

MNA-420 ENC -H

HD AV-to-IP adapter for the OR and hybrid OR with HDMI™ technology



- **AV-to-IP conversion**
- **2 x FHD resolution**
- **Medical-grade**
- **Established 3rd generation technology**

Adapter for the operating room

The MNA-420 ENC -H with HDMI™ technology converts HDMI 2.0 video signals to Nexxis RAW IP packets. Other non-video signals such as audio and USB for keyboard/mouse are also supported. End-to-end video latency is amazingly low and is guaranteed not to exceed a single frame.

Capabilities

The MNA-420 adapters are part of Barco's Nexxis solution, which provides users with uncompromised networked visualization for the digital operating room. The compact Nexxis AV-to-IP adapters offer simplicity and flexibility while maintaining the highest possible performance standards and fitness for use in demanding medical environments.

As a third generation device, the MNA-420 ENC -H with HDMI™ technology provides the full richness of the established Nexxis platform while:

- increasing future scalability
- improving ease of installation
- adding increased security performance
- reducing ecological footprint

Product specificaties

MNA-420 ENC -H

General specifications

Videoconversie	Converts Digital video signals to uncompressed IP streams
Verwerking	Up to 1920x1200@60Hz. Maximum 2 Mpx/s per input
Kleurdiepte	RGB 8-bit, YCbCr 4:4:4 8bit or YCbCr 4:2:2 10-bit
3D-technologie	The following video formats are supported: <ul style="list-style-type: none">■ 1920x1080@60Hz Line-interleaved■ Dualstream 1920x1080@60Hz (using both input channels)
Latentie	Subframe
Beveiliging	AES 128 encryption of all video, data and control signals
Video-ingang	2xHDMI 1.4 lockable connector
Netwerkuitvoer	2x HD uncompressed IP stream over a single optical connection
IP-connectiviteit	1x 10GbE Fiber Optic Interface with SFP+ module
IP-normen	Zeroconf, IPv4, IGMP, DHCP, RTP, RTCP, 802.1q, AES 128b, HTTP(s)
USB	1x micro-USB type B and 1x USB Type A
Audio	Stereo line in and Headset/Stereo line out 15mm length compatible 3.5mm TRRS jack
GPIO	1x GPI + 1x camera trigger via 15mm length compatible 3.5mm TRRS jack
Nexxis-integratie	Fully integrated in the Nexxis solution, compatible with MNA-1x0 and MNA-240 devices
Voeding	External 12V Medical Approved PSU, 100-240VAC 50-60Hz 60W with lockable connector at DC side
Energieverbruik	Max: 25W Typical: 15W
Grootte	35 mm H x 103 mm W x 131 mm D 1.4" H x 4.1" W x 5.2" D (+/-2 mm / 0.1")
Gewicht	0.4 kg (0.88 lbs)
Temperatuur	5°C to 40°C (41°F to 104°F)
Vochtigheid	Maximum 85%
Opslag	Storage temperature: -20°C to 60°C (-4°F to 140°F) Storage Relative Humidity: 10% to 93%
Akoestische ruis	Typical 32dBA at 20°C at 1m
Montage	Versatile mounting bracket included
Certificeringen	-UL 60601-1 -CE EN60601-1 ed 3 -c-UL CSA C22.2 No601.1
Standaarden	Medical Equipment: -IEC 60601-1:2005 + Am1:2012 -IEC 60601-1-2: 2014 (ed4) -ANSI/AAMI ES 60601-1:2005 + R1:2012 -CAN/CSA-C22.2 No.60601-1:2014 -EN 60601-1:2006 + A11:2011 + A1:2013 + A12:2014 -EN 60601-1-2:2015 (ed4) -FCC class B, ICES-001 Level B ITE Equipment: -IEC 60950-1:2005 + Am1:2009 + Am2:2013

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