

# MNA-420 DEC -H

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



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

## **Adapter for the operating room**

The MNA-420 DEC -H with HDMI™ technology converts uncompressed IP video streams to HDMI 1.4 video. 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 DEC -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 DEC -H

### Algemene specificaties

Videoconversie	Converts uncompressed IP-streams into Digital video signals
Verwerken	1920x1200p60 on each of the two output channels
Kleurdiepte	RGB24 8-bit
Latentie	When genlocked, the end-to-end latency is subframe
Beveiliging	Decryption of AES 128 encrypted video, data & control signals
Encodersysteem	N/A
Video-uitvoer	2x HDMI 2.0 lockable connector
Video-ingang	N/A
Netwerkuitvoer	N/A
IP-connectiviteit	1x 10GbE Fiber Optic Interface with SFP+ module
IP-standaarden	Zeroconf, IPv4, IGMP, DHCP, sRTP, sRTCP, 802.1q, AES 128b, HTTP(s)
USB	2x USB Type A
Audio	Stereo line in and Headset/Stereo line out 15mm length compatible 3.5mm TRRS jack
Naleving	N/A
GPIO	2x GPI + 1x GPO via 15mm length compatible 3.5mm TRRS jack Camera trigger is possible via stereo line in (1x) and GPIO (2x) connector
Nexxis-integratie	Supported from Nexxis OR 1.14 onwards, compatible with MNA-1x0, MNA-240 and MNA-4x0 devices
NexxisPlus-integratie	N/A
PSU	External 12Vdc Medical Approved PSU, 100-240VAC 50-60Hz 60W with lockable connector at DC side
Energieverbruik	Maximum: 25W Typical: 17W
Grootte	35 mm H x 103 mm W x 131 mm   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%
Hoogte	700 hPa
Opslagcondities	Storage temperature: -20°C to 60°C (-4°F to 140°F) Storage relative humidity: 10% to 93% Storage altitude: 500 hPa
Akoestisch geluidsniveau	Typical 32dBA at 20°C at 1m
Montage	Versatile mounting bracket included
Certificeringen	-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)
Normen	Medical Equipment: -IEC 60601-1:2005 + A1:2012 + A2:2020 -IEC 60601-1-6:2010 + A1:2013 + A2:2020 -IEC 60601-1-2: 2014+A1:2020 (Ed.4.1) -ANSI/AAMI ES 60601-1:2005 + A1:2012 + A2:2021 -CAN/CSA-C22.2 No.60601-1:08 + A1: 14 (Reaffirmed 2022) -EN 60601-1:2006 + A1:2013 + A12:2014 + A2:2021 -EN 60601-1-6:2010 + A1:2015 + A2:2021 -EN 60601-1-2:2015 + A1:2021 (Ed.4.1) -FCC class B -ICES-001 Level B ITE Equipment: -IEC 62368-1:2018 -EN IEC 62368-1:2020 + A11:2020 -IS 13252 (Part1): 2010
3D-video-ondersteuning	Show one view of the 3D video flow (left eye) on a 2D display
Streamback	N/A

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