

# VisionSDI2

## Dual Channel SDI2 3G-SDI Video Capture Card Advanced Graphics Display Technology



### DESCRIPTION

The VisionSDI2 is a dual channel PCI express HD-SDI video capture card. The card supports SD-SDI, HD-SDI and 3G-SDI (including 2K Digital Film Resolution modes). The VisionSDI2, a stand alone PCIe x4 plug in card, delivers extreme performance with 650MB/s transfer bus bandwidth. This industry beating performance makes the VisionSDI2 ideal for a wide range of applications including:

- Display wall controllers
- Broadcasting
- Machine Vision: Acquire SDI camera outputs
- Advanced Medical applications

### SOFTWARE CONFIGURATION

The VisionSDI2 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 VisionSDI2 application to automatically detect the video source format and display the captured video in a window on your desktop.

### FEATURES

- Dual Channel PCI express 3G/ HD/ SD capture card
- Four lane PCIe bus with maximum data rate of 650MB/sec
- Support for all 3G/HD/SD video modes up to 1080p 60Hz
- Loop Through SDI BNC connections
- 64MB per channel, total 128MB on board frame buffer
- On board processor for real time mode and sync detection
- Audio output for each channel to an onboard SPDIF header (use with the Datapath Audio Output Module)
- High performance DMA to system memory or direct to graphics memory with scatter gather.
- High quality scaling (7x5 Polyphase Filter)
- Input status indicator lights
- Long range, single co-ax cable support. (150 metres capturing 1080p, 300 metres capturing SD)
- 16 cropping windows per capture channel

## VIDEO STREAMING

DirectShow drivers for WDM Streaming driver supports the following applications, to encode, record and stream video over networks or the Internet:

- Microsoft Media Encoder®
- VLC
- VirtualDub
- Any other DirectShow encoding software

For streaming applications, the VisionSDI2 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 VisionSDI2 due to its built-in WDM support.

## SPECIFICATION

Board Format	PCI-e x4 plug-in card, 110mm x 170mm. PCI-e bus master with scatter gather DMA providing maximum data rate of 650MB/s.
Connectors	Four BNC connectors for SDI inputs and outputs.
Maximum Capture Resolution	2x 2048x1556 at 24fps, 2x 1920x1080 at 60fps
Maximum SDI Bit Rate	3Gb/s
Frame Buffer Memory	64 MB per channel (total 128MB).
Input Mode Detection	Supports SMPTE - 352 Payload Identifiers
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 Modes	SD-SDI (480i/576i) HD-SDI (up to 1080i) 3G-SDI (up to 1080p) 2K Digital Cinema modes
Operating System Support	Windows® XP, Windows® Vista, Windows® Server 2003, Windows® Server 2008 and Windows® 7.
Power Requirements	Max current at +3.3V – 0.45A. Max current at +12V – 0.85A. Max power – 12W
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.*

## WALL CONTROL-RED

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

Datapath Wall Control-*red* 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.

## MODELS AVAILABLE

Code	Description
VisionSDI2	Dual HD-SD capture card

All products are shipped with the latest software available, unless stated otherwise.

Special requirements may be organised by contacting our Sales team.