

# VisionSC-UHD2

Dual HDMI 2.0 video  
capture card



## DESCRIPTION

AV integrators demand the highest resolution video offering both detail and colour accuracy when creating the most stunning visual displays. From command and control rooms to reception areas, collaboration environments and digital signage applications, the VisionSC-UHD2 ensures the very best quality and ultimate customer satisfaction.

Providing two HDMI 2.0 capture channels with HDCP 2.2 at 4K60p with full 4:4:4 colour sampling, the VisionSC-UHD2 compliments our hugely successful VisionSC capture card family and offers unparalleled performance in frame grabber technology.

## FEATURES

- Two independent HDMI 2.0 capture channels
- Eight lane PCIe Gen.3 interface, Net 6 GB/s total capture bandwidth
- 2 GB Frame Buffer Memory
- Full 10-bit processing pipeline
- Up to 8K by 8K resolutions
- Built for the highest density systems supporting multiple inputs
- Full support of the Vision Performance Feature set
- Datapath unified Windows® and Linux® driver

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

  
**DATAPATH**  
EXCELLENCE BY DESIGN

# Advanced capture technology

## VISION PERFORMANCE FEATURES

The VisionSC-UHD2 is supported by the Datapath Vision Performance Driver. Features include: Datapath LiveStream for a single line of capture latency, MultiStream for multiple capture instances, hardware timestamping, HDMI signal conditioning supporting longer cable runs, automatic fast & reliable mode detection, frame synchronised ganging of inputs (dual 4K into 8K x 2K), flexible onboard Colour Space Converter plus a whole lot more.

An advanced hardware scaling engine with polyphase multi-tap filter also provides superb antialiasing performance when downscaling and smoother transitions when upscaling.



## PROVEN AND RELIABLE SDK

Built for the future, Datapath continues to maintain and support its RGBEasy SDK for application developers as well as offering a Microsoft DirectShow interface based on the AV Stream framework. Inputs can be accessed by any DirectShow or Media Foundation applications including:

- Microsoft Media Encoder
- VLC
- Telestream WireCast
- vMix
- VidBlaster
- OBS Project
- Adobe Flash Media Encoder
- Dataton Watchout

A Video for Linux (V4L) driver package is also available for download.

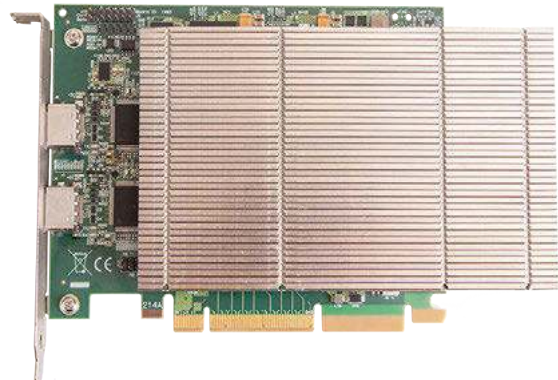
## COMPATIBILITY

The VisionSC-UHD2 is supported by the following operating systems: Linux, Windows® XP, Windows Vista, Windows Server 2003, Windows Server 2008, Windows 7, Windows 8/8.1 and Windows 10.

Datapath SDK is included for software developers.

## MODELS AVAILABLE

Order Code: VisionSC-UHD2  
Dual HDMI 2.0 capture card



## SPECIFICATION

### BOARD FORMAT

PCIe x8 plug-in card

### DIMENSIONS

110mm x 177mm (incl heat sync)

### CONNECTORS

Dual HDMI 2.0

### MAX CAPTURE RATE

600MHz TMDS Clock  
Max capture surface of 8k x 8k

### FRAME BUFFER

2GB

### INPUT MODE DETECTION

Automatic

### PIXEL TRANSFER FORMATS

R RGB10 (10-bit), 8-8-8 (24/32)  
5-6-5, 5-5-5, 8-bit mono  
Y410 (10-bit), 4:2:2, YUY2,  
UYVY, YVYU  
Planar Modes: NV12, YV12

### COLOUR SPACES

BT2020, BT709, BT601 with  
selectable limited and full range  
encoding

### UPDATE RATE

Captured frame rate will match  
the source providing PCIe  
bandwidth is not exceeded

### VIDEO STANDARD

HDMI 2.0, HDMI 1.4, HDMI 1.3

### POWER REQUIREMENTS

Max current at +3.3V - 1A  
Max current at +12V - 1.6A  
Max power ≈ 22W

### OPERATING TEMPERATURE

0 °C to 35 °C / 32 °F to 96 °F

### STORAGE TEMPERATURE

-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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