

# MNA-240 DP 1.2 SST Encoder

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



- AV-to-IP conversion
- Up to 4K resolution
- Medical-grade

## Adapter for the operating room

The MNA-240 DP 1.2 encoder converts DisplayPort 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 short 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

- AV-to-IP conversion at the source
- Seamless integration in the Nexxis environment
- Support for non-video traffic (e.g. keyboard, mouse and audio) via USB and audio connections
- Easy integration via central API provided by the Nexxis OR Management Suite NMS
- Streaming of 4K and downscaled FHD video onto the network

The MNA-240 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.

## Product specifications

## MNA-240 DP 1.2 SST ENCODER

### General specifications

Video conversion	Converts Digital video signals to uncompressed IP streams
Processing	Up to 4096x2160@60Hz
Color depth	8 bits / color
Latency	Subframe
Security	AES 128 encryption of all video, data & control signals
Video Input	Interface: 1x DP 1.2 SST
Network output	1X 4K/UHD uncompressed IP stream 1x downscaled FHD IP stream of native 4K/UHD source
IP connectivity	2x 10 GbE Fiber Optic Interface with SFP+ module
IP standards	Zeroconf, IPv4, IGMP, DHCP, RTP, RTCP, 802.1q, AES 128b, HTTP(s)
USB	1x micro-USB 2.0 + 3x USB 2.0 type-A
Audio	Line-in, line-out, headphones-out and mic-in (mono) 3.5mm connector
Nexxis integration	Supported from Nexxis 1.08 onwards
PSU	External 12V Medical Approved PSU, 100-240VAC 60W, external locking
Power consumption	< 35W
Size	38 mm H x 170 mm W x 170 mm D   1.5" H x 6.7" W x 6.7" D (+/-2mm / 0.1")
Weight	1±0.01kg (2.20lbs)
Temperature	Operating: 0°C to 40°C (32°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%
Sound level	Typical 32dBA at 20°C at 1m
Mounting	Optional VESA adapter plate or 1U rack mount for 2 devices
Certifications	<ul style="list-style-type: none"><li>■ CB (IEC 60601-1) Informative report</li><li>■ CB (IEC 60950-1)</li><li>■ cRU, RU (cRUUs)</li><li>■ Demko</li><li>■ CE medical device class I</li><li>■ UKCA</li><li>■ BIS Registration, IS 13252 (part 1)</li><li>■ KC</li><li>■ BSMI</li><li>■ RCM</li><li>■ EAC</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&gt;</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> <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>

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