digital 1080p	Digital 4K
VWL-CH-DP02	2U	17.2 x 3.5 x 15.0 / 438 x 89 x 380	8	4	32	8	–
VWL-CH-DP04	4U	17.2 x 7.0 x 15.0 / 438 x 178 x 380	16	8	64	16	–
VWL-CH-QP04	4U	17.2 x 7.0 x 15.0 / 438 x 178 x 380	24	4 ^Δ	96	8	4
VWL-CH-DP08	8U	17.2 x 14.0 x 15.0 / 438 x 356 x 380	32	16	128	36	–
VWL-CH-QP08	8U	17.2 x 14.0 x 15.0 / 438 x 356 x 380	52	8 ^Δ	208	18	9
VWL-CH-DP14	14U	17.2 x 24.5 x 15.0 / 438 x 623 x 380	64	32	256	72	–

Input Cards

	VGA	DVI Single-Link	DVI Dual-Link	HDMI	SDI	DisplayPort	HDBaseT	Fiber
Signal Format	RGBHV	DVI-D	Dual-Link DVI	HDMI 1.3 with HDCP	HD-SDI / 3G-SDI	DisplayPort 1.1	HDBaseT	Single-Mode
Maximum Resolution	1920 x 1200	1920 x 1200	3840 x 2400	1920 x 1200	720p/1080p	3840 x 2400	1920 x 1200	1920 x 1200
Horizontal Scan Rate	15 – 90 kHz	–	–	–	–	–	–	–
Custom EDID	Yes	Yes	Yes	Yes	–	Yes	Yes	–
Impedance	75 Ω	50 Ω	50 Ω	–	75 Ω	–	–	–
Reference Level	0.7 V p-p	–	–	–	–	–	–	–
Maximum Data Rate	165Mz x3	4.95 Gbps	9.6 Gbps	4.95 Gbps	3 Gbps	9.6 Gbps	4.95 Gbps	4.95 Gbps
Connector	HD15	DVI	DVI	HDMI A	BNC	DisplayPort	RJ45	Duplex LC

Output Cards

	DVI/VGA	SDI	Twisted Pair	Optical Fiber
Signal Format	DVI-I in DVI 1.0	HD-SDI / 3G-SDI	Twisted pair differential signal	Single-mode optical signal
Maximum Resolution	1920 x 1200	720p / 1080p	1920 x 1200	1920 x 1200
Color Depth	32 bits / pixel	–	32 bits / pixel	–
Maximum Distance	82 ft / 25 m (DVI)	–	328 ft / 100 m	32808 ft / 10 km
Impedance	50 Ω	75 Ω	–	–
Connector	DVI-I	BNC	RJ45	LC

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