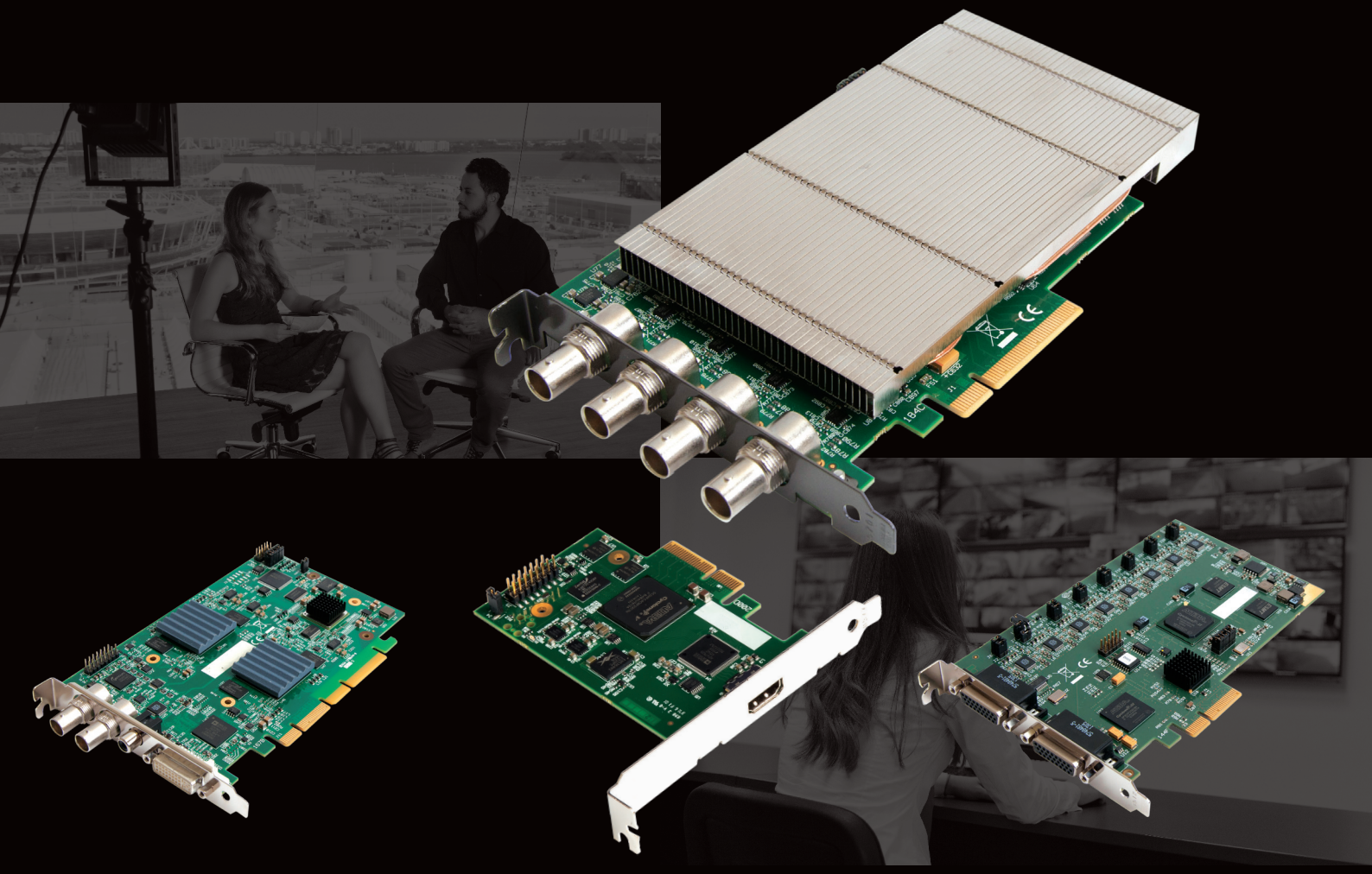
Professional Audio and Video Capture

Reliability made simple



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

DATAPATH
EXCELLENCE BY DESIGN

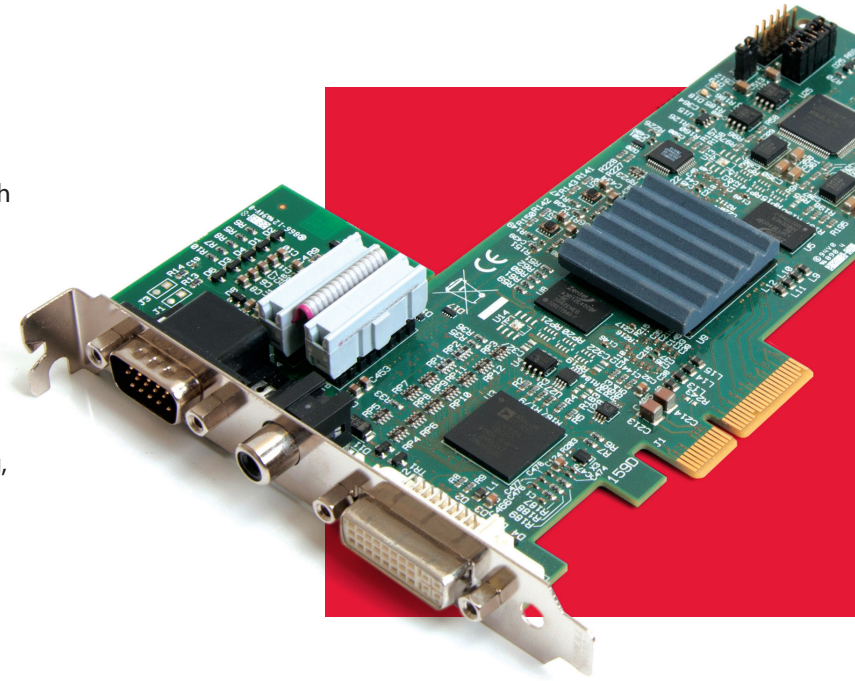
Datapath – engineering the **world's best visual solutions**

Datapath have developed a sizeable portfolio of capture cards.

Ranging from 4K capture to small profile cards, Datapath have a solution to meet all requirements.

Whether you are looking for a video capture solution for streaming, recording or presenting, we have a solution to suit your needs.

With requirements for high quality capture cards increasing and market demands continuously changing, Datapath have a track record of responding by offering innovative products to meet market expectation.



Ideal for a wide range of sectors:

Command and Control

When the need to capture the detail is mission critical, Datapath's Vision capture cards provide the reliability, flexibility and scalability required. Designed to work in harmony with the VSN range of wall controllers, Datapath's capture cards are tested to ensure 24/7 operation. Commonly found in security suites, traffic management hubs and defence installations, Datapath's wide range of capture cards have become vital to many command and control centres.

Lecture Capture

Otherwise known as e-learning or distance learning, lecture capture applications have become integral to universities and educational organisations. Many schools or universities allow students to attend lectures from home or, as part of a blended learning approach, catch up on missed lectures. Lecture capture appliances with Datapath at the heart of the solution are guaranteed to provide stable, high quality captures, ensuring students never miss a thing.

Medical

When milliseconds are the difference between life and death, ultra-low latency is paramount.

A large number of operations, medical procedures and patient monitoring systems now utilise real-time imagery capture. Datapath's range of capture cards are capable of delivering video capture fast.

Live Events

Whether streaming a high energy band at a festival, recording a live orchestra or capturing a camera feed for on-stage display, Datapath's capture cards have it covered. With cards boasting ultra-low latency and 4K capture, whether at the front or back, crowds get a great live experience. Home viewers can watch concerts streamed live over the internet as the event happens.

Broadcast and Live Streaming

Datapath's range of SDI capture cards can be found in news studios around the globe. Whilst being able to capture and process imagery with low latency, MultiStream allows users to take a single capture and send it to multiple processors and screens at once. The broadcast market now includes a large number of IP based streaming services. Datapath's SQX range lets users encode multiple HD captures and stream to an online audience.

Vision Input Matrix

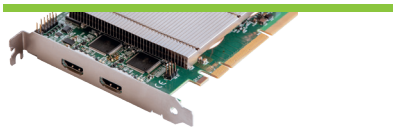
	CAPTURE CARDS																	
	VISIONSC					VISIONAV					VISION					VISIONLC		
	UHD2	DP2	SDI4	HD4+	S2	F/H	B	HD	SDI	HD4	RGB-E1S	RGB-E2S	SD4+1S	SD8	SDI2	HD	HD2	SDI
INPUTS																		
TOTAL INPUTS	2	2	4	4	2	2	2	3	3	4	1	2	5	8	2	1	2	1
MULTISTREAM CLIENTS																		
TOTAL CLIENTS	16	16	16	16	16	16	16	32	32	64	16	32	32	16	32	1	2	1
4K / ULTRA HIGH DEFINITION INPUTS																		
DISPLAYPORT 1.2		2																
HDMI 1.4				2												1	1	
HDMI 2.0	2																	
SDVoE					2													
TOTAL 4K/UHD	2	2	1	2	2											1	1	
HD INPUTS																		
RGB						1	1	2	1	4	1	2	1					
VGA						1	1	2	1	4	1	2	1					
DVI				4		1	1	2	1	4	1	2	1					
DVI-DL																		
HDMI1.3						1	1	2	1	4	1*	2*	1*					
HDMI1.4 (in HD)				4												1	2	
Component						1	1	2	1	4	1	2	1					
HD-SDI			4						1						2			
3G-SDI			4						1						2			1
Total HD	2	2	4	4	2	1	1	2	2	4	1	2	1		2	1	2	1
SD INPUTS																		
Composite						1	1	1	1				4	8				
S-Video													4	8				
SD-SDI									1						2			1
Total SD						1	1	1	1				4	8	2			1
AUDIO INPUTS																		
DIGITAL	2	2	4	4	2	1	1	2	2	4					2	1	2	1
ANALOG (XLR/RCA)						1	1**	1**	1**							1**	1**	1**
TOTAL AUDIO	2	2	4	4	2	2	2	3	3	4					2	2	3	2
PROCESSING																		
TRANSFER RATE	6.4 GB/s	6.4 GB/s	6.4 GB/s	6.4 GB/s	6.4 GB/s	800 MB/s	800 MB/s	1.6 GB/s	1.6 GB/s	3.2 GB/s	650 MB/s	650 MB/s	650 MB/s	480 MB/s	650 MB/s	800 MB/s	1.6 GB/s	800 MB/s

* Requires DVI backwards compatibility of source

** Additional audio module required (not included)

VisionSC Range

Colour accuracy and video quality matters. The VisionSC range, made up of DisplayPort1.2, SDI and HDMI offers 4K capture up to 60 frames per second, with 10-bit colour and HDCP compliance. The range is ideal for a variety of markets where high end video reproduction is needed, including Medical, Broadcast, Defence and Security.



VisionSC-UHD2

The VisionSC-UHD2 provides two HDMI 2.0 capture channels with HDCP2.2 support at 4K60p with 4:4:4 chroma sampling.

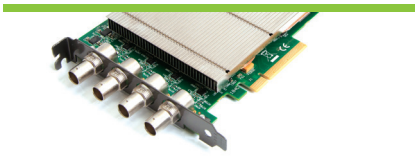
- Eight lane PCIe Gen.3 interface, Net 6.4GB/s total, capture bandwidth
- Full 10-bit processing pipeline
- Fully scalable for use in high density systems supporting multiple capture cards

VisionSC-DP2

The VisionSC-DP2 provides the ability to simultaneously capture 4K, Ultra-High Definition, video feeds each at 60 frames per second.

- Two independent DisplayPort1.2 capture channels
- Up to 8K x 8K capture resolution*
- Single PCIe endpoint allowing for more cards and captures to be placed in a single system

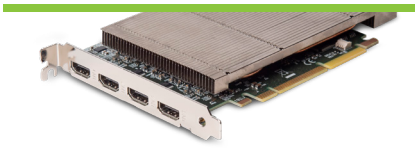
*8K x 8K at lower rates supported based on preliminary testing.



VisionSC-SDI4

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

- Four independent 3G SDI capture channels
- Four channels of 1920x1080p 60fps capture
- Frame buffer memory of 768MB



VisionSC-HD4+

Datapath's VisionSC-HD4+ audio video capture card provides an outstanding powerful solution for multiple HDMI or DVI video captures with support for HDCP.

- Four onboard independent HDMI1.4 video capture channels
- Single PCIe endpoint
- Embedded audio support across all channels

VisionSC-S2

The VisionSC-S2 is an SDVoE compliant capture card supporting 4K60 decoding with zero latency.

- Dual channel 4K60 decoding
- Fully SDVoE compliant
- Zero-latency (under 100 microseconds or 1/150th of a video frame)

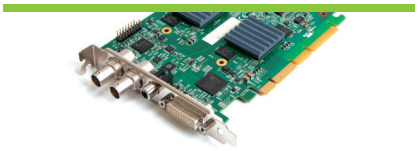
VisionAV Range

The VisionAV range is all about built-in, synchronised, audio capture, making the cards ideal for lecture capture, web casting and video conferencing.

VisionHD4

Capture four DVI-I High Definition DVI streams in a single capture card.

- Eight lane PCIe capture card
- Net 3.2GB/s total capture bandwidth
- Quad channel DVI-I video capture card
- HDMI audio capture with streaming from each DVI channel



VisionAV-SDI

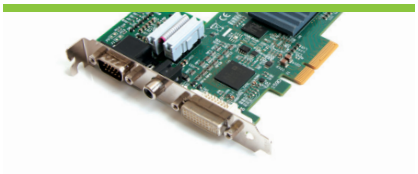
Capable of simultaneously capturing one HD, one SDI with pass through and one SD video input whilst supporting full analog and digital audio.

- Four lane PCIe lane bus. Net 1.6GB/s total capture bandwidth
- SDI embedded audio capture and streaming
- Low input to output capture latency

VisionAV-HD

Two channels of HD DVI video and an extra composite video input, all operating simultaneously and independently with full analog and digital audio support.

- Triple channel PCIe capture card – 2 x DVI-I, 1 x SD
- Four lane PCIe lane bus, Net 1.6GB/s total capture bandwidth
- HDMI embedded audio capture and streaming



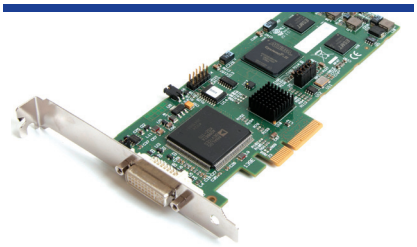
VisionAV

Provides simultaneously SD and HD video capture through one channel of DVI-I or HDMI capture and one channel of composite video capture.

- Dual channel video HD, HDMI and composite video
- Flexible audio capture
- Data transfer up to 800MB/s

Vision Range

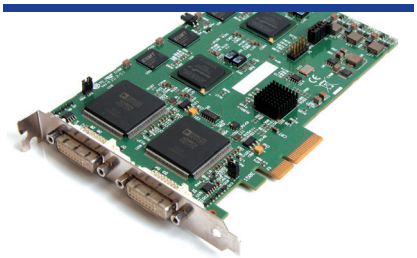
Datapath's Vision range covers a wide array of applications such as lecture capture, medical imaging and video conferencing. The Vision range consists of PCIe cards with DVI or SDI inputs, all of which can be used in a VSN system if needed.



VisionRGB-E1S

The VisionRGB-E1S has a single capture channel supporting up to 1920x1080 DVI or 2048x1536 analog resolution. The VisionRGB-E1S captures the analog or 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.

- Single channel DVI, VGA, HD capture card
- Maximum data rate of 650MB/s
- Maximum DVI capture resolution of 1920x1200 and 1920x1080 at 60fps

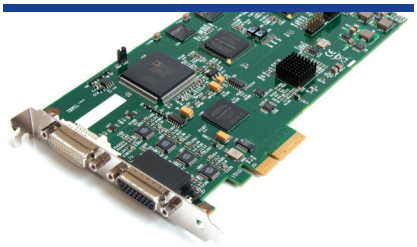


VisionRGB-E2S

The VisionRGB-E2S has two complete capture channels supporting up to 1920x1080 DVI or 2048x1536 analog resolution.

The VisionRGB-E2S captures the analog or 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.

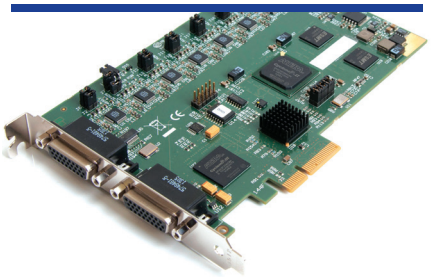
- Dual channel DVI, VGA, HD capture card
- Maximum DVI capture resolution of 1920x1200 and VGA up to 2048x1536 at 60fps
- Maximum data rate 650MB/s



VisionSD4+1S

The VisionSD4+1S has five complete video capture channels supporting a single channel for up to 1920x1080 DVI or 2048x1536 analog resolutions, plus four SD analog capture channels.

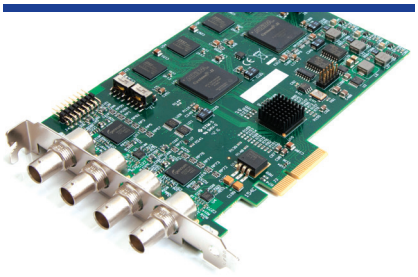
- Four channel SD video and one channel DVI, VGA, HD capture card
- Maximum data rate 650MB/s
- Maximum analog RGB capture resolution of 2048x1536 x 24bit
- Maximum DVI capture resolution of 1920x1200 x 24bit



VisionSD8

The VisionSD8, a stand alone PCIe x4 plug in card, delivers extreme performance with 480MB/s transfer bus bandwidth.

- Maximum video capture resolution 720x576
- Supports de-interlacing
- Maximum data rate 480MB/s
- Supports PAL, NTSC and SECAM in both composite and S-video input formats



VisionSDI2

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, broadcasting, machine vision and medical imagery.

- Dual channel PCIe 3G/HD/SD video capture card
- Four lane PCIe bus with maximum data rate of 650MB/s
- Supports all 3G/HD/SD video modes up to 1080p at 60fps

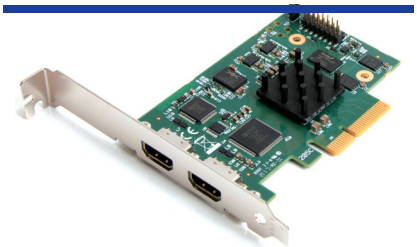
VisionLC Range

Managing to pack much of the same punch into these smaller form factor cards, Datapath's LC range are designed to work in appliances rather than VSN systems. For applications that do not require MultiStream clients, the Datapath LC range of capture cards are the perfect choice. Available in single channel HDMI, dual channel HDMI and single channel SDI, the VisionLC range is ideal for adding to a lecture capture or medical system.

VisionLC-HD

A small form factor, single channel HDMI1.4 capture card, ideal for use in lecture capture and medical environments.

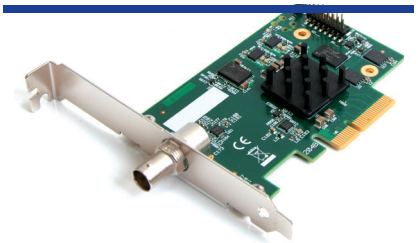
- Up to 297 MPixels/s capturing up to 3840x2160p at 30fps
- Colour space conversion to support output formats
- PCIe Gen 1 x 4 low profile



VisionLC-HD2

A small form factor, dual channel HDMI1.4 capture card. Channel one is capable of capturing 3840x2160 at 30fps whilst channel 2 can capture 1920x1080p at 60fps.

- PCIe gen 2 x 4 low profile
- Natively supports 32, 24, 16 and 12 bit YUV and RGB formats
- 1.6 GB/s total DMA bandwidth



VisionLC-SDI

A small form factor, single channel SDI capture card. This card supports onboard colour space conversion and scaling, whilst providing the ability to efficiently transfer the video signal in a suitable format for rendering or encoding applications.

- SD/HD/3G at 60fps
- 800 MB/s DMA bandwidth
- PCIe Gen 1 x 4 low profile

For more information on our wide range of capture cards, contact us on
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