

# 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
- 4K Transcoding enabled by SW license
- WorkSpot functionality enabled by SW license
- Nexxis Plug&Play via NMS
- Provides advanced image processing capabilities such as de-interlacing, scaling, overlaying, color conversion

## Product specifications

## MNA-240 DECODER

### General specifications

Video conversion	Converts uncompressed IP-streams into Digital video signals
Processing	Up to 4096x2160@60Hz only on DP Or up to 2560x1600@60Hz on each of the two DVI output channels
Color depth	RGB 8-bit & 10-bit
Latency	When genlocked, the end-to-end latency is subframe
Security	Decryption of AES 128 encrypted video, data & control signals
Encoder system	N/A
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
Video Input	N/A
Network output	-Compositor streamback mode: 1x FHD and 1x UHD video composition -Transcoding mode: Transcode 2 FHD (up to 1920x1080@60) raw streams simultaneously to 2 FHD H.264 streams or 1 UHD/4K (up to 4096x2160@60) stream to a UHD/4K half framerate H.264 stream (up to 4096x2160@30). In addition to the video stream(s), the MNA-240 can also transcode 2 raw audio streams into 2 AAC 128kbps encoded audio streams. Note: Network output cannot be used in combination with video output.
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	Transcoding supported from Nexxis 1.15 onwards. The MNA-240 decoder is compatible with MNA-1x0, MNA-240 and MNA-4x0 devices.
NexxisPlus Integration	N/A
PSU	External 12V Medical Approved PSU, 100-240VAC 60W, locking connector at DC side
Power Consumption	< 37 W at an ambient temperature of 25°C
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 + A11:2020 -IS 13252 (Part1): 2010
3D Video Support	N/A
Streamback	N/A

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