TRANSMITTER

Aero5

5G HEVC 4K UHD
Airborne Transmitter

The Aero5 LTE/5G Cellular-Based System provides an extended bi-directional link using local cellular infrastructure as the receive system. This may be used as a stand-alone cellular based downlink or combined with the AeroLink COFDM transmitter to provide a robust hybrid solution. The Aero5 technology creates a reliable high-throughput connection between air and public cellular infrastructure. The Aero5 may be used for video, file transfer, data, push-to-talk coms, or network connectivity.

The Aero5 is a two-box solution consisting of the Aircraft Cellular Encoder/Transceiver IDU and the Aero5 Antenna Pod. The IDU chassis design is sized to fit in a vertical ARINC mounting and has all connections on the front panel enabling easy access and maintenance. The output connects via a MIL Spec cable/connector to the Meeker Mount based pod on the outside of the aircraft. The Meeker Mount Aero5 Antenna Pod is DO-160 G tested.

The Aero5 enables the aircraft to be part of the ground ecosystem, allowing tactical units to take advantage of all the mission-critical data that may be garnished. The Aero5 uses the award-winning Vislink mobile encoder, part of Vislink's bonded cellular flagship products that have long been recognized for their ability to deliver high-quality, low-latency live video streaming capabilities. This makes the Aero5 the most technologically advanced 5G/LTE bonded cellular mobile encoder solution available for airborne video downlink applications today.

Key Features

Mobile H.265/H.264 4K Encoder

Multi camera – 1 or 2 input model available

8 internal modems (3G/4G/5G), Ethernet, Wi-Fi

Inputs: HD-SDI (3G); UHD-SDI (12G) on request

IP outputs: NDI, RTMP, RTSP, MPEG-TS

Internet hotspot (LAN and Wi-Fi),

Data and Video Storage

KLV Meta Data

ARINC Tray Mounting

Restful API for Integration

Typical Applications

Law Enforcement

ISR (Military and LE)

First Responders

National Security

Unmanned Aerial Vehicles

Event Coverage

Newsgathering

Sports Coverage

Ship-to-Shore

Aero5 Datasheet

![VISLINK]

Technical Specifications	
Video Encoder	
HEVC (H.265)	UHD, HD and SD Main, Main 10, Main 4:2:0 (8-bit) UHD (1 Service)* HD (up to 2 Service)*
MPEG-4 AVC (H.264)	HD and SD Main, High, Baseline up to Level 5.2, High 10/High 4:2:2
Maximum Bit Rate	40Mb/s
Video and Audio	
Video Input Type	2x SD-SDI SMPTE-259M 2x HD-SDI SMPTE-292M 2× 3G-SDI SMPTE-424M 1× 12G-SDI SMPTE-2082 Transport stream (IP Input) Wi-Fi
Return Video	HDMI
Formats	480i@29.97 576i@25 720p@50/59.94/60 1080i@50/59.94/60 (HEVC only) 1080p@23.98/24/25/29.97/30/50/59.94/60 2160p@23.98/24/25/29.97/30/50/59.94/60
IP Inputs	NDI SRT RTMP RTSP UDP/RTP
Audio Input	Embedded 4 Stereo Pairs
Audio Communications	Intercom and IFB COMMs via XLR-3
Coding	Advanced Audio Coding (AAC)
Connectivity	
Modems	1-8
Compatability	5G/LTE Bonded
Ethernet Ports	2
Satellite Support	BGAN/Starlink (Optional)
USB	2
System	
Local Storage	128 GB Record and Play-it-Forward
Internet Hotspot	Wi-Fi, Ethernet
Power	Aircraft Power (28vDC)
Optional License	
AERO-LICE-0001	4K UHD HEVC Encode (available upon request with hardware upgrade only)

Note:
* Variant contingent

E: sales@vislink.com T: +1 908 852 3700 / + 44 1442 431300   www.vislink.com