DTC

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

Domo – Video, IP and Sensors

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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 0B 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

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