

# MNA-440 ENC SDI

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 SDI converts 2x 3GSDI or 1x 12GSDI or 1x QUAD SDI 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 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

**TECHNICAL SPECIFICATIONS****MNA-440 ENC SDI**

Video conversion	Converts Digital video signals to uncompressed IP streams
Processing	Up to 4096x2160@60Hz
Color depth	YCbCr 4:2:2 10-bit
Latency	Subframe
Security	AES 128 encryption of all video, data & control signals
Video Input	Interface: 4x SDI (lockable connectors) supporting 3G SDI on SDI In 1&2, 12GSDI on SDI In 1 and QUAD 3G-SDI via SDI In 1, 2, 3 & 4
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 10GE Fiber Optic Interface with SFP+ connector 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 via 3.5mm connector
GPIO	1x GPI & 1x GPO & 1x camera trigger via 3.5mm connector
Nexxis integration	Fully integrated in the Nexxis solution, compatible with MNA-1x0, MNA-240 and MNA-4x0 devices
PSU	External 12Vdc Medical Approved PSU, 100-240VAC 60W, external locking
Power consumption	Max: 25W max Typical: 13,6W
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) Non-operating: -20°C to 60°C (-4°F to 140°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	-ANSI/AAMI ES 60601--1 :2005 + A1 :2012 -CE EN60601--1 ed 3.1 -CAN/CSA C22.2 No601.1 :14 -IEC 60601-1:2005 + A1:2012
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

Generado en: 26 Jul 2019

Las especificaciones técnicas pueden estar sujetas a cambios sin previo aviso. Consulte [www.barco.com](http://www.barco.com) para obtener la información más actual.