

# 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@60
Color depth	RGB24 8-bit; YCbCr 4:2:0 (8-bit & 10-bit) ; YCbCr 4:2:2 (8-bit & 10-bit); YCbCr 4:4:4 (8-bit)
Latency	Subframe
Security	AES 128 encryption of all video, data & control signals
Encoder system	N/A
Video Output	N/A
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 10GbE 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
USB Power Output	Max. 5 V / 500 mA (2.5 W) per USB 2.0 Type-A port
Audio	Line-in, line-out, headphones-out and mic-in (mono) 3.5mm connector
Compliance	N/A
GPIO	Trigger via any audio connector via 15mm length compatible 3.5mm TRRS jack
Nexxis Integration	Supported from Nexxis R1.08 onwards
NexxisPlus Integration	N/A
PSU	External 12V Medical Approved PSU, 100-240VAC 60W, external locking
Power Consumption	< 35 W
Size	38 mm H x 170 mm W x 170 mm D   1.5" H x 6.7" W x 6.7" (+/-2mm / 0.1")
Weight	1±0.01kg (2.20lbs)
Temperature	Operating: 0°C to 40°C (32°F to 104°F)
Humidity	Max 85%
Altitude	700 hPa
Storage conditions	Storage temperature: -20°C to 60°C (-4°F to 140°F) Storage relative humidity: 10% to 93% Storage altitude: 500 hPa
Acoustic noise 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) -CB (IEC 62368-1) -cRU, RU (cRUus) -Demko -CE medical device class I -UKCA -BIS Registration, IS 13252 (part 1)
Standards	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) -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 + A13:2024 -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 + A1:2020 -IS 13252 (Part1): 2010
3D Video Support	N/A
Streamback	N/A

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