VISLINK

At the heart of the action.

HCAM
HEVC 4K UHD Camera Transmitter

HEVC Compression   **Single-frame latency**

Live Event Coverage

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 also helps facilitate the transition from OFDM to 5G technology for live event deployments. By incorporating the optional HCAM Module 5, a 5G edge device for Vislink HCAM OFDM systems, users can leverage 5G to drive new creativity and operational flexibility — while allowing a transition of service offerings at the pace that is right for them. It also maintains their ability to provide the highest quality video, lowest latency and guaranteed RF robustness.

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

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

Typical applications

o Event Coverage
o Newsgathering
o Sports Coverage
o PoV Cameras

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	Specification
RF Parameters	
Frequency Band	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-T LMS-T
UHF Receiver	410 to 490 MHz frequency range FocalPoint camera control compatibility
Modulation Modes	QPSK, 16QAM, 64QAM FEC: • 1/2, 2/3, 3/4, 5/6, 7/8 Guard interval: • 1/32, 1/16, 1/8, 1/4
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 MHz LMS-T bandwidths of 3/4/5/6/7/8/10/ 12/14/16/20 or 24 MHz* with two carrier density options Digital pre-distortion forenhanced adjacent channel performance** *Licensed option **Frequency permitting
Video & Audio Parameters	
Video Encoder Profiles	HEVC (H.265) UHD, HD & SD Main, Main 10, Main 4:2:2 10 4K Native and UHD (1 Service) HD (Up to 4 Services)5 SD (Up to 4 Services)5 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

Specification

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 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

Connectors

Connectors	2x SFP+ module slots supporting electrical and optical interfaces carrying[6]: 4x SDI SMPTE-259M 4x HD-SDI SMPTE-292M 4x 3G-SDI SMPTE-424M 2x 6G-SDI SMPTE-2081 1x 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 & 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.

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Specification

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

Physical & Environmental

Size & Weight	165 (L) x 43 (H) x 82 (W) mm³ 600g[4]
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 ULRX-LD 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 2x 3G-SDI SFP+ modules.

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