

AEON-ENC

AEON HEVC Rack Encoder

Overview:

The AEON HEVC Rack Encoder provides low latency HEVC Ultra High Definition encoding to ASI/IP output. Ideal for adding 4K, multi-channel, HEVC support to existing RF/IP systems. Each encoder can support single 4K or up to 4 HD streams via quad 3G-SDI inputs, and has two stereo balanced audio inputs available with phantom power. The encoder has an integrated control panel with sunlight-readable OLED display covering all major functions, as well as IP based control.

The HEVC codec used in AEON products offers a step change in compression efficiency over H.264 systems, whilst maintaining low end to end latency suitable for live events.



Features and Benefits:

Ultra-low latency HEVC SD, HD and 4K encoding

Video formats up to 2160p60, 10-bit and 4:2:2 Chroma sampling, future HDR support

Controlled via IP or integrated sunlight-readable OLED display

Designed for sports & events coverage, newsgathering and wireless studio camera applications

Scalable encoding platform supporting single 4K or four HD services

Low power consumption and active cooling for extended field performance

Compact 1/2 1RU rack form factor

Product Information:

Product Includes

CA0579	XLR audio input cable
CA0649	XLR 12V 6.67A 80W desktop PSU
SA4075	AEON HEVC support USB stick

Accessory Options (sold separately)

AEON-TX	AEON HEVC Transmitter
AEON-DEC	AEON HEVC Decoder 1/2 1RU Rack

Related Documents

100249	AEON HEVC User Guide
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Technical Specification:

IO

SD/HD/3G-SDI Inputs	4x BNC
ASI Input	BNC **
ASI Output	BNC
Genlock Input	BNC **
Balanced Audio Inputs	2 x 5-way OB Lemo (CA0579 2x XLR3)
Serial Data Input	9-way D-sub **
Power Input	4-way XLR
Ethernet	RJ45

Video

SD Input Format	SMPTE-259M 720x576i 50Hz 720x480i 59Hz
HD Input Format	SMPTE-292M/424M 1920x1080i 60/59.94/50Hz 1920x1080p 60/59.94/50/30/29.97/25/24/ 23.97Hz 1920x1080psf 30/29.97/25/24/23.97Hz 1280x720p 60/59.94/50Hz
Ultra HD Input Format	SMPTE ST-2081/2082 3840x2160p 60/59.94/50/30/29.94/25/24/ 23.97Hz
HEVC Compression	HEVC/H.265/MPEG-H Part 2 8-bit or 10-bit, 4:2:0 or 4:2:2
H.264 Compression	AVC/H.264/MPEG-4 Part 10
MPEG-2 Compression	H.262/MPEG-2 Part 2
HDR Support	Standards TBC **

Audio

Analogue Audio Input	Two balanced analogue stereo pairs +24dBu max input level
Analogue Phantom Power	48V
Digital Audio Input	SD/HD/3G-SDI de-embedding
Sample Rate	48kHz
Coding Modes	Up to 16 channels (8 pairs) LPCM MPEG Audio Layer 2 ** AAC-LC ** HE-AAC **

Other

RS232 Data Input	1k2 to 115k2, 7/8 bit, no/odd/even parity
Front Panel	Built in OLED with buttons

Physical

Dimensions	L 180mm, W 222mm, H 43mm
Weight	1250g

Power

DC Input	12V to 17.0V
Power Consumption	Typically 16.0W with 4K encoding

Environment

Temperature Range	-10 to +50 °C
Humidity	Less than 85% non-condensing

Software License Code

Silver (included)	Single 4K and Quad HD Encoder
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** Future development

Export of encrypted products is subject to United Kingdom regulatory export controls.

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email solent.enquiries@domotactical.com

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