MNA-410 WPM

FHD AV-to-IP adapter for the operating & interventional room



- **Multi-Format**
- **AV-to-IP conversion**
- **FHD resolution**
- **Medical device**
- **Established 3rd generation technology**

Barco's MNA series comprises adapters to encode and decode video data and other information (e.g. control signals) to and from IP streams. These medically certified adapters ensure overall connectivity and support for current and legacy video sources and displays. Automated device detection eliminates the need for user intervention when setting up the room.

Wall Plate Adapter

The MNA-410 WPM encoder, designed in a wall plate form factor, seamlessly converts 3G-SDI, CVBS, VGA, and HDMI™ (including DVI) video signals into Nexxis IP streams for efficient transmission over standard high-bandwidth IP networks. End-to-end video latency is near-zero and is guaranteed not to exceed a single frame when genlocked.

Capabilities

The MNA-410 WPM encoder is part of Barco's Nexxis solutions, 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-410 WPM
General Specifications	
Video conversion	Digital and analog video signals to uncompressed IP streams
Processing	Up to 1920x1200@60Hz
Color depth	HDMI/ RGB 8bpc, YCbCr4:2:2-10bpc, YCbCr4:4:4-8bpc CVBS/ YCbCr 4:2:2 10bpc VGA/ RGB 10bpc
Latency	Subframe
Security	AES 128 encrypted transmission of all video, data & control
Video Input	Connectors / Video Input HDMI ——————— HDMI or DVI D-sub15 ——— VGA: RGBHV -RGBS -RGsB BNC ——————— 3G-SDI or CVBS
Network output	1x FHD uncompressed IP stream
IP Connectivity	1x 10 GbE LC-LC OM3 or OM4 fiber optic interface on the back
GPIO	1x 3,5mm jack connector for camera trigger and general IO
Nexxis Integration	Fully integrated in the NexxisOR 2.x solution and compatible with Nexxiscube
PSU	12V DC
Power Consumption	Maximum: 13W Typical: 8W
Size	115 mm (H) x 70 mm (W) x 72 mm (D) 4.53'' (H) x 2.76'' (W) x 2.83'' (D)
Weight	240g
Temperature	Operational: 5°C to 35°C (41°F to 95°F) Non-operational: -20°C to 60°C (-4°F to 140°F)
Humidity	Operational: max 85% RH Non-operational: max 93% RH
Storage conditions	Storage temperature: -20°C to 60°C (-4°F to 140°F) Storage relative humidity: 10% to 93% Storage pressure: 50kPA to 106kPa
Mounting	Minimum Build in cavity dimensions • 73 mm (H) x 48 mm (W) x 48 mm (D) • 2.87'' (H) x 1.89'' (W) x 1.89'' (D) Fixation point, hole to hole distance = 83.34 mm / 3.28''
Certifications	-CB (IEC 60601-1) -CB (IEC 62368-1) -cRU, RU (cRUus) -CE medical device class I -UKCA
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

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