

# MNA-240 decoder

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



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

The MNA-240 decoder converts RAW IP packets into DVI video signals and other signals such as audio and USB. End-to-end latency is amazingly short and is guaranteed not to exceed a single frame (< 15 ms). The video streams that are distributed over the Nexxis network can go up to a resolution of 4K.

- IP-to-AV conversion at the endpoint
- Seamless integration with Barco's 4K surgical displays
- Support for non-video traffic (e.g. keyboard, mouse and audio) via USB connectivity
- Easy integration via central API provided by the Nexxis OR Management Suite NMS
- Quad-view video composition
- Streaming of FHD and UHD video composition into the network
- 4K video output
- Quad-view composition with up to 4 FHD video streams
- Network stream-back of FHD video composition
- Nexxis Plug&Play via NMS
- Provides advanced image processing capabilities such as de-interlacing, scaling, overlaying, color conversion

**PRODUCT SPECIFICATIONS****MNA-240 DECODER**

Video conversion	Uncompressed IP video streams to digital video signals
Processing	Up to 4096x2160@60Hz
Color depth	10 bits / color
Latency	Subframe
Security	AES 128 encryption of all video, data & control signals
Video Output	DisplayPort: 1 x DP 1.2 MST and SST, conversion to HDMI 2.0 via validated adapter cable DVI: 2 x DL-DVI
Network output	1x FHD and 1x UHD video composition (network output cannot be used in combination with video output)
Video composition	Up to 4x 1920x1200@60Hz
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	3x USB OTG type A/B & 1x USB Type A
Audio	Line-in, line-out, headphones-out and mic-in (mono) 3.5mm connector
Nexxis integration	Supported from Nexxis R1.08 onwards
PSU	External 12V Medical Approved PSU, 100-240VAC 60W, external locking
Power consumption	< 37W
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) Non-operating: -20°C to 70°C (-4°F to 158°F)
Storage	Storage temperature: -20°C to 60°C (-4°F to 140°F) Storage Relative Humidity: 10% to 93% Altitude: minimum 500hPa
Sound level	Typical 32dBA at 20°C
Mounting	Optional VESA adapter plate or 1U rack mount for 2 devices
Certifications	-UL 60601-1 -CE EN60601-1 ed 3 -c-UL CSA C22.2 No601.1
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

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Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.