ANTENNA

HCAM5 Module

5G Cellular HCAM and Camera Control Module

The Vislink HCAM5 Module introduces groundbreaking flexibility to wireless camera systems with its comprehensive 5G add-on for live video transmission, control, and configuration of roaming cameras in remote locations. With 2X 4G/5G public and private cellular connections, the HCAM5 ensures robust bonding connectivity, delivering high data rates even in crowded environments.

Designed to complement Vislink's industry-leading HCAM COFDM transmitter, known for its unmatched low latency, the HCAM5 Module provides the capability to simultaneously utilize HCAM's encoding features while connecting to both COFDM and 5G networks or leveraging its internal adaptive encoding technology.

When integrated with Vislink's HCAM and LinkMatrix management software, production teams can achieve high-quality video, full bi-directional connectivity, and seamless camera control over 4G and 5G cellular networks. This setup supports complete remote production workflows, significantly reduces on-site costs, and maximizes operational efficiency.

Key Features

5G and 4G LTE cellular bi-directional data connectivity

2× 4G/5G Bonded cellular modems

4× 3G or 1× 12G SDI video input

4:2:0, 8-bit and 4:2:2 10-bit H.265 (HEVC) encoding

Supports 720P50/60, 1080P50/60, 1080i50/60*,2160P50/60

Quick-release mounting with the Vislink HCAM wireless camera transmitter

Remote access to HCAM configuration and status information

Camera control

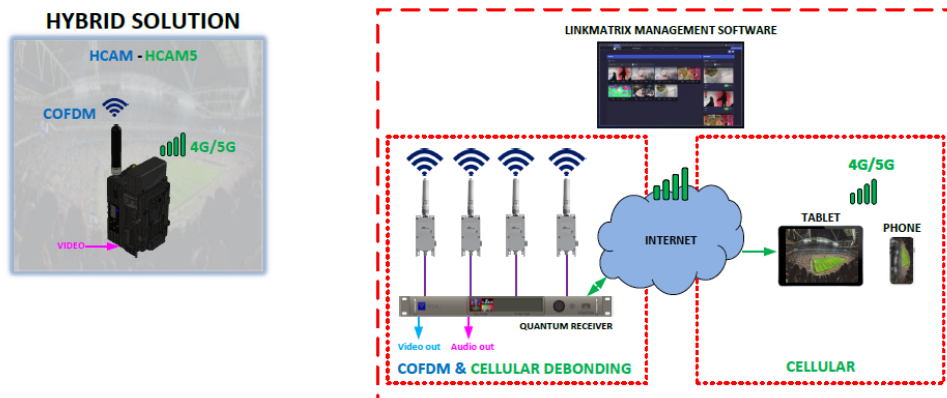Remote unit access through LinkMatrix system management platform

Typical Applications
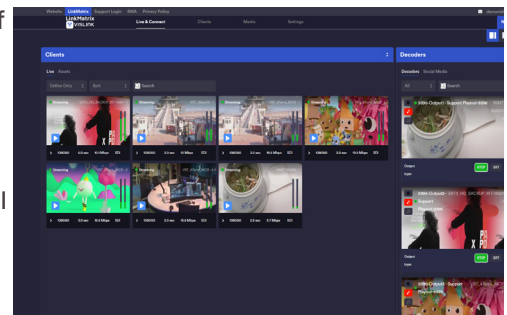
Event Coverage

Remote production

News gathering

Sports Coverage

HCAM5 Module Datasheet

LinkMatrix

LinkMatrix is Vislink's cloud-based management control center, designed for comprehensive control of field encoders, management of decoding destinations, and access to a wide range of configuration and diagnostic tools.
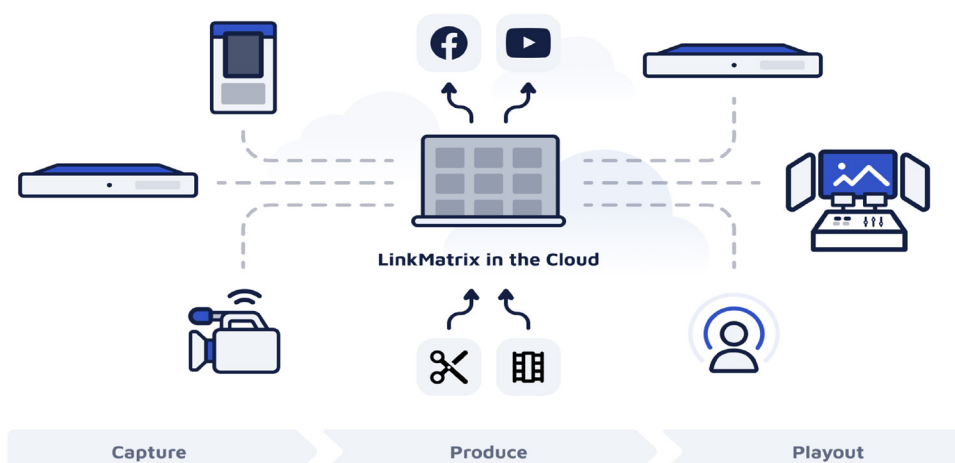

While LinkMatrix is free to use, an optional subscription-based cloud decoding service is available. This feature allows users to set up social media channels or a CDN for instant live streaming, eliminating the need for a physical decoder at the receiving end.

Operated through a standard browser with appropriate security credentials, LinkMatrix enables remote users to manage all Vislink devices under their control, without requiring technical expertise from on-air talent. The platform offers robust capabilities, including remote control, live streaming activation, social media publishing, and network diagnostics, such as SIM card management. Additionally, it provides editing and production tools like Clipper, which allows users to clip live streams and create media files for immediate publishing to platforms such as social media.

With its extensive feature set, LinkMatrix is an essential tool for streamlining live broadcasting workflows and enhancing production efficiency.

Vislink Broadcast Workflow

HCAM5 Module Datasheet

VISLINK

Technical Specifications	
RF Transmission	
Transmission System	5G NR, 4G LTE
Frequency Bands	**5G NR:** Sub-6: n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n48, n66, n71, n77, n78, n79 **4G LTE:** Cat-20: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B18, B19, B20, B21, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B71
Connectivity	
No. of SIM Cards	2× 4G LTE / 5G Modems, 2x SIM card slots
Satellite Support	BGAN/Starlink (extra w/sw license)
Error Correction	
i) AARQ (Adaptive Automatic Retransmission Request)	yes
ii) WMT (Wireless Multiplex Technology)	yes
Hosted Management	
LinkMatrix Compatible	yes
Social Media for Cloud Decoding	yes
Accessories	
Dome Antennas	yes
Backpacks	yes
Camera Mount Kits	yes
LinkMatrix Remote Control and Management	• Remote interface through to Vislink HCAM Web browser control • Remote portal through to 3rd party camera control protocols
Connectors	
Connectors	• 2x RJ45 Gigabit Ethernet • 7-pin Lemo interface for Camera control & ASI • ON/OFF switch • 2-pin Lemo DC IN • Audio Jack for intercom • Micro BNC – SDI IN • SFP Cage – future use
Power	• IDX V-Mount or Anton Bauer battery mounting 14.8V nominal supply • D-Tap power connector
Environmental	
Environmental	Operating Temperature: 0°C to 50°C (32°F to 122°F)

HCAM5 Module Datasheet

VISLINK

Technical Specifications (cont'd)	
Video Inputs	
4× 3G or 1× 12G SDI video input	12G SDI up to 4K UHD p50/60
Video Formats	
HD	720P @50/59.94/60; 1080i @50/59.94/60; 1080P @23/24/25/29/30/50/59.94/60
4K	UHDP @23/24/25/29/30/50/59.94/60
Audio Inputs	
Embedded Audio	4x Embedded Audio
Video Compression	
H.265 (HEVC) Encoding	4:2:2 Chroma, 10-bit Luma
Encryption	AES-256
Error Correction	
i) AARQ (Adaptive Automatic Retransmission Request)	yes
ii) WMT (Wireless Multiplex Technology)	yes