

AEON-LT

AEON HEVC Transmitter Lite

Overview:

A compact COFDM digital video transmitter, specifically designed for high quality wireless link applications. With proven Domo COFDM and next generation HEVC encoder technology at its core enabling Ultra High Definition images, the small size and actively cooled enclosure give maximum operational performance.

Designed to offer future proof connectivity, the unit supports quad 3G-SDI video inputs. Two true balanced audio inputs are included with phantom power. The transmitter has an integrated control panel with sunlight-readable display covering all major functions and has sixteen user-defined presets, 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.



V-mount
battery option

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

Industry standard DVB-T modulation for interoperability with existing systems

Domo Broadcast UMVL modulation for enhanced high frequency/high speed performance

Controlled via IP or integrated sunlight-readable display

Available as V-mount, AB-mount or no battery mount options

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

Low power consumption and active cooling for extended field performance

Product Information:

Product Includes

CA0579	XLR audio input cable
CA3348 x 4	SDI HD-BNC to BNC cable, 0.25m
SA4329	AEON Lite USB support stick

Accessory Options (sold separately)

CA0340	RS232 data cable
CA0579	Additional second channel XLR audio input cable
CA3421	OB Lemo 15V 6.0A 90W desktop PSU
PRORXD-8-2RU-AEON	4K Professional HEVC Receiver and Decoder

Related Documents

100273	AEON Lite HEVC Transmitter User Guide
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Technical Specification

IO

SD/HD 3G-SDI inputs	HD-BNC x 4
Serial data input	4-way 0B Lemo
Power input	4-way 0B Lemo
RF COFDM transmitter	N-type
Balanced audio input	5-way 0B Lemo x 2
Battery mount	V-Lock or Anton Bauer plates
Ethernet	RJ45

DVB-T Modulation

DVB-T bandwidth	8MHz, 7MHz and 6MHz modes
DVB-T dual pedestal	2x8MHz, 2x7MHz and 2x6MHz modes
DVB-T FEC	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T constellation	QPSK, 16QAM, 64QAM
DVB-T guard interval	1/4, 1/8, 1/16, 1/32
DVB-T bitrates	3.732Mbps to 31.668Mbps

UMVL Modulation

UMVL bandwidth	8MHz, 7MHz and 6MHz modes
UMVL FEC	1/3, 2/3
UMVL constellation	QPSK, 16QAM, BPSK, 8PSK
UMVL guard interval	1/8, 1/16
UMVL bitrates	1.317kbps to 14.869Mbps

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

Audio

Analogue audio input	Two balanced analogue stereo pairs +4dBu max input level
Analogue phantom power	48V switchable
Digital audio input	SD/HD 3G-SDI de-embedding
Sample rate	48kHz
Coding modes	Up to 8 channels (4 pairs) LPCM

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Technical Specification (con't):

Other

RS232 data input	1k2 to 115k2, 7/8 bit, no/odd/even parity
Front panel	Built in display with button control

Power

DC input	9.2V to 17.8V reverse polarity protected
Power consumption	30W max

Physical

Dimensions (no battery mount)	177mm (L), 125mm (W), 50mm (D)
Weight	1080g

Environment

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

Frequency

198270	1.98-2.70GHz
300370	3.00-3.70GHz
440500	4.40-5.00GHz
700750	7.00-7.50GHz

Software License Code

Silver (included)	DVB-T, Ultra Mobile Video Link (UMVL), Dual Pedestal, Single HD Encoder
LIC-AEON-PSF	PSF Video Formats

*Additional license feature

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

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