

# MNA-110 ENC HDSDI

AV-to-IP encoder for the digital operating room with SDI input



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. Automated device detection eliminates the need for user interventions when setting up the operating room.

## Conversion to IP

The MNA encoders take in baseband video and non-video data and convert these to IP streams for transportation over a standard high-bandwidth IP network. The MNA decoders reconvert these raw IP packets to DVI video signals and other signals such as USB. End-to-end latency is amazingly short and is guaranteed not to exceed a single frame (< 15 ms).

## The medical-grade MNA adapters offer:

- AV-to-IP conversion at the imaging source
- Complete connectivity for current and legacy video sources in the operating room, cath lab or interventional suite
- Support for non-video traffic (e.g. keyboard, mouse)
- Easy integration via central API provided by Barco's NMS 1.0 software
- Smooth setup and ease of use

**PRODUCT SPECIFICATIONS****MNA-110 ENC HDSDI**

Conversion	Digital and analog baseband video signals to uncompressed IP video streams
Processing	Up to 300 Mega Pixels per second (up to 1920 x 1080/60Hz)
Security	AES 128 encrypted transmission of all video, data & control signals
Encoder system	SDI (up to 3G-SDI)
IP connectivity	10GE Fiber Optic Interface with SFP+ connector module
IP standards	AVB, IP, IGMP, IGMP snooping, PIM, RTP, RTCP, 802.1q, AES 128b, HTTP(s)
USB	USB OTG type A/B USB Type A
Audio	N/A
Compliance	Supporting HIPAA compliance External 12V Medical Approved PSU
Power consumption	< 30W
Size	152x152x37 mm
Net weight	Maximum 750 g
Noise Level	38dBA
Operating temperature	Range +5°C to +35°C Temperature change
Storage temperature	Range -20°C to +60°C Temperature change
Humidity	Operational: 35°C / 85% RH non condensing Storage: RH + 40°C / 95% non condensing
Certifications	UL 60601-1; CE EN60601-1 ed 3; c-UL CSA C22.2 No601.1 FCC-B; EN 60601-1-2:2015, IEC 60601-1 ed 3 CE (MDD) ICES-001

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Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.