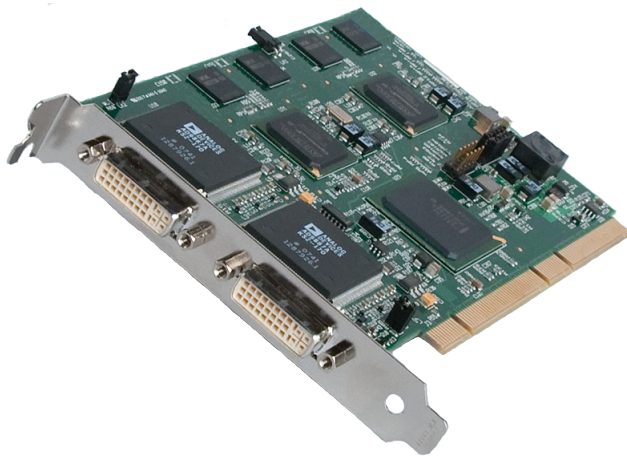


VisionRGB-X2

Dual Channel RGB/DVI/HD Capture Card Advanced Graphics Display Technology



HD 1080p

HDMI 1080p

DVI - 1920x1200

RGB 2048x1536

DESCRIPTION

The VisionRGB-X2 has two complete capture channels, each supporting up to 1920 x 1200 DVI or 2048x1536 Analog resolution.

The VisionRGB-X2 captures the Analog/DVI data and triple buffers it into onboard storage. This data is then copied using DMA to the host system for display, storage or streaming.

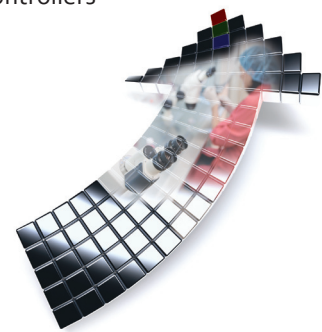
When a Datapath graphics card is used, the VisionRGB-X2 transfers the data directly to the graphics card thereby increasing performance. The VisionRGB-X2 sends the relevant portions of each captured image to each display channel and instructs each channel to use its graphics engine to render the data. This fully utilises the hardware and dramatically increases performance.

When the RGB/DVI data is displayed on a non Datapath graphics card, the VisionRGB-X2 sends the data to system memory or direct to the graphics card, dependant on the software used for display.

The VisionRGB-X2 is an ideal solution for applications that require the capture of Analog or DVI sources in real time.

Typical applications include:

- Viewing Analog or DVI sources from PCs, MACs, Industrial/medical equipment, cameras and other video equipment.
- Streaming video applications.
- Video/Data Wall Controllers



FEATURES

- Half size 64 bit PCI-X Card.
- Dual Channel real-time Analog or DVI capture with high speed 500MB/s DMA transfer.
- Capture resolutions up to 2048 x1536 Analog or 1920 x1200 DVI and HD modes.
- Support for non-interlace video sources.
- On board processor providing auto-sync and capture mode detection.
- 64MB DDR capture memory.
- Software compatible with the VisionRGB-PRO product range.
- Includes WDM streaming drivers and the Datapath VisionRGB application software.
- Fully integrated with the Datapath Wall Control software for video wall applications.
- VisionRGB-X2 is also optimised for operation with the Datapath range of graphics cards.
- Support for multiple cards allowing up to 32 capture channels. (16 cards)
- Support for Windows® XP/Vista / Server 2003 Server 2008 and Windows® 7.
- Datapath SDK included for software developers.

VIDEO STREAMING

For streaming applications, the VisionRGB-X2 can be used with Windows Media Encoder to compress and stream captured video. To replay the video, use Windows® Media Player.

Any application compatible with Windows Direct-Show technology can use the VisionRGB-X2 due to its built-in WDM support.

MODELS AVAILABLE

VisionSD8 - Supplied with BNC16 input cable

SOFTWARE

The VisionRGB-X2 is supplied with a powerful software application for configuring the timing and format of the input sources and displaying the data. Simply connect your external DVI or Analog source into the card, run the VisionRGB-X2 application to automatically detect the video source format and display the captured video in a window on your desktop.

WALL CONTROL SOFTWARE

The VisionRGB-X2 card is supplied with a free version of Wall Control without the advanced features.

Wall Control presents a representational window of the entire display wall showing position and size of video windows.

Datapath Wall Control software enables you to configure your multi-screen display, launch video overlays and create a wall layout configuration. With the full version it is possible to save layouts and recall them for future use and also operate Wall Control on a remote PC via a network connection.

Wall Control is available in two versions:

- Wall Control - Free version.
- Wall Control-PRO-HK - Licensed version with a hardware USB key (dongle)
- Wall Control-*red* - Designed for use with the Vision800/860 with added support for IP Video Cameras

RELATED PRODUCTS

Vantage4

Vision800

Vision860



SPECIFICATION

Board Format	64 bit, up to 66MHz PCI-X, half size plug-in card 105mm x 170mm. PCI Bus Master with scatter/gather DMA providing up to 1GB/sec peak, 500MB/sec sustained.
Connectors	Two DVI-I Type connectors.
Maximum Sample Rate	170 Mpixels per second RGB or 165MHz DVI.
Video Sampling	RGB: 24 bits per pixel/8-8-8 format.
Video Capture Memory	64MB (updated in real time). Triple buffered.
Analog RGB Mode Support	640x480, 800x600, 1024x768, 1280x1024, 1600x1200, 1920 x 1200, 2048 x 1536, Custom modes.
DVI Single Link Mode Support	640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x 1200. HD modes (using a Component-DVI connector)1080p,1080i, 720p, 576p, 576i, 480p and 480i and Custom modes.(HDCP modes not supported)
Input Mode Detection	Automatic detection of input modes in hardware, enabling the tracking of mode changes in the source signal.
Pixel Transfer Formats	RGB: 5-5-5, 5-6-5 or 8-8-8 (24bit/32bit) pixels. YUV 4:2:2: UYVY, YUY2, YVYU. MONO: 8bit
Update Rate	User defined, typically up to 60 frames per second, limited by available PCI bandwidth. Multi-buffered to eliminate tearing artifacts.
Video Format Options	Analog RGB plus HSync and VSync (5 wire.) Analog RGB with Composite Sync (4 wire.)- Progressive Analog RGB with Sync on Green (3 wire.) DVI Single Link.
Operating System Support	Windows® XP Professional (x86 and x64), Windows® Server 2003 (x86 and x64), Windows Vista® (x86 and x64), Windows® Server 2008 (x86 and x64) and Windows® 7
Power Requirements	Max current at +3.3V – 0.25A. Max current at +12V – 0.6A. Max power – 8 Watts.
Operating Temperature	0 to 35 deg C / 32 to 96 deg F
Storage Temperature	-20 to 70 deg C / -4 to 158 deg F
Relative Humidity	5% to 90% non-condensing.
Analog Input Range	Min 0.5Vpp Max 1.0Vpp
Input Offset	+/-2V
Hsync	15kHz - 110kHz
Vsync	No hardware limits, typically 25Hz - 200Hz for real signals
Separate Sync Polarity	Positive or Negative. (Separate H & V sync, Composite Sync).
Sync On Green Polarity	Negative
Inputs	75 Ohm terminated
Warranty	1 year

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