

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 specifications

MNA-420 ENC -H

General specifications

Video conversion	Converts Digital video signals to uncompressed IP streams
Processing	1920x1200@60Hz per input channel
Color depth	RGB 8-bit, YCbCr 4:4:4 8bit or YCbCr 4:2:2 10-bit
3D technology	The following video formats are supported: <ul style="list-style-type: none">■ 1920x1080@60Hz Line-interleaved■ Dualstream 1920x1080@60Hz (using both input channels)
Latency	Subframe
Security	AES 128 encryption of all video, data and control signals
Video Input	2xHDMI 1.4 lockable connector
Network output	2x HD uncompressed IP stream over a single optical connection
IP connectivity	1x 10GbE Fiber Optic Interface with SFP+ module
IP standards	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 integration	Fully integrated in the Nexxis solution, compatible with MNA-1x0 and MNA-240 devices
PSU	External 12V Medical Approved PSU, 100-240VAC 50-60Hz 60W with lockable connector at DC side
Power consumption	Maximum: 25W Typical: 15W
Size	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")
Weight	0.4 kg (0.88 lbs)
Temperature	5°C to 40°C (41°F to 104°F)
Humidity	Maximum 85%
Storage	Storage temperature: -20°C to 60°C (-4°F to 140°F) Storage Relative Humidity: 10% to 93%
Acoustic Noise	Typical 32dBA at 20°C at 1m
Mounting	Versatile mounting bracket included
Certifications	<ul style="list-style-type: none">■ CB (IEC 60601-1) Informative report■ CB (IEC 60950-1)■ cRU, RU (cRUus)■ Demko■ CE medical device class I■ UKCA■ BIS Registration, IS 13252 (part 1)■ KC■ BSMI■ RCM■ EAC
Standards	Medical Equipment: <ul style="list-style-type: none">■ IEC 60601-1:2005 + Am1:2012■ IEC 60601-1-6:2010 + Am1:2013■ IEC 60601-1-2:2014 (ed4)■ ANSI/AAMI ES 60601-1: A1:2012 + C1:2009/(R)2012 + A2:2010/(R)2012■ CAN/CSA-C22.2 No.60601-1:14■ EN 60601-1:2006 + A1:2013 + A12:2014■ EN 60601-1-6:2010 + A1:2015■ EN 60601-1-2:2015 (ed4)■ FCC class B■ ICES-001 Level B ITE Equipment: <ul style="list-style-type: none">■ IEC 60950-1:2005 + Am1:2009 + Am2:2013■ EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011■ IS 13252

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