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.

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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	- 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) - KC - BSMI - RCM - EAC
Standards	Medical Equipment: - IEC 60601-1:2005 + Am1:2012 - IEC 60601-1-6:2010 + Am1:2013> - IEC 60601-1-2:2014 (ed4) - ANSI/AAMI ES 60601-1: A1:2012 + C1:2009/(R)2012 + A2:2010/(R)2012 - CAN/CSA-C22.2 No.60601-1:14 - EN 60601-1:2006 + A1:2013 + A12:2014 - EN 60601-1-6:2010 + A1:2015 - EN 60601-1-2:2015 (ed4) - FCC class B - ICES-001 Level B - IEC 60950-1:2005 + Am1:2009 + Am2:2013 - EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 - IS 13252

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