

AEON-CC

AEON HEVC Transmitter, Camera Control

Overview:

A compact COFDM digital video transmitter with integrated camera control, 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 native 12G-SDI, dual 6G-SDI, quad 3G-SDI. Two true balanced audio inputs are included with phantom power. The transmitter has an integrated control panel with 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
- Industry standard DVB-T modulation for interoperability with existing systems
- Domo Broadcast UML modulation for enhanced high frequency/high speed performance
- Controlled via IP or integrated sunlight-readable LCD 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
- Integrated camera control for wide range of supported manufacturers

V-mount
battery option



No battery
mount option



Product Information:

Product Includes

AP008822	1/4 wave antenna SMA 433MHz (for camera control)
CA0579	XLR audio input cable
CA3348 x 4	12G-SDI HD-BNC to BNC cable 0.25m

Accessory Options (sold separately)

CA3421	OB Lemo 15V 6.0A 90W desktop PSU
CCCAM-GVUP	Grass Valley control protocol and cable
CCCAM-HUP	Hitachi control protocol and cable
CCCAM-IUP	Ikegami control protocol and cable
CCCAM-PUP	Panasonic control protocol and cable
CCCAM-SUP	Sony control protocol and cable
PRORXD-8-2RU-AEON	4K Professional HEVC Receiver and Decoder

Related Documents

TBA	AEON HEVC Transmitter, Camera Control User Guide
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Technical Specification:

IO

SD/HD 3G/6G/12G-SDI inputs	HD-BNC x 1
SD/HD 3G/6G-SDI inputs	HD-BNC x 1
SD/HD 3G-SDI inputs	HD-BNC x 2
Power input	4-way OB Lemo
RF COFDM transmitter	N-type
Balanced audio input	5-way OB Lemo
Battery mount	V-Lock or Anton Bauer plates
Ethernet	RJ45 x 2

IO (Camera Control)

Camera interface	10-way circular Hirose
Tally	5-way OB Lemo
RF input	SMA (403-473MHz)

DVB-T Modulation

DVB-T bandwidth	8MHz, 7MHz and 6MHz 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

Camera Control Demodulation

CC bandwidth	12.5kHz, 20kHz and 25kHz modes
CC constellation	4PSK, GMSK
CC sensitivity	-114dBm @ 25kHz bandwidth -111dBm @ 12.5kHz bandwidth

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	Balanced analogue stereo pair +18dBu max input level (up to 63dB gain)
Analogue phantom power	Off, 12V or 48V selectable
Digital audio input	SD/HD-3G/6G/12G-SDI de-embedding
Sample rate	48kHz
Coding modes	Up to 16 channels (8 pairs) LPCM

Encryption

Standard	ABS 32-bit
Licensed	AES 128/256-bit (subject to export control)

Power

DC input	9.2V to 17.8V reverse polarity protected
Power consumption	TBA

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Technical Specification (con't):

Physical

Dimensions	166mm (L), 96.8mm (W), 48mm (D)
Weight	TBA

Environment

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

Frequency

100150	1.00-1.50GHz
165240	1.65-2.40GHz
198270	1.98-2.70GHz
300370	3.00-3.70GHz
440500	4.40-5.00GHz
550600	5.50-6.00GHz
640700	6.40-7.00GHz
700750	7.00-7.50GHz

Software License Code

Silver (included)	DVB-T, Ultra Mobile Video Link (UMVL), Single HD Encoder
Gold	Silver plus DVB-T2*
Platinum	Gold plus Single 4K and Quad HD Encoder
AES128TX	AES 128-Bit Encryption
AES256TX	AES 256-Bit Encryption

* Planned future development

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

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