

Streaming video card



The BARCO STREAMING VIDEO CARD is the first hardware decoder designed to universally decode digital streaming video input as well as being integrated into a visualization solution. Its design offers unparalleled capacity in processing large amounts of streaming video signals simultaneously in real time with minimal latency.

Universal and available on all platforms

Universal decoder

Barco has developed a universal decoder solution that supports multi-vendor and multi-compression standards digital streaming video simultaneously within the controller with the STREAMING VIDEO CARD. The new universal decoder from Barco supports ISO 11172 for MPEG-1, ISO 13818 for MPEG-2, ISO 144496-2 for MPEG-4 and various MJPEG streams. Barco's universal decoder can support JPEG decoding as per ISO 10918. With the universal decoder, even non-standard compression techniques and stream transport can be ported to the decoder platform. Barco will ensure interoperability after a period of testing with full co-operation from the selected manufacturers. The current interoperability list is provided in the specifications section on the back.

Available on all hardware platforms

Barco's integrated streaming video solutions are centered on a universal decoder card that is usable within the modular chassis architecture of the TRANSFORM Series, Barco's family of controllers (the TRANSFORM A and HYDRA). This means that the decoder card may be used alongside other interface cards (i.e. composite analog, SDI, HD-SDI) within any of Barco's family of controllers. 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 based video systems to a complete end-to-end digital solution.

BARCO

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Technical specifications Streaming video card

General specifications

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

Streaming video specifications

MPEG-2 compression specifications	
• Standard	ISO 13818, DVB (ETR154, SPTS, MPTS)
• Profile	MP@ML (4:2:0)
• Resolution range	QCIF, CIF, Full D1
• Multiplexing	Elementary streams, program streams, transport streams, MPTS
• GOP structures	Completely flexible user defined (based on encoder flexibility)
• Decoding delay	220 ms
• Frame rate	PAL (25 fps) or NTSC (30 fps)
• Transmission rate	Up to 15 Mbps per channel (44 Mbps per card in total)
MPEG-4 compression specifications	
• Standard	ISO 14496-2
• Profile	Simple Profile and Advanced Simple Profile
• Resolution range	QCIF to 4CIF
• Decoding delay	120 ms
• Frame rate	1 to 30 frames per second
• Transmission rate	Up to 8 Mbps per channel (32 Mbps per card in total)
MJPEG compression specifications	
	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

Environmental and regulatory approvals

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

Interoperability*

	AXIS MJPEG AXIS MPEG-4 (Q4 2006) Barco TransForm SCN Bosch MPEG-2 Bosch MPEG-4 Cieffe MPEG-4 Coretec MPEG-2 Cornet MPEG-2 Cornet MPEG-4 DVTeL MPEG-4 Fast Video Security MPEG-2 iMPath MPEG-2 IndigoVision MPEG-4 LANACCESS MPEG-2 LANACCESS MPEG-4 LENEL MPEG-2 LENEL MPEG-4 Mavix MPEG-2 Mavix MPEG-4 Mobotix MxPEG (Q3 2006)	NiceVision MPEG-4 Optelecom-NKF MPEG-2 Optibase MPEG-2 Path 1 MPEG-2 Pelco MPEG-2 (PelcoNet) Siemens OTN MPEG-2 SkyStream MPEG-2 (Q3 2006) Sony MPEG-4 (Q4 2006) Sony MJPEG (Q4 2006) Tandberg MPEG-2 Teleste MPEG-2 Teleste MPEG-4 Telindus MPEG-2 VBrick MPEG-2 VBrick MPEG-4 Verint MPEG-4 ISO Visiowave Wavelets Vorx MPEG-2 Vorx MPEG-4
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* Interoperability tested before April 11, 2006. Please note that the interoperability list is subject to change without notice. For the most up to date information, please check the Interoperability List on www.barcocontrolrooms.com/en/technologies. Any encoder manufacturer who wishes to join the interoperability test forum please contact us as per our contact information below.

Barco Control Rooms - Belgium
 Noordlaan 5, 8520 Kuurne
 Phone (32) (56) 36-8211
 E-mail sales.controlrooms@barco.com

Germany Phone (49) (721) 6201-0
 USA Phone (1) (678) 475-8000
 Brazil Phone (55) (11) 3842-1656
 Japan Phone (81) (3) 5762-8720
 Hong Kong Phone (852) 2397-0752

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Barco Control Rooms 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.barcocontrolrooms.com