

# AEON-DEC

## AEON HEVC Rack Decoder

### Overview:

The AEON HEVC Rack Decoder provides low latency HEVC Ultra High Definition decoding from ASI/IP input. Ideal for adding decode support for the AEON Transmitter to existing receiver systems. Each decoder can support single 4K or up to 2 HD streams via quad 3G-SDI outputs, and has two stereo balanced audio outputs available. The decoder 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 decoding with Tri-level sync genlock

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 decoding platform supporting single 4K or two HD services

Low power consumption and active cooling for extended field performance

Compact 1/2 1RU rack form factor

### Product Information:

#### Product Includes

CA0512	XLR audio output cable
CA0649	XLR 12V 6.67A 80W desktop PSU
SA4075	AEON HEVC support USB stick

#### Accessory Options (sold separately)

CA0512	Additional second channel XLR audio output cable
AEON-TX	AEON HEVC Transmitter
AEON-ENC	AEON HEVC Encoder 1/2 1RU Rack
PRORXD-1RU	4-way Professional Receiver 1/2 1RU Rack
PRORXD-2RU	8-way Professional Receiver 1/2 2RU Rack

#### Related Documents

100249	AEON HEVC User Guide
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### Technical Specification:

#### IO

SD/HD/3G-SDI outputs	4 x BNC
ASI input	BNC
ASI output	BNC
Genlock input	BNC
Balanced audio outputs	2 x 5-way OB Lemo (CA0512 2 x XLR3)
**Serial data output	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 output	Two balanced analogue stereo pairs +24dBu max output level
Digital audio output	SD/HD/3G-SDI re-embedding
Sample rate	48kHz
Decoding modes	Up to 16 channels (8 pairs) LPCM **MPEG Audio Layer 2 **AAC-LC **HE-AAC

#### Other

RS232 data output	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 decoding

#### Environment

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

#### Software License Code

Silver (included)	Single 4K and Quad HD Decoder
LIC-AEON-PSF	PSF Video Formats

\*Additional license feature

\*\*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](mailto:solent.enquiries@domotactical.com)

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