

VisionSC-S2

High Performance Capture Card



HIGH PERFORMANCE CAPTURE CARD

The VisionSC-S2 is a high-end dual channel SDVoE capture card. It is a PCI Express card that, as part of the VisionSC range, inherits all the standard Vision features such as hardware-based scaling, multi-client, and EDID management. Multiple cards can be combined with other Datapath capture and graphics cards as required to meet large-scale requirements.

FEATURES

- High performance capture card for SDVoE AV networks
- Dual channel 4K60 decoding
- Fully SDVoE compliant to ensure compatibility with other SDVoE applications
- Compatible with Datapath's range of capture cards & graphics cards
- Full SDK available

SDVOE TECHNOLOGY

SDVoE (Software-Defined Video over Ethernet) is a software-based AV-over-IP platform for distribution and control of AV content over ethernet and fiber networks. The VisionSC-S2 meets all SDVoE feature requirements:

- Zero-latency (under 100 microseconds / 1/150th of a video frame)
- Full stack, 7-layer solution – providing an approach to every layer of the OSI (Open Systems Interconnection) network model from physical infrastructure to AP
- Comprehensive API provides simple interface to control complex AV tasks such as video routing, scaling, aspect ratio management, video wall processing, image compositing, audio downmixing, etc.
- Fully uncompressed transmission for HD and 4K signals
- HDMI video transmission up to full 4K60
- Independent multi-channel audio routing

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


DATAPATH
EXCELLENCE BY DESIGN

Professional digital audio and video capture card

SPECIFICATION

BOARD FORMAT

PCIe x8 plug-in card

CONNECTORS

Dual SDVoE capture Channels

MAX CAPTURE RATE

600MHz TMD5 ClockMax capture surface of 8k x 8k*1

DIMENSIONS

111mm x 210mm (including active heatsink)

FRAME BUFFER

2GB

INPUT MODE DETECTION

Automatic

PIXEL TRANSFER FORMATS

RGB10: (10bit), 8-8-8 (24/32), 5-6-5, 5-5-5, 8-bit mono Y410 (10bit), 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

4096x2160, 60Hz formats including, 8-bit 4:4:4, 10-bit 4:2:2, 10-bit 4:2:0

OPERATING SYSTEM

Windows 8/10, Windows 7, Windows XP, Windows Server 2008, Windows Vista, Windows Server 2003

POWER REQUIREMENTS

Max current at +3.3V – 2.2A

Max current at +12V – 1.4A

Max power ≈ 24W

OPERATING TEMPRATURE

0 to 40 °C (32 to 104 °F)

STORAGE TEMPRATURE

-20 to 70 °C (-4 to 158 °F)

RELATIVE HUMIDITY

5% to 90% non-condensing

WARRANTY

3 years

Contact the Datapath team on +44 (0)1332 294 441 for more information.

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