

MNA-420 ENC SDI

HD AV-to-IP adapter for the OR and hybrid OR



- AV-to-IP conversion
- 2 x FHD resolution
- Medical-grade
- Established 3rd generation technology

Adapter for the operating room

The MNA-420 ENC SDI converts 2 3GSDI 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 low and is guaranteed not to exceed a single frame.

Capabilities

The MNA-420 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.

As a third generation device, the MNA-420 ENC SDI provides the full richness of the established Nexxis platform while:

- increasing future scalability
- improving ease of installation
- adding increased security performance
- reducing ecological footprint

Product specificaties

MNA-420 ENC SDI

Algemene specificaties

| | |
|-----------------------------|--|
| Videoconversie | Converts digital video signals to uncompressed IP streams |
| Verwerking | 1920x1080p60 on each of the two 3G-SDI input channels |
| Kleurdiepte | YCbCr 422: 8-bit / 10-bit |
| Latentie | Subframe |
| Beveiliging | AES 128 encryption of all video, data & control signals |
| Encodersysteem | N/A |
| Video-uitvoer | N/A |
| Video-invoer | 2x 3G-SDI standard BNC connector |
| Netwerkuitgang | 2x HD uncompressed IP stream |
| IP-connectiviteit | 1x 10GbE Fiber Optic Interface with SFP+ module |
| IP-standaarden | Zeroconf, IPv4, IGMP, DHCP, sRTP, sRTCP, 802.1q, AES 128b, HTTP(s) |
| USB | 1x USB Type A |
| USB Power Output | Max. 5 V / 500 mA (2.5 W) per USB 2.0 Type-A port |
| Audio | Headset/Stereo line out 15mm length compatible 3.5mm TRRS jack |
| Naleving | N/A |
| GPIO | 1x GPI (1x camera trigger) via 15mm length compatible 3.5mm TRRS jack |
| Nexxis Integratie | Fully integrated in the Nexxis solution, compatible with MNA-1x0, MNA-240 and MNA-4x0 devices |
| NexxisPlus-integratie | N/A |
| PSU | External 12Vdc Medical Approved PSU, 100-240VAC 50-60Hz 60W with lockable connector at DC side |
| Stroomverbruik | Maximum: 20W Typical: 8.4W |
| Grootte | 35 mm H x 103 mm W x 131 mm 1.4" H x 4.1" W x 5.2" D (+/-2 mm / 0.1") |
| Gewicht | 0.4 kg (0.88 lbs) |
| Temperatuur | 5°C to 40°C (41°F to 104°F) |
| Vochtigheid | Maximum 85% |
| Hoogte | 700 hPa |
| Opslagvoorwaarden | Storage temperature: -20°C to 60°C (-4°F to 140°F) Storage relative humidity: 10% to 93% Storage altitude: 500 hPa |
| Akoestisch geluidsniveau | Typical 32dBA at 20°C at 1m |
| Montage | Versatile mounting bracket included |
| Certificeringen | -CB (IEC 60601-1) -CB (IEC 62368-1) -cRU, RU (cRUus) -Demko -CE medical device class I -UKCA -BIS Registration, IS 13252 (part 1) |
| Normen | 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 |
| Ondersteuning voor 3D-video | The following video formats are supported: -1920x1080p60Hz Line-interleaved -1920x1080i60Hz Line-interleaved Level B (vpid 0x8C) -Dual-stream 1920x1080p60Hz (using first two-SDI input channels) |
| Streamback | N/A |

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