

MNA-240 DP 1.2 SST Encoder

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



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

Adapter for the operating room

The MNA-240 DP 1.2 encoder converts DisplayPort 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 short and is guaranteed not to exceed a single frame. The video streams that are distributed over the Nexxis network can go up to a resolution of 4K.

Capabilities

- AV-to-IP conversion at the source
- Seamless integration in the Nexxis environment
- Support for non-video traffic (e.g. keyboard, mouse and audio) via USB and audio connections
- Easy integration via central API provided by the Nexxis OR Management Suite NMS
- Streaming of 4K and downscaled FHD video onto the network

The MNA-240 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.

Product specifications**MNA-240 DP 1.2 SST ENCODER**

General specifications	
Video conversion	Converts Digital video signals to uncompressed IP streams
Processing	Up to 4096x2160@60Hz
Color depth	8 bits / color
Latency	Subframe
Security	AES 128 encryption of all video, data & control signals
Video Input	Interface: 1x DP 1.2 SST
Network output	1X 4K/UHD uncompressed IP stream 1x downscaled FHD IP stream of native 4K/UHD source
IP connectivity	2x 10 GbE 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
Audio	Line-in, line-out, headphones-out and mic-in (mono) 3.5mm connector
Nexxis integration	Supported from Nexxis 1.08 onwards
PSU	External 12V Medical Approved PSU, 100-240VAC 60W, external locking
Power consumption	< 35W
Size	38 mm H x 170 mm W x 170 mm D 1.5" H x 6.7" W x 6.7" D (+/-2mm / 0.1")
Weight	1±0.01kg (2.20lbs)
Temperature	Operating: 0°C to 40°C (32°F to 104°F)
Humidity	Max 85%
Storage	Storage temperature: -20°C to 60°C (-4°F to 140°F) Storage Relative Humidity: 10% to 93%
Sound level	Typical 32dBA at 20°C at 1m
Mounting	Optional VESA adapter plate or 1U rack mount for 2 devices
Certifications	<ul style="list-style-type: none"> ■ 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
Standards	<p>Medical Equipment:</p> <ul style="list-style-type: none"> ■ 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 <ul style="list-style-type: none"> ■ IEC 60950-1:2005 + Am1:2009 + Am2:2013 ■ EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 ■ IS 13252

Last updated: 18 Mar 2024

© 2018 Barco nv. All rights reserved. Reproduction in whole or in part without written permission is prohibited. All brand names and product names are trademarks, registered trademarks or tradenames of their respective holders. Due to continued innovation, information and technical specifications are subject to change without prior notice. Please check www.barco.com for the latest specifications.