VISLINK

TRANSMITTER

HCAM

HEVC 4K UHD
Camera Transmitter

The Vislink HCAM leads the next generation of lightweight and highly portable wireless systems designed to capture live footage from breaking news, entertainment and sporting events.

With support for HEVC 4K UHD and HDR, the HCAM wireless camera transmitter delivers unprecedented image resolution and clarity. It allows operators freedom of movement to capture the immersive images that viewers crave, enabling audiences to get up close and personal at the heart of the action.

The HCAM transmitter is fully interoperable with the Vislink FocalPoint, a wireless camera control system that provides comprehensive functions for controlling multiple camera and operator control panel combinations.

HCAM offers flexibility with highly configurable mounting options and video interfaces, also providing a complimentary range of user interchangeable RF modules and software options, for use with:

- Broadcast cameras for sporting events
- ENG cameras for news gathering
- Prosumer cameras for the ultimate application flexibility

Key Features

- HEVC 4K UHD Very Low Latency Encoder
- HDR
- Interchangeable, future-proof, dual SFP modules supporting SDI/HDMI/Fiber Optic
- Interchangeable RF module for quick & easy frequency change
- Integrated Camera Control with FocalPoint Compatibility
- Optional direct-docking V-Lock & Anton Bauer battery plates with integral power feed through
- Remote control over WiFi via web interface

Typical Applications

- Event Coverage
- Newsgathering
- Sports Coverage
- PoV Cameras

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HCAM Datasheet

Technical Specifications	
RF Parameters	
Frequency Band	1.300–1.700 GHz*; 1.950–2.700 GHz*; 3.200–3.900 GHz*; 4.400–5.000 GHz; 6.425–7.125 GHz; 6.800–7.500 GHz; 7.200-7.750 GHz **pre-distortion correction*
Transmit Power	Adjustable 10 to 250 mW up to 3.9 GHz*; Adjustable 10 to 100 mW above 3.9 GHz* *or add Barrel Booster option1
Frequency Selection	Manual selection & 16 pre-set channels
Modulation	DVB-T2*, DVB-T, LMS-T, ISDB-T* **Licensable*
UHF Receiver	410 to 490 MHz frequency range; FocalPoint camera control compatibility
Modulation Modes	• QPSK, 16QAM, 64QAM, 256QAM • FEC: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6 • Guard interval: 1/4, 1/8, 1/16 y, 1/32
Data Rate	• DVB-T 4.98 to 31.7 Mbit/s • LMS-T 2.90 to 43 Mbit/s, bandwidth dependent (licensed option)
Bandwidth	• DVB-T bandwidths of 6/7/8 or 12/14/16 MHz with two carrier density • DVB-T2 bandwidths of 1.7/ 5/ 6/ 7/ 8MHz • LMS-T bandwidths of 3/4/5/6/7/8/10/ or • 12/14/16/20/24 MHz with two carrier density
FFT Size	• DVB-T 2K • DVB-T2 1K/2K • LMS-T 512K • ISDB-T 2K
Video and Audio Parameters	
Video Encoder Profiles	• HEVC (H.265) UHD, HD & SD - Main, Main 10, Main 4:2:2 10 • MPEG-4 AVC (H.264) HD & SD - Main, High, Baseline up to Level 5.2, High 10/High 4:2:2 • MPEG-2 (H.262) HD & SD - 4:2:0 8 bit, up to 1080i60
Video Inputs	2 SFP+ module slots supporting electrical and optical interfaces
Video Formats	• 480i @ 29.97 • 576i @ 25 • 720p @ 50, 59.94, 60 • 1080i @ 50, 59.94, 60 • 1080p @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 • 1080psF 23.98, 24, 25, 29.97, 30 • 2160p @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
Audio Inputs	• Embedded audio over SDI/HDSDI/3G SDI/6G SDI/ 12G SDI • 1x analogue audio stereo pair configured as Mic/Line level • Mic/Line level support with phantom power
Audio Encoding	• AAC (AAC-LC & HE-AAC) • MPEG-1 (Layer 1 & Layer 2) • Dolby E Passthrough • Linear PCM Passthrough
Latency	Single frame (4K UHD/1080p)2
Scrambling	• BISS-1 • BISS-E Injected • BISS-E Buried ID • AES

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Connectors	
Connectors	• 2x SFP+ module slots supporting electrical and optical interfaces carrying: - 4x SDI SMPTE-259M - 4x HD-SDI SMPTE-292M - 4× 3G-SDI SMPTE-424M - 2× 6G-SDI SMPTE-2081 - 1× 12G-SDI SMPTE-2082 • Power Connector: - 2-pin LEMO socket • Audio Connector: - 5-pin LEMO socket • Camera Cont. & ASI Connector: - 7-pin LEMO socket • Data & Tally Connector: - 3-pin LEMO socket • Ethernet Control Connector: - RJ45 10/100 • USB Connector: - Micro-AB USB 2.0 • RF Output Connector: - 50 Ω N-Type (M) • UHF Input Connector: - 50 Ω SMA (F)
Flexibility and Power Supply	
Power	• Extended operation voltage range, 10V to 32.2V DC • Power connector to connect to D-Tap power source • Can be powered with optional IDX or Anton Bauer battery plates
Power Consumption	35W max.
ASI	Input for service multiplexing (Remux) Output Input and Output on multifunction connector
PIDS	PIDs user configurable
User interface	• OLED display for enhanced visibility • Ethernet control via internal webserver • WiFi connectivity & control via internal webserver
Optional Licenses	HCAM-LICE-0001 - HCAM License Service 1 4K UHD HEVC Encode HCAM-LICE-0002 - HCAM License Service 2 HD 1080p HEVC Encode* HCAM-LICE-0003 - HCAM License Service 3 HD 1080p HEVC Encode* HCAM-LICE-0004 - HCAM License Service 4 HD 1080p HEVC Encode* HCAM-LICE-0007 - HCAM License H.264 Encode* HCAM-LICE-0009 - HCAM License Variable Bandwidth LMS-T* HCAM-LICE-0010 - HCAM License UHF Rx Camera Control HCAM-LICE-0011 - HCAM License BISS Scrambling* HCAM-LICE-0012 - ISDB-T License HCAM-LICE-0013 - Dual Pedestal DVB-T HCAM-LICE-0014 - AES Encryption HCAM-LICE-0015 - IP Camera Control *Now Included
Physical & Environmental	
Size and Weight	Size: 165 (L) x 43 (H) x 82 (W) mm3 Weight: 600g4
Environmental	Operating Temperature: 0˚C to 50˚C (32˚F to 122˚F)

Notes:

- Some features specified are available via optional licenses.
- Not all encoder interface options are concurrently available.
- We reserve the right to change specifications at any time without prior notice.
- [1] We recommend using the optional D-TAP cable to power the Barrel Booster.
- [2] End to end latency including RF, with Quantum Rx.
- [3] Including removable heatsink mounts, excluding RF connectors.
- [4] Including removable heatsink, excluding antennas.
- [5] HD & SD Services 2 to 4 can be enabled via optional licenses.
- [6] Unit supplied with 2× 3G-SDI SFP+ modules.

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