

ENA-340 Encoder

4K AV-to-IP adapter for uncompromised media distribution



- **AV-to-IP conversion at the source with automatic resolution detection or a full custom setup**
- **Seamless keyboard & mouse experience**
- **Mono-directional audio support**
- **Easy configuration & management via Enterprise Virtual Matrix management platform**
- **Streaming in uncompressed RAW format up to 4K@60fps resolution via a single or dual 10G Ethernet interface**
- **3D Stereo support**

The ENA-340 encoder converts DisplayPort 1.2 video signals into an uncompressed RAW IP stream without compromising on image quality or 3D signaling transparency. The 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 media network can go up to a resolution of 4K@60 fps. In addition, analog audio and USB for keyboard/mouse are also transported over the same standard network allowing for a full KVMA solution.

The ENA-340 adapters are an integrated part of Barco's Enterprise Virtual Matrix solution, which provides users with uncompromised networked visualization for high end demanding applications. The compact AV-to-IP adapters offer simplicity and flexibility while maintaining the highest possible performance standards and fitness for use in any demanding environment.

Product specifications

ENA-340 ENCODER

General specifications

Color depth	10 bits / color
3D capability	Inbound 3D stereo signal in DP1.2 signal
Resolution	Up to 4096x2160@60Hz (max)
Video Input	1x DP 1.2 SST interface, no embedded audio support
Video conversion	Digital video signals to uncompressed IP streams
Audio inputs & outputs	line in, line out, headphone out and microphone in (mono) via 3.5 mm jack. Note: the microphone is implemented for future use inside the Enterprise Virtual Matrix system.
USB ports	1x micro-USB Type B & 3x USB type A
Video Output	1x 4K/UHD uncompressed IP stream
Latency	Sub frame (less than 17ms at 60fps) end-to-end
Network interface	2x 10Gb 850nm Multimode Fiber Optic Ethernet Interface using SFP+ connector module or 2x 10Gb 1310nm Single-mode Fiber Optic Ethernet Interface using SFP+ connector module
IP addressing	DHCP, link local, fixed IP
Protocols	Unicast, Multicast (IGMP v3), RTP, RTSP, DNS, NTP
RTSP Sessions	Multicast: maximum 12 simultaneous RTSP session per channel Unicast: maximum 2 simultaneous RTSP session per channel
Discovery	Zeroconf, SAP (RFC 2974)
Integration to third party equipment	Open API exposed by Enterprise Virtual Matrix Platform
Size	38 mm H x 170 mm W x 170 mm D 1.5" H x 6.7" W x 6.7" (+/-2mm / 0.1")
Weight	1±0.01kg (2.20lbs)
Power consumption	< 35W
Power supply	External 12V PSU, 100240VAC 60W, external locking
Temperature	Operating: 0°C to 40°C (32°F to 104°F) Non-operating: -20°C to 60°C (-4°F to 140°F)
Sound level	Typical 32dBA at 20°C
Mounting	Optional VESA adapter plate or 1U rack mount for 2 devices
Dimensions (packaged)	382mm x 273mm x 85mm 15,04" x 10,75" x 3,35"
Weight (packaged)	2.2 kg 4.8 lbs
Safety	UL/ cUL/ EN/ IEC 60950-1 CB report
EMC	CE, FCC Part 15 Class A, CISPR 22, ICES003

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