VisionSC-SDI4

Capture multiple SDI sources

DESCRIPTION

Developed for capturing multiple High Definition SDI video signals, the VisionSC-SDI4 is the perfect solution to AV professionals looking to capture from multiple SDI sources.

Ideal for use in broadcast markets or with any SDI capable applications the VisionSC-SDI4 provides four 3G-SDI inputs each capable of capturing 1920 x 1080p at 60 frames per second. Each capture channel is hardware timestamped allowing for larger surfaces to be captured and stitched together.

FEATURES

- Four independent 3G-SDI capture channels
- Four channels of 1920 x 1080p 60fps capture
- Eight lane PCIe Gen 3 interface
- Frame buffer memory - 768 MB
- Single PCIe endpoint, allowing for more cards & captures to be placed within a single system
- Full support of the Vision Feature set
- Datapath unified Windows® and Linux® driver support
- Support for multi-channel audio

Engineering the **world's best** visual solutions

DATAPATH
EXCELLENCE BY DESIGN

Four channel 3G-SDI video capture card

VISION PERFORMANCE FEATURES

The VisionSC-SDI4 is supported by the Datapath Vision Performance Driver. Combining both Hardware and Software enhancements the Vision Performance Driver provides users with a variety of features to help them achieve their goals.

Features include LiveStream:Capture, a low latency capture solution, MultiStream allowing for the independent control of multiple instances of a single capture. A hardware based timestamping facility, automatic signal detection and more.

VIDEO STREAMING

DirectShow drivers for WDM Streaming 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 VisionSC-SDI4 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 VisionSC-SDI4 due to the built-in WDM support.
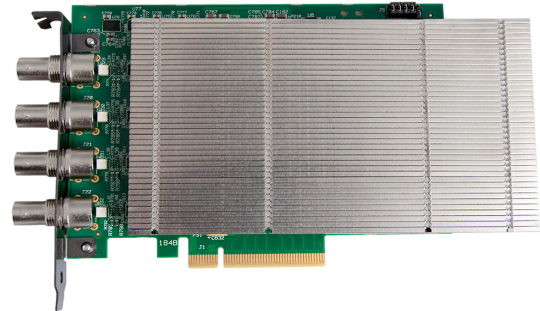
COMPATIBILITY

The VisionSC-SDI4 is supported by the following operating systems: Windows® 10, 11, Windows Server 2019, 2022. Video 4 Linux (V4L)

Datapath SDK is included for software developers.

MODELS AVAILABLE

Order Code: VisionSC-SDI4
Four channel 3G-SDI capture card

SPECIFICATION

BOARD FORMAT
PCIe x8 plug-in card

DIMENSIONS
110mm x 177mm (incl heat sink)

CONNECTORS
4 x BNC Connectors

MAX CAPTURE RESOLUTION
2.97Gbps capture bandwidth per channel. Provides => 4 * 1920 x 1080p at 60Hz. Frame Buffer 768MB

INPUT MODE DETECTION
Supports SMPTE - 352 Payload Identifiers

SAMPLE FORMATS
RGB: 4-4-4 (+A)
YUV: 4:2:2 (+A), 4:4:4 (+A)

SMPTE STANDARDS
ST-259, ST-272, ST-274, ST-291, ST-292, ST-293, ST-296, ST-299, ST-352, ST-424, ST-425, ST-2048

UPDATE RATE
User defined. Captured frame rate will match the source providing max data rate (6 GB/s per channel) is not exceeded.
Multi-buffered to eliminate tearing artefacts

VIDEO MODES
480i, 576i 720p, 1080i, 1080p,1080psF, 2048 x 1080p, 2048 x 1080psF

SUPPORTED FRAME RATES
23.98Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 50Hz, 59.94Hz & 60Hz

POWER
Max current at +3.3 - 0.45A. (TBC)
Max current at +12V - 0.85A (TBC)
Max power ≈ 18W

OPERATING TEMP
0 °C to 35 °C / 32 °F to 96 °F

STORAGE TEMP
-20 °C to 70 °C / -4 °F to 158 °F

RELATIVE HUMIDITY
5% to 90% non-condensing

WARRANTY
3 years

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

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