UltraVista 4K

- ► Real time high resolution 4K UHD creative multi display processor
- ► Three models which vary by input signal: DVI, HDMI, or DisplayPort inputs each supporting 4K UHD video
- ► Each model has four DVI-I outputs with Full HD 1920×1080p resolution
- ► EDID management allows non-standard input resolutions
- ► Bezel compensation and overlap creation
- ► Multiple device cascading supports larger video wall display systems

Features and Benefits

- Three different models support either dual-link DVI, HDMI 1.4, or DisplayPort video input at 4K resolutions up to 3840×2160@30Hz
- Each model has four Full HD DVI video outputs with resolutions up to 1920×1080@60 Hz
- The DVI-I output interface can output either DVI or VGA signals
- Each display output can be individually rotated or mirrored for a mix of portrait and landscape oriented displays
- Bezel compensation and overlap creation for edge blending
- Multiple UltraVista 4K devices can be cascaded to support video walls with a larger number of display tiles
- Frame locking between cascaded units ensures a perfectly synchronized video wall
- Windows based software allows easy configuration control via IP or RS-232 connection
- EDID management provides for non-standard input resolutions
- Four status indicator LED's for quick reference of output channel activity
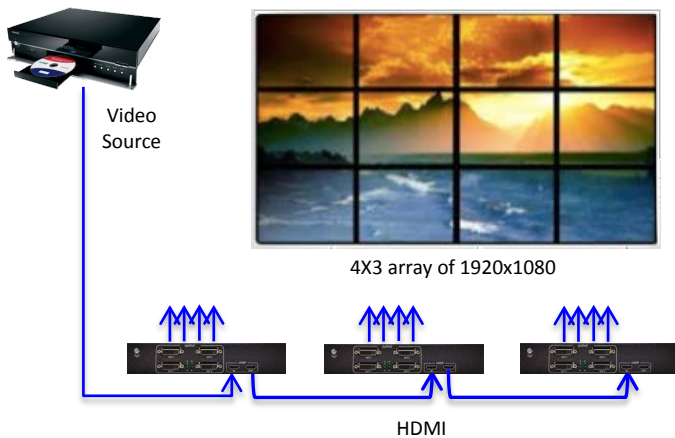
Product Overview

The Rose Electronics UltraVista 4K is a state of the art video wall image processor that captures a 4K UHD input signal for output to four or more display monitors or video wall tiles.

The three different UltraVista 4K models are designed to support high-resolution video input from any of three video signal types: dual-link DVI, HDMI 1.4, or DisplayPort. Use of 4K UHD video input helps ensure crystal-clear HD output to four DVI or VGA displays.

The input image can be cropped to generate dynamic display visuals, and output signals can be manipulated in any desired manner, including splicing a portion of the image to an output signal, and moving or overlaying the output signals. Each display output can also be individually mirrored or rotated by 90°, 180° or 270° to generate a mix of portrait and landscape oriented displays.

Multiple UltraVista 4K units can be daisy chained to form a cascaded system utilizing eight, twelve or more display monitors. The cascade ports on each unit have an HDMI interface with frame locking to ensure perfect synchronization and optimal viewing of the video wall display.

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Typical Application

4X3 array of 1920x1080

HDMI

Using cascading feature to implement 4x3 video wall

Installation   Connect the appropriate video cables from the video source to the input connector on the UltraVista 4K. Connect DVI cables from the unit's output connectors to the appropriate displays. Apply power to the UltraVista 4K. Install the configuration software on a Windows based PC, laptop, or tablet. Connect an Ethernet router or a crossover cable to the UltraVista 4K's RJ-45 connector for a TCP/IP interface. Alternatively connect the configuration PC serially to the UltraVista 4K's RS-232 connector. Configure the output display orientation as desired, sizing the video source to the configured output display grouping.

Operation The UltraVista 4K package comes with a Windows based SmartEditor configuration software. Once the Ethernet connection has been established, the default IP address in the UltraVista 4K can be changed to one suitable for the application environment. A series of menus will guide the user to the main screen desktop display. The desktop display is then used to configure the video wall including display orientation, output display resolutions, advanced timings, pixel pitch, border wall compensation and many more features.

Specifications

Dimensions (W x D x H)	8.9" x 7.9" x 187" 225 x 200 x 45 mm
Weight	3 lb (1.4Kg)
Power	100-240 VAC 50-60Hz +12V 3.3A
Video resolution	**DVI, HDMI, DisplayPort Input:** 1920×1080@60Hz, 2560×1600@60Hz, 3840×2160@30Hz **DVI Output:** 1024×768@60Hz to 1920×1080@60Hz
Signal Format	**Input:** DVI: dual-link HDMI: HDMI 1.4 DisplayPort: DisplayPort 1.1 **Output:** DVI-I
Image Rotation	90°, 180° or 270°, mirroring
Bezel compensate	Yes
Overlap creation	Yes
Control method	RS-232 (DB9F), Ethernet (TCP/IP)
Control software	Smart Editor for Windows (included)
Connectors	**Input:** DVI Unit: 1 x DVI-I (Digital only) HDMI Unit: 1 x HDMI Type A DisplayPort Unit: 1 x DisplayPort **Output:** 4 x DVI-I (DVI or VGA)
Environment	Operating temp: 32°F–104°F (0°C–40°C) Relative humidity: 10%–90%, non-condensing

Part numbers

VWL-T222-4K-DVX	UltraVista 4K, DVI, Cascadable
VWL-T222-4K-DPX	UltraVista 4K, DP, Cascadable
VWL-T222-4K-HMX	UltraVista 4K, HDMI, Cascadable
VWL-T122-4K-DV	UltraVista 4K, DVI Input
VWL-T122-4K-DP	UltraVista 4K, DP Input
VWL-T122-4K-HM	UltraVista 4K, HDMI Input
CAB-DVIDMM006	DVI-D extension cable, 6ft (2m)
CAB-DVIDMM010	DVI-D extension cable, 10ft (3m)
CAB-DPDPMM006	DisplayPort extension cable, 6ft (2m)
CAB-DPDPMM010	DisplayPort extension cable, 10ft (3m)
CAB-HDMIMM006	HDMI extension cable 6ft (2.0m)
CAB-HDMIMM010	HDMI extension cable 10ft (3.0m)