

MNA-440 ENC HDMI

4K AV-to-IP adapter for the OR and hybrid OR



- AV-to-IP conversion
- Up to 4K resolution
- Medical-grade
- Established 3rd generation technology

Adapter for the operating room

The MNA-440 ENC HDMI 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. The video streams that are distributed over the Nexxis network can go up to a resolution of 4K.

Capabilities

The MNA-440 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-440 ENC HDMI 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-440 ENC HDMI**

Video conversion	Converts Digital video signals to uncompressed IP streams
Processing	Up to 4096x2160@60Hz; Max 8 Mpxl/s on one input or 2 Mpxl/s on two inputs each
Color depth	RGB 8-bit, YCbCr 4:4:4 8bit or YCbCr 4:2:2 10-bit
Latency	Subframe
Security	AES 128 encryption of all video, data & control signals
Video Input	Interface: 2xHDMI 2.0 (lockable connector)
Network output	1x 4K/UHD uncompressed IP stream & 1x downscaled FHD IP stream of native 4K/UHD source Or 2x HD uncompressed IP stream
IP connectivity	2x 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 & 1x USB Type A
Audio	Line-in & line-out/headset 3.5mm connector
GPIO	Separate 3.5mm connector
Nexxis integration	Fully integrated in the Nexxis solution, compatible with MNA-1x0 and MNA-240 devices
PSU	External 12V Medical Approved PSU, 100-240VAC 65W, external locking
Power consumption	Max: 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" (+/-2 mm / 0.1")
Weight	0,4 kg (0.88 lbs)
Temperature	Operating: 5°C to 40°C (41°F to 104°F)
Humidity	Max 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 60601-1 -CE EN60601-1 ed 3 -c-UL CSA C22.2 No601.1
Standards	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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Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.