

NGS-D200 Pro

Compact, 4+ megapixel encoder & decoder



The Barco NGS-D200 Pro encoder and decoder provides the highest quality visual experience for collaborators. This encoder/decoder supports over 4 megapixel video and graphics sources with audio over any IP network environment.

Using the high performance Video-to-Data (V2D) codec, the NGS-D200 accurately captures and streams content from point-to-multipoint with low latency, thus increasing communication and cohesion among global teams. Integrated keyboard and mouse control with encoding and decoding functionality in a single unit creates a seamless environment for application sharing, simulation and training needs.

Key features

- High resolution support: Dual link DVI-I input capable of streaming video and graphics of over 4 million pixels over any network
- Visually lossless codec: Compress HD high resolution graphics ensuring pixel-perfect delivery regardless of available bandwidth, while using 4:4:4 color space conversion (*)
- Application programming interface (API): Allow integration of the NGS-D200 and recording/playback functionality in the workflow via the BCS management system API
- Passive video loop-through: Ensures a reliable video source without power
- Redundant LAN: Failover protection to maintain network connectivity with zero downtime
- Configurable modes: Switch between encoding and decoding in a single unit

(*)To preserve pixel detail, the codec will reduce the frame rate when the bandwidth limit is reached

Product specifications

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General specifications

Number of channels	1 video channel
USB ports	2xType A for KB/M; 1xType B towards host PC
Audio inputs & outputs	3.5 mm locking stereo jack audio line in-out (rear), 3.5 mm mic & headphone (front)
Audio channels	Stereo/mono
Audio format	Pulse code modulation (PCM)
Sync	Hardwired end-to-end; Timestamp NTP
Network	2x1000 Base T RJ 45 (redundant LAN)
Networking protocol	IPv4; Unicast-multicast (IGMP version 2)
Device configuration storage	Removable SD Card
QoS/error concealment	Advanced mechanisms to cope with packet loss, network latency, and jitter that are fully configurable on the fly
Management Interface	Managed mode – Admin/Client interface, Web Endpoint Controller Standalone mode – Web interface
Power supply	External, locking adapter 110/220 V AC, 60/50 Hz, 40W (136 BTU's/hr), auto switchable
Rack mount	Optional rack mount equipment available
Dimensions WxDxH	186.9mm x 121.92mm x 41.15mm / 7.37" x 4.8" x 1.62"
Weight	1.6 kg / 3.6 lbs
Dimensions packaged (W x H x D)	382mm x 273mm x 85mm 15,04" x 10,75" x 3,35"
Packaged weight	2.0 kg / 4.40 lbs
Operating temperature range	0-40°C, 32-104F
Video	Tx – Passive loopback of local input signal Rx – Passive loopback of local input signal, signal from remote source, PIP (with scaling, alpha and chroma control)
Audio	Tx/Rx – Local audio input; signal from remote source; mix of both with mixing level control
Codec	Proprietary V2D (Video-to-Data) with 4:4:4 and 4:2:2 color sampling and real-time compression tuning Software decodable
Remote keyboard and mouse	Secure remote keyboard and mouse HID support over IP Supported layouts: <ul style="list-style-type: none">■ QWERTY (US, UK, NL, IT, SP, PO)■ AZERTY (FR, BE-comma, BE-dot)■ QWERTZ (DE-T1)■ Chinese Simplified■ Russian
Video board features	On-the-fly switching between Tx & Rx
Certification and compliance	Safety: UL/CSA/EN/IEC 60950-1 CB report EMC: CE, FCC Part 15 Class A, CISPR 22, ICES-003, CCC
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Video inputs, outputs per channel	Dual-link DVI-I in / Dual-link DVI-D out
Resolution range	800x600 (min) to 2560x1600@60Hz or 3840x2160@30Hz (max)
Encode rate (resolution dependent)	60fps: 800x600, 1280x720, 1280x720, 1280x1024, 1600x1200, 1920x1080, 1920x1200 30fps: 2560x1600 15fps: 3840x2160
Pixel clock	DVI – 330 MHz Analog – 170MHz
3D capability	No

Last updated: 08 Jul 2024

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