

SVC-2

2nd generation streaming video card



Barco's second-generation integrated streaming video card (SVC-2) offers unmatched performance for the simultaneous processing of large amounts of streaming video signals in real-time with minimal latency. SVC-2 can decode 4 simultaneous 4CIF MPEG-4 Part 10 (H.264, AVC) streams per card. Through its innovative 4-DSP architecture (one DSP per stream), SVC-2 offers high reliability. As each DSP decodes a single stream, corrupt streams do not influence the decoding of other streams.

Increased flexibility

SVC-2 offers enhanced flexibility as it allows graceful technological migration. SVC-2 unifies different video-over-IP networks by supporting multiple compression algorithms. The second-generation universal decoder supports ISO 144496-2 and ISO 144496-10 MPEG-4, ITU-T H.263, ISO 11172 MPEG-2, ISO 10918 MJPEG and specific wavelet streams. With SVC-2 even non-standard compression techniques and stream transport can be ported to the decoder platform. Additionally, Barco ensures interoperability after a period of testing with full co-operation from the selected manufacturers. Please see the specifications section overleaf for an updated interoperability list. Support for MJPEG and specific encoders will be added via firmware updates.

Main benefits:

- Decodes 4 simultaneous MPEG-4 Part 10 (H.264) streams per card
- Unmatched processing performance for large amounts of video signals
- Increased reliability: 4 DSPs (one per stream) - no influence of one corrupt stream on the other
- Enhanced flexibility: decodes up to 4 different compression formats on one card

Available on all hardware platforms

Barco's integrated streaming video solutions, centered on the universal decoder card, can be used within the modular chassis architecture of Barco's family of controllers alongside other interface cards (i.e. composite analog, RGB, DVI, SDI, HD-SDI). This allows for simultaneous deployment of multiple video technologies and protects the investment on the display walls by providing an easy migration from analog or hybrid video systems to a completely digital solution.

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Technical specifications SVC-2

General specifications

| | |
|-----------------------|--|
| • Ethernet | Dual RJ-45 10/100/1000 Base-T (for redundancy) Autosensing, Half/Full Duplex |
| • Protocols supported | TCP, UDP, IP, IGMP, RTP/RTCP, RTSP |
| • Maximum capacity | 4 channels simultaneously per card |
| • Addressing | One IP address (DHCP client or fixed) |
| • Channel | Differentiation by address, port and PID |

Streaming video specifications:

MPEG-2 compression specifications

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|--------------------|---|
| • Standard | ISO 13818, DVB (ETR154, SPTS) |
| • Profile | MP@ML (4:2:0) |
| • Resolution range | QCIF, CIF, Full D1 |
| • Multiplexing | Elementary streams, program streams, transport streams |
| • GOP structures | Completely flexible user defined (based on encoder flexibility) |
| • Decoding delay | 220 ms typical on TransForm A |
| • Frame rate | PAL (25 fps) or NTSC (30 fps) |

MPEG-4 and H.263 compression specifications

| | |
|--------------------|---|
| • Standards | ISO 14496-2, ISO 14496-10 (H.264, AVC), ITU-T H.263 |
| • Profiles | ISO 14496-2 Simple Profile and Advanced Simple Profile, ISO 14496-10 Main Profile |
| • Capacity | 4 channels per card |
| • Resolution range | QCIF to 4CIF |
| • Decoding delay | 220 ms typical on TransForm A |
| • Frame rate | 1 to 30 frames per second |

MJPEG compression specifications

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| | Capable of decoding standard ISO 10918 JPEG frames, interoperability with MJPEG must be established per manufacturer as there is no standard definition for the inter JPEG frame multiplexing |
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Audio metering*

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|------------------|--|
| • Audio standard | ISO/IEC 11172-3: MPEG-1 Layer 2 |
| • Audio alarms | Audio loss, audio overlevel, audio antiphase, audio lock |

Environmental and regulatory approvals

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|---------------------------------|---------------------|
| • Operational temperature range | -10° to 50°C |
| • EMI approvals | EN55022 or CISPR 22 |

Interoperability**

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|--|---------------------|------------------|---------------|-----------------|
| | ACTi | MPEG-4 | IndigoVision | MPEG-4 |
| | AXIS | MPEG-4, MJPEG | LANACCESS | MPEG-2 4 |
| | Ateme | MPEG-4 | Lenel | MPEG-2 4, MJPEG |
| | Barco TransForm SCN | | Mavix | MPEG-2 4 |
| | BOSCH | MPEG-2 4 | Mobotix | MxPEG |
| | Cieffe | MPEG-4 | Moxa | MPEG-4 |
| | Cisco | MPEG-2 4 | NiceVision | MPEG-4 |
| | COE X-Net | MPEG-4 | Optelecom-NKF | MPEG-2 4 |
| | Coretec | MPEG-2 | Optibase | MPEG-2 |
| | Cornet | MPEG-2 4 | Path 1 | ASI to IP |
| | Dallmeier | MPEG-4 | Pelco | MPEG-2 4 |
| | DVTel | MPEG-4 | OTN Systems | MPEG-2 4, MJPEG |
| | Exterity | MPEG-2 | Sony | MPEG-4, MJPEG |
| | GE Security | MPEG-4, Wavelets | Tandberg | MPEG-2 4 |
| | HaiVision | MPEG-2 | Teleste | MPEG-2 4 |
| | Harmonic | MPEG-4 | Telindus | MPEG-2 4 |
| | HiTron | MPEG-4 | VBrick | MPEG-2 4 |
| | iCanTek | MPEG-4 | Verint | MPEG-4 (ISO) |
| | iMpath | MPEG-2 | Vorx | MPEG-2 4 |

* Audio metering is only available on the Hydra platform.

** Interoperability tested before December, 2008. MPEG-4 support includes MPEG-4 Part 10 (H.264) where applicable. Please note that availability, as indicated in this document, of product features and/or product functionality is current at the time of release of this document and may be subject to change without prior notice. For the most up to date information, please check the Interoperability List on www.barco.com/controlrooms/en/Products/product.asp?GenNr=1840. Any encoder manufacturer who wishes to join the interoperability test forum please contact us as per our contact information below.

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Barco is an ISO 9001 registered company.
The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.
The latest version of this product sheet can be found on www.barco.com

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