

MNA-440 ENC SDI

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



- AV-to-IP conversion
- Up to 4K resolution
- Medical-grade
- Established 3rd generation technology

Adapter for the operating room

The MNA-440 ENC SDI converts 2x 3GSDI or 1x 12GSDI or 1x QUAD SDI video signals to Nexis 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.

The video streams that are distributed over the Nexis network can go up to a resolution of 4K.

Capabilities

The MNA-440 adapters are part of Barco's Nexis solution, which provides users with uncompromised networked visualization for the digital operating room. The compact Nexis 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-440 ENC SDI provides the full richness of the established Nexis platform while:

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

技术规格

MNA-440 ENC SDI

一般规格	
视频对话	Converts Digital video signals to uncompressed IP streams
处理	4096x2160@60Hz on a single 12G-SDI input, or 4096x2160@60Hz on a quad3G-SDI input, or 1920x1080@60Hz on each of the two 3G-SDI input channels
灰阶	YCbCr 422: 8-bit / 10-bit
3D技术	支持以下视频格式: <ul style="list-style-type: none"> ▪ 1920x1080p60Hz 隔行扫描 ▪ 1920x1080i60Hz 隔行扫描 B 级 (vpid 0x8C) ▪ 双流 1920x1080p60Hz (使用第一个双 SDI 输入通道) ▪ UHD/4K60 3D 隔行扫描半高: 每个视图 3840/4096x1080
延迟	Subframe
安全性	AES 128 encryption of all video, data & control signals
视频输入	输入通道 1 上的 3G/12G-SDI 标准 BNC 连接器 输入通道 2、3 和 4 上的 3G-SDI 标准 BNC 连接器
网络输出	1x 4K/UHD uncompressed IP stream & 1x downscaled FHD IP stream of native 4K/UHD source Or 2x HD uncompressed IP stream
IP 连通性	2x 10GbE Fiber Optic Interface with SFP+ module
IP 标准	Zeroconf, IPv4, IGMP, DHCP, RTP, RTCP, 802.1q, AES 128b, HTTP(s)
USB	1x USB Type A
音频	Headset/Stereo line out 15mm length compatible 3.5mm TRRS jack
GPIO	1x GPI (1x camera trigger) via 15mm length compatible 3.5mm TRRS jack
Nexxis 整合	Fully integrated in the Nexxis solution, compatible with MNA-1x0, MNA-240 and MNA-4x0 devices
PSU	External 12VDC Medical Approved PSU, 100-240VAC 50-60Hz 60W with lockable connector at DC side
功率消耗	更大: 20W 标准: 13.6W
尺寸	35 mm H x 103 mm W x 131 mm D 1.4" H x 4.1" W x 5.2" D (+/-2 mm / 0.1")
净重	0.4 千克 (0.88 lbs)
温度	5°C to 40°C (41°F to 104°F)
湿度	更大 85%
存储	Storage temperature: -20°C to 60°C (-4°F to 140°F) Storage Relative Humidity: 10% to 93%
噪声	Typical 32dBA at 20°C at 1m
固定	Versatile mounting bracket included

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认证

- CB (IEC 60601-1) Informative report
- CB (IEC 60950-1)
- cRU, RU (cRUus)
- Demko
- CE medical device class I
- UKCA
- BIS Registration, IS 13252 (part 1)
- KC
- BSMI
- RCM
- EAC

标准

Medical Equipment:

- IEC 60601-1:2005 + Am1:2012
- IEC 60601-1-6:2010 + Am1:2013
- IEC 60601-1-2:2014 (ed4)
- ANSI/AAMI ES 60601-1: A1:2012 + C1:2009/(R)2012 + A2:2010/(R)2012
- CAN/CSA-C22.2 No.60601-1:14
- EN 60601-1:2006 + A1:2013 + A12:2014
- EN 60601-1-6:2010 + A1:2015
- EN 60601-1-2:2015 (ed4)
- FCC class B
- ICES-001 Level B

ITE Equipment:

- IEC 60950-1:2005 + Am1:2009 + Am2:2013
- EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011
- IS 13252

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技术规格随时变化, 不会事先通知。请访问www.barco.com.cn, 获取更新信息。

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