



# VISLINK

At the heart of the action.



HCAM Datasheet

# 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

- 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



# VISLINK

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**Specification**

**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, 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 512  
 ISDB-T 2K

**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)<sup>2</sup>

**Scrambling**

BISS-1  
 BISS-E Injected  
 BISS-E Buried ID

**Connectors**

**Connectors**

2x SFP+ module slots supporting electrical and optical interfaces carrying<sup>6</sup>:  
 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.



**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	<p>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*</p> <p>*Now Included</p>
<b>Physical &amp; Environmental</b>	
Size & Weight	165 (L) x 43 (H) x 82 (W) mm <sup>3</sup> 600g <sup>4</sup>
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.
- <sup>1</sup> We recommend using the optional D-TAP cable to power the Barrel Booster.
- <sup>2</sup> End to end latency including RF, with Quantum Rx.
- <sup>3</sup> Including removable heatsink mounts, excluding RF connectors.
- <sup>4</sup> Including removable heatsink, excluding antennas.
- <sup>5</sup> HD & SD Services 2 to 4 can be enabled via optional licenses.
- <sup>6</sup> Unit supplied with 2x 3G-SDI SFP+ modules.

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