Digital Barriers

VISUALLY INTELLIGENT SOLUTIONS for airborne surveillance www.digitalbarriers.com

A REAL-TIME VIEW OVER THE HORIZON

When video from over the horizon needs to be obtained from small, man-portable drones, Digital Barriers' cutting-edge technology ensures it can be done cost effectively and with no noticeable time delay.

Our wide range of solutions is designed to provide real-time information and intelligence gathering from unattended airborne vehicles for superior situational awareness on the battlefield.

They are:

- The technology of choice for intelligence agencies and special operations forces globally
- Proven, patented and uniquely capable of streaming video more efficiently and effectively than any alternatives in any environment at all times
- Highly secure and encrypted (up to AES-256), while being fully interoperable with third-party devices
- Capable of adapting to any communications environment, switching seamlessly between network providers and technologies to ensure the streaming of real-time data

In many situations, limitations in communications networks can prevent access for those with the most operational need.

Conventional video codecs are not designed for transmission over low bandwidth and constrained networks so typically image break-up or delay renders video feeds unusable.

Our world-leading EdgeVis Live technology offers real-time video streaming with none of these issues.

An aircraft's EO sensor information can be accessed by installing a TVI codec at the other end of a COFDM downlink, close to strategically placed receiving stations on the ground.

So mobile units and those in command positions can view reliable, secure real-time video simultaneously.

EDGEVIS™ Live
Powered by TVI

SURVEILLANCE | SECURITY | SAFETY

SAFER.
STRONGER.
MORE SECURE.

EDGE VIS™ Live
Powered by TVI

Our solution was specifically developed to overcome the problems of streaming over low bandwidth wireless networks, and will deliver usable and continuous video over bandwidths as low as 9kbps.

Areas of particular interest can be examined more closely by downloading full resolution images.

Remote access to virtual pan/tilt/zoom features provides operatives with the ability to focus in and retrieve critical details – despite limited bandwidths.

So ground troops and central command can obtain more detailed reconnaissance of enemy military installations, whilst still viewing live video, all at low bandwidths.

This aerial view can be distributed as required and integrated into existing video management systems, offering performance, simplicity and operational flexibility in the most hostile environments.

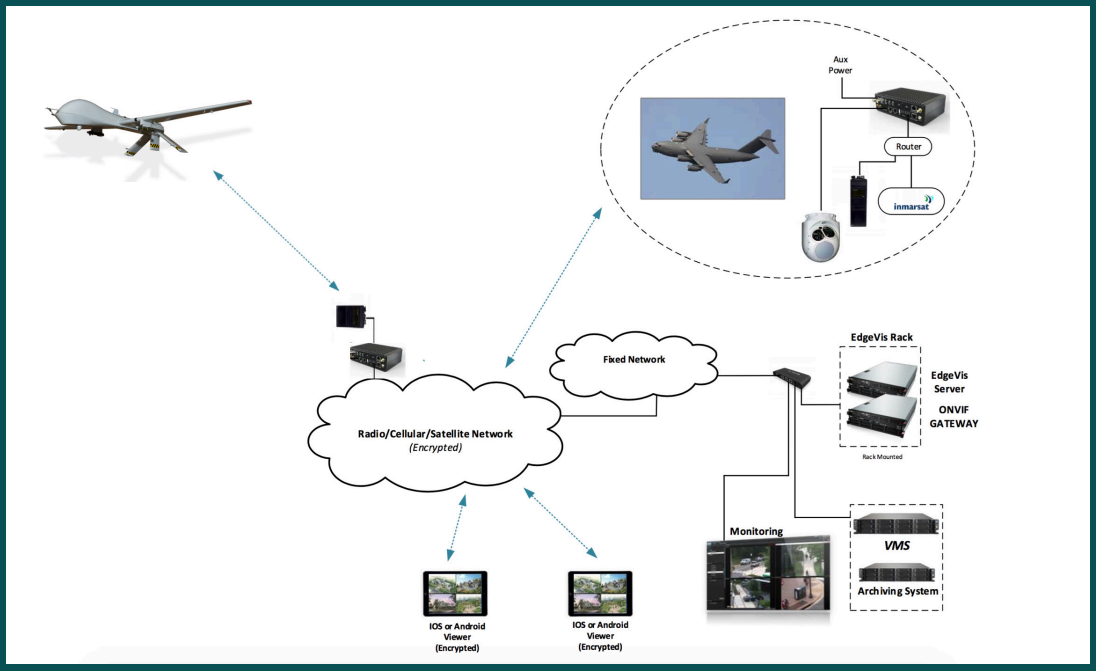
Key operational specifications

Video supported:	1920x1080p at up to 5fps (streaming) and up to 30fps (local archiving)
Surveillance modes:	Real-time streaming or archive retrieval, TVI full res retrieval, TVI virtual PTZ
Communications:	Cellular (GPRS/EDGE/UMTS/HSPA+/LTE), satellite
Security:	AES-256 (streaming), AES-128 encrypted (archive)

What is in the kit?

Each kit includes TVI surveillance distribution hub and peripherals. The downlink kit also includes an airborne satellite terminal. Options include satellite comms modules, camera modules and monitoring and control components.

KIT:	**Aircraft and UAV Surveillance Distribution Kit (AAS-AUSD)**
TVI Surveillance Hub:	HD-S600
Storage:	2x64GB Micro SD Cards
Peripherals:	Ethernet cables, power supply, Wi-Fi and GSM antennas
KIT:	**Aircraft and UAV Surveillance Downlink Kit (AAS-AUDL)**
TVI Surveillance Hub:	Hawkeye (airframe certified)
Communications:	Immarsat airborne satellite system
Peripherals:	Satellite cable equipment
COMPONENT:	**Command Monitoring and Control (D-CMC)**
Devices:	Ruggedised laptop or server unit (Windows)
Connectivity:	HSUPA modem with antenna kit
Software:	Viewing and configuration software TVI Server (with license pack)
COMPONENT:	**Mobile Monitoring and Control (D-MMC)**
Devices:	Ruggedised tablet or handset (Windows/Android)
Software:	Mobile Viewer, Mobile Encoder (optional)



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Contact Digital Barriers or your local reseller for further details on our solutions

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