

# 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 specificaties

## MNA-240 DECODER

### General specifications

Videoconversie	Converts uncompressed IP-streams into Digital video signals
Verwerking	Up to 4096x2160@60Hz
Kleurdiepte	10 bits / color
Latentie	End-to-end: genlocked subframe; not genlocked two frames
Beveiliging	Decryption of AES 128 encrypted video, data & control signals
Video-uitgang	DisplayPort: 1 x DP 1.2 MST and SST, conversion to HDMI 2.0 via validated adapter cable DVI: 2 x DL-DVI
Netwerkuitvoer	<ul style="list-style-type: none"><li>Compositor streamback mode: 1x FHD and 1x UHD video composition</li><li>Transcoding mode:</li></ul> <p>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.</p> <ul style="list-style-type: none"><li>Note: Network output cannot be used in combination with video output.</li></ul>
IP-connectiviteit	2x 10GbE Fiber Optic Interface with SFP+ module
IP-normen	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-integratie	Transcoding supported from Nexxis 1.15 onwards. The MNA-240 decoder is compatible with MNA-1x0, MNA-240 and MNA-4x0 devices
Voeding	External 12V Medical Approved PSU, 100-240VAC 60W, locking connector at DC side
Energieverbruik	< 37 W at an ambient temperature of 25 °C
Grootte	38 mm H x 170 mm W x 170 mm D   1.5" H x 6.7" W x 6.7" D (+/-2 mm / 0.1")
Gewicht	1±0.01kg (2.20lbs)
Temperatuur	Operating: 0°C to 40°C (32°F to 104°F)
Vochtigheid	Max 85%
Opslag	Storage temperature: -20°C to 60°C (-4°F to 140°F) Storage Relative Humidity: 10% to 93% Altitude: minimum 500hPa
Geluidsniveau	Typical 32dBA at 20°C at 1m
Montage	Optional VESA adapter plate or 1U rack mount for 2 devices
Certificeringen	<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>
Standaarden	<ul style="list-style-type: none"><li>IEC 60601-1:2005 + Am1:2012</li><li>IEC 60601-1-6:2010 + Am1:2013</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> <p>ITE Equipment:</p> <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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