

# MNA-420 ENC SDI

HD AV-to-IP adapter for the OR and hybrid OR



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

## Adapter for the operating room

The MNA-420 ENC SDI converts 2 3GSDI 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 SDI provides the full richness of the established Nexxis platform while:

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

## TECHNISCHE DATEN

## MNA-420 ENC SDI

Videokonvertierung	Converts Digital video signals to uncompressed IP streams
Verarbeitung	1920x1080@60Hz on each of the two 3G-SDI input channels
Farbtiefe	YCbCr 4:2:2 10-bit
3D-Technologie	Folgende Videoformate werden unterstützt: <ul style="list-style-type: none"><li>■ 1920x1080p60Hz Line-Interleaved</li><li>■ 1920x1080i60Hz Line-Interleaved Level B (vpid 0x8C)</li><li>■ Dual-Stream 1920x1080p60Hz (unter Verwendung der ersten zwei SDI-Eingangskanäle)</li></ul>
Latenz	Subframe
Sicherheit	AES 128 encryption of all video, data and control signals
Videoeingang	2x 3G-SDI Standard BNC Anschluss
Netzwerk-Ausgang	2x HD uncompressed IP stream
IP-Verbindungsmöglichkeiten	1x 10GbE Fiber Optic Interface with SFP+ module
IP-Standards	Zeroconf, IPv4, IGMP, DHCP, RTP, RTCP, 802.1q, AES 128b, HTTP(s)
USB	1x USB Type A
Audio	Headset/Stereo line out 15mm length compatible 3.5mm TRRS jack
Generischer paralleler E/A	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, MNA-240 and MNA-4x0 devices
PSU	External 12V Medical Approved PSU, 100-240VAC 50-60Hz 60W with lockable connector at DC side
Stromverbrauch	Maximum: 20 W Typisch: 8,4 W
Größe	35 mm H x 103 mm B x 131 mm T   1,4" H x 4,1" B x 5,2" T (+/-2 mm / 0,1")
Gewicht	0,4 kg (0,88 lbs)
Temperatur	5°C to 40°C (41°F to 104°F)
Luftfeuchtigkeit	Maximum 85 %
Lagerung	Storage temperature: -20°C to 60°C (-4°F to 140°F) Storage Relative Humidity: 10% to 93%
Geräuschpegel	Typical 32dBA at 20°C at 1m
Montage	Versatile mounting bracket included
Zertifizierungen	<ul style="list-style-type: none"><li>■ CB (IEC 60601-1)</li><li>■ CB (IEC 60950-1)</li><li>■ cUL, UL (cULus)</li><li>■ Demko</li><li>■ CE medical device class I</li><li>■ BIS Registration, IS 13252 (part 1)</li></ul>
Standards	Medical Equipment: <ul style="list-style-type: none"><li>■ IEC 60601-1:2005 + Am1:2012</li><li>■ IEC 60601-1-6:2010 + Am1:2013</li><li>■ IEC 60601-1-2:2014 (ed4)</li><li>■ ANSI/AAMI ES 60601-1: A1:2012 + C1:2009/(R)2012 + A2:2010/(R)2012</li><li>■ CAN/CSA-C22.2 No.60601-1:14</li><li>■ EN 60601-1:2006 + A1:2013 + A12:2014</li><li>■ EN 60601-1-6:2010 + A1:2015</li><li>■ EN 60601-1-2:2015 (ed4)</li><li>■ FCC class B</li><li>■ ICES-001 Level B</li></ul> ITE Equipment: <ul style="list-style-type: none"><li>■ IEC 60950-1:2005 + Am1:2009 + Am2:2013</li><li>■ EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011</li><li>■ IS 13252</li></ul>

Generiert am: 16 Jun 2022

Die angegebenen Informationen und Daten sind typisch für das beschriebene Gerät. Jede Spezifikation kann sich aber ohne vorherige Ankündigung ändern. Die aktuelle Version dieser Broschüre finden Sie unter [www.barco.com](http://www.barco.com).