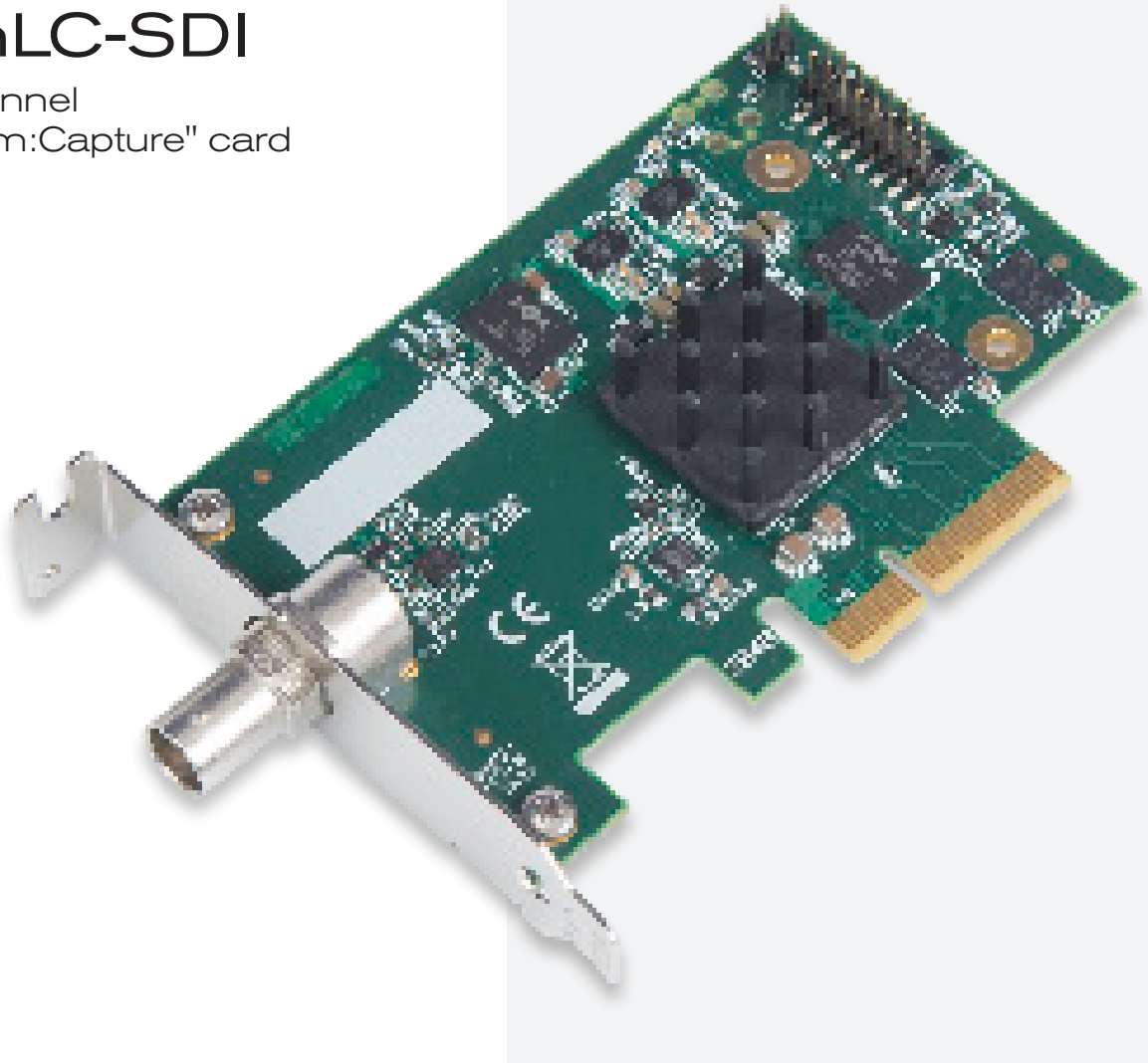


VisionLC-SDI

Single channel
"LiveStream:Capture" card



HIGH PERFORMANCE CARD

Discreet video capture is now the mainstay of many small form factor appliances being used in markets such as lecture capture, distance learning and medical environments. Datapath's VisionLC-SDI provides tri-band SDI capture for use within such applications.

Datapath's LiveStream:Capture architecture allows captured video to be processed and delivered in real time to a processor or graphics card. The VisionLC-SDI supports on board colour space conversion and scaling, providing the ability to efficiently transfer the video signal in a suitable format for rendering or encoding applications. The VisionLC-SDI natively supports 32, 24, 16 and 12 bit YUV and RGB formats.

FEATURES

- Single SDI capture channel
- SD/ HD/ 3G at 60fps
- 800 MB/s DMA bandwidth
- High performance up and down scaling
- Colour space conversion to support output formats
- PCI Express Gen 1 x4 low profile
- Datapath unified Windows® and Linux® driver support

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


DATAPATH
EXCELLENCE BY DESIGN

Professional digital audio and video capture card

MULTI-APPLICATION CAPTURE

The VisionLC-SDI capture card has been designed for use within application models such as:

- Medical environments
- Simulation systems
- Live events
- PC and gaming console capture
- Lecture and presentation capture
- Real time streaming

It is also possible to put more than a single card into a system for multiple capture channels.

Due to the nature of the LiveStream:Capture architecture, the VisionLC-SDI is not supported for wall controller applications that depend on Datapath's MultiStream technology.

COMPATIBILITY

The VisionLC-SDI is supported by the following operating systems: Windows® 10, 11, Windows Server 2019, 2022*. Linux.

SPECIFICATION

BOARD FORMAT

PCIe Gen 1 x4 plug-in card

DIMENSIONS

103mm x 64mm

CONNECTORS

SDI-BNC

MAX CAPTURE RESOLUTION

SD-HD-3G Level A and Level B at 60fps

TRANSFER RATE

800 MB/s maximum DMA transfer rate

HARDWARE COLOUR SPACE CONVERSION

32 / 24 / 16bit RGB (4:4:4)

16bit YUV (4:2:2)

12bit YUV, NV12, YV12 (4:2:0)

AUDIO SUPPORT

Stereo Pair PCM audio via SDI input at 16 bits in depth, sampling options include 44.1/48/96 kHz

VIDEO MODES

SD-SDI (480i/ 576i) ST-259, EBU 3276

HD-SDI (up to 1080i) ST 260, 274, 296

3G-SDI (up to 1080p) ST 274, 296

2k Digital Cinema modes ST-2048-2

LOW LATENCY

LiveStream:Capture Single frame time plus DMA transfer of final line

POWER REQUIREMENTS

Max current at 1A at 3.3V Max power ≈ 3.3W

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

MODELS AVAILABLE

Order Code: VisionLC-SDI

Single channel "LiveStream:Capture" card

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

* Other platforms may be suitable with older drivers. Please contact the Datapath support team for more information.

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VIDEO STREAMING

Built upon the Microsoft AV Stream framework, VisionLC-SDI inputs can be accessed and enumerated by any DirectShow or Media Foundation supported application. A Video for Linux (V4L) driver package is also available for download.

Tested applications include:

- Microsoft Media Encoder
- VLC
- Telestream WireCast
- vMix
- Opencast Matterhorn
- Vidblaster
- OBS Project
- Adobe Flash Media Encoder
- Dataton Watchout