

# MNA-120 ENC DP

AV-to-IP encoder for the digital operating room with 2x DP inputs



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 decoder reconverts 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 and audio)
- Easy integration via central API provided by Barco's NMS 1.0 software
- Smooth setup and ease of use

**PRODUCT SPECIFICATIONS****MNA-120 ENC DP**

<b>Processing</b>	Up to 165 Mega Pixels per second, for either one or two separate video signals (up to 1920 x 1200/60Hz per input)
<b>Conversion</b>	Digital and analog baseband video signals to uncompressed IP video streams
<b>Security</b>	AES 128 encrypted transmission of all video, data & control signals
<b>Encoder system</b>	2x DP input
<b>IP connectivity</b>	10GE Fiber Optic Interface with SFP+ connector module
<b>IP standards</b>	AVB, IP, IGMP, IGMP snooping, PIM, RTP, RTCP, 802.1q, AES 128b, HTTP(s)
<b>USB</b>	USB OTG type A/B USB Type A
<b>Audio</b>	Line-in, line-out and mic-in connector
<b>Compliance</b>	Supporting HIPAA compliance External 12V Medical Approved PSU
<b>Power consumption</b>	< 30W
<b>Size</b>	152x152x37 mm
<b>Net weight</b>	Maximum 750 g
<b>Noise Level</b>	38dBA
<b>Operational temperature</b>	Range +5°C to +35°C Temperature change
<b>Storage temperature</b>	Range -20°C to +60°C Temperature change
<b>Humidity</b>	Operational: 35°C / 85% RH non condensing Storage: RH + 40°C / 95% non condensing
<b>Certifications</b>	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.