

HLS / Defense Drones Case Study

Replacing unprotected live video transmission with reliable video links for Drones

VideoFlow enables drone manufacturers and users to Replace unprotected Transmission with Reliable IP based video transmission Solution

Live video distribution powered by VideoFlow's unique video transmission technology for drones is used for defense and homeland security and tailored to meet the demands of surveillance, reconnaissance, and tactical operations.

Real-Time Transmission

Low Latency: Critical for live monitoring and decision-making in dynamic environments.

Secure Data Links: Encrypted transmissions to prevent interception.

Multi-channel Streaming: Allows simultaneous feeds (e.g., visible spectrum and thermal).

Long-Range Capabilities

Extended Transmission Range: Enables video feeds over tens of kilometers via radio or satellite communication.

BLOS (Beyond Line of Sight): Refers to operations where the drone or UAS is beyond any direct line-of-sight communication between the operator and the vehicle. This includes obstacles blocking the view, such as mountains, buildings, or terrain.

Stability and Quality

Image Stabilization: Stable / Smoother video.

High Frame Rates: For smooth playback during fast movements (e.g., 60 fps or higher).

Anti-hack Technology: Third party can't stream different video.

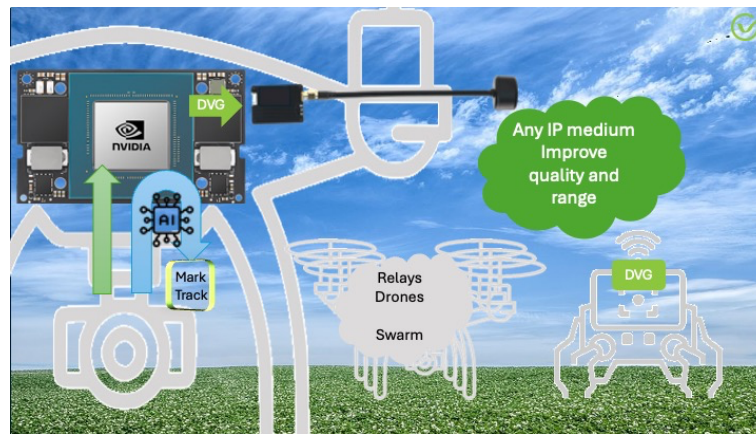
Compact Data for Bandwidth Efficiency

Video Compression: H.265 (HEVC) and H.264 codecs for reduced bandwidth usage without compromising quality.

Adaptive Streaming: Adjusts video resolution and quality based on network conditions.

Use Cases in Defense/Home Security

- **Surveillance** – Perimeter security and monitoring high-risk areas.
- **Reconnaissance** - Gathering intelligence in inaccessible regions.
- **Search and Rescue (SAR)** - Locating missing persons or assets.
- **Disaster Response** - Assessing damage and coordinating relief efforts.
- **Crowd Monitoring** - Identifying threats in large gatherings or protests.
- **Real-time Monitoring** – Gas \ oil \ water real-time pipes monitoring and leak locating.



About VideoFlow

VideoFlow is a pioneer in reliable live video distribution solutions provider. Since 2010, VideoFlow's the Emmy awarded technology is in use by tier 1 broadcasters and security organizations worldwide.