

# NGS-D200 Lite

Compact, Full HD encoder & decoder



The Barco NGS-D200 Lite encoder and decoder provides the highest quality visual experience for collaborators. This encoder/decoder supports up to Full HD (1920 x 1200 @ 60fps) 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: Single DVI-I input capable of streaming Full HD video and graphics over any network
- Visually lossless codec: Compress high resolution graphics ensuring pixel-perfect delivery regardless of available bandwidth, while using 4:4:4 color space conversion (To preserve pixel detail, the codec will reduce the frame rate when the bandwidth limit is reached)
- 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

**PRODUCT SPECIFICATIONS****NGS-D200 LITE**

| <b>General specifications</b>      |   |
|------------------------------------|---|
| 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<br>Standalone mode – Web interface   |
| Power supply                       | External, locking adapter<br>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<br>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<br>Software decodable  |
| Remote keyboard and mouse          | Secure remote keyboard and mouse HID support over IP Supported layouts: <ul style="list-style-type: none"> <li>■ QWERTY (US, UK, NL, IT, SP, PO)</li> <li>■ AZERTY (FR, BE-comma, BE-dot)</li> <li>■ QWERTZ (DE-T1)</li> <li>■ Chinese Simplified</li> <li>■ Russian</li> </ul> |
| Video board features               | On-the-fly switching between Tx & Rx  |
| Certification and compliance       | Safety: UL/CSA/EN/IEC 60950-1 CB report<br>EMC: CE, FCC Part 15 Class A, CISPR 22, ICES-003, CCC  |
| <b>NGS-D200 Lite</b>               |   |
| Video inputs, outputs per channel  | Single-link DVI-I in / Single-link DVI-D out  |
| Resolution range                   | 800x600 (min) to 1920x1200 (max)  |
| Encode rate (resolution dependent) | 60fps: 800x600, 1280x720, 1280x720, 1280x1024, 1600x1200, 1920x1080, 1920x1200  |
| Pixel clock                        | DVI – 165 MHz<br>Analog – 170MHz  |
| 3D capability                      | No  |

Last updated: 02 Feb 2022

Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.