

VisionDVI-DL

Single Channel Dual-Link DVI Video Capture Card Advanced Graphics Display Technology



DESCRIPTION

The VisionDVI-DL is a single channel PCI Express Dual-Link DVI video capture card. A stand alone PCI Express x4 plug in card, the VisionDVI-DL delivers extreme performance with 650MB/s transfer bandwidth. A maximum canvas of 4kx4k allows any DVI source to be captured.

The VisionDVI-DL has integrated DVI equalizers on its inputs to support longer input cable lengths (up to 20m). The VisionDVI-DL is suitable for a wide range of applications including:

- Large display walls
- High resolution, high bandwidth applications
- Advanced Medical and Machine Vision capture
- Radar, Security/Surveillance and Military applications
- IP Render decode capture

SOFTWARE CONFIGURATION

The VisionDVI-DL is supplied with a powerful software application for configuring the format of the input sources and displaying the data. Simply connect your video source into the card, run the VisionDVI-DL application to automatically detect the video source resolution and display the captured video in a window on your desktop.

FEATURES

- Single Channel PCI Express 4 lane bus with maximum data rate of 650MB/sec, allowing High resolution sources to be displayed at full frame rate
- Support for 330MHz pixel clock and a maximum canvas of 4k x 4k
- HD video capture for all progressive and interlaced DVI/HDMI modes
- Captures Quad-HD Digital Cinema modes at 24/25/30fps
- 128MB on board frame buffer
- Input equalisation supporting longer input cables
- High performance DMA to system memory or direct to graphics memory with scatter gather
- High quality scaling (7x3 Polyphase filter)

WALL CONTROL SOFTWARE

Wall Control-red 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-red on a remote PC via a network connection.

VIDEO STREAMING

For streaming applications, the VisionDVI-DL 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® DirectShow technology can use the VisionDVI-DL due to its built-in WDM support.

SPECIFICATION

Board Format	PCI Express x4 card, 110mm x 170mm. PCI Express bus master with scatter gather DMA providing a maximum data rate of 650MB/s.
Connectors	One Dual Link DVI-D connector.
Maximum Sample Rate	330 MHz DVI - Capable of Quad HD at 24/25/30fps.
Video Capture Memory	128 MB, triple buffered.
DVI-Dual-Link	Single Link and Dual Link modes auto detected.
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. MONO: 8bit.
Update Rate	User defined, captured frame rate will match the source. Providing max data rate (650MB/s) is not exceeded. Multi-buffered to eliminate tearing artifacts.
Video Format Options	DVI Dual-Link. DVI Single-Link.
Operating System Support	Windows® XP, Windows® Vista, Windows® Server 2003, Windows® Server 2008 and Windows® 7.
Power Requirements	Max current at +3.3V – 0.2A. Max current at +12V – 0.9A. Max power – 12 W
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.
Warranty	3 years

We are continuously developing the technology used within our product ranges delivering outstanding innovative solutions, therefore the specification may change from time to time.

MODELS AVAILABLE

Code	Description
VisionDVI-DL	Dual-Link DVI Capture Card

All products are shipped with the latest software available, unless stated otherwise. Special requirements may be organised by contacting our Sales team.