

## Empower Unmanned Aerial Vehicles (UAV) and Unmanned Ground Systems (UGS) to transform law enforcement operations

Elsight's Halo connectivity platform provides secured, reliable, and continuous communications to ensure mission completion of drones and other unmanned systems. By aggregating cellular, satellite and RF communications into a bonded pipe, the Halo enables uninterrupted high-bandwidth data transmission for unmanned missions beyond the visual line of sight (BLVOS/NLOS). With multi-link bonded communications, the Halo allows for a wide range of safer and more successful law enforcement missions propelled by drones and other unmanned systems. It also enables one operator to manage many drones, robotic or autonomous systems.

#### Enhanced situational awareness and risk-free monitoring in BVLOS/NLOS conditions

UAVs and UGSs, such as drones and robots, have emerged as indispensable assets for law enforcement agencies worldwide, extending operational capabilities, lowering risk to personnel, and expediting efficient responses. However, an effective non-line-of sight UAV/drone operation relies on secure, uninterrupted communications for continuous data flow between drones and the command center. Halo's lightweight and small footprint module is quick to set up during emergencies or in areas without infrastructure.



### Elsight empowers law enforcement/first responder teams with:



## Real-time and accurate situational awareness

Equip law enforcement personnel with live information that is crucial for emergency decision-making, strategic planning, and executing complex missions in crowded urban environments or outdoor difficult terrain.



#### Prioritized data type

Data prioritization (video, C2, or telemetry) can be easily configured to align with operational needs, ensuring the transmission of the most critical data



#### Risk-free monitoring

Long-range visual monitoring in challenging environments to capture visual evidence of specific targets, thereby gaining a strategic advantage.



#### Cyber secure

Multi-link cellular connectivity to avoid jamming. Data security packet splitting mechanism. Encryption up to AES-256-CBC.



#### Rapid deployment

Facilitate quick operational readiness, leveraging Halo's portable, small SWaP (size, weight, and power) footprint. On the fly, first responders can deploy a drone or other unmanned systems and benefit from extended visibility.



## High-bandwidth transmission

Send high bandwidth video confidently for accurate real-time information.

# Ensuring BVLOS (Beyond Visual Line of Sight) communication via multi-link connectivity



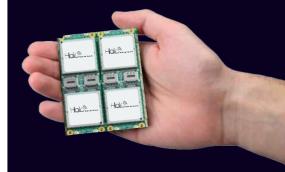
Boxed Halo

Elsight's Halo is an Al-powered connectivity solution for UAVs/UGSs that encrypts and aggregates multiple communication links (LTE, 5G, SatCom, and proprietary RF) into a secure and robust pipeline, ensuring unparalleled connection reliability for BVLOS / NLOS operations.

Halo employs advanced encryption and data-splitting to protect sensitive information from cyber threats, maintaining the integrity of law enforcement communication. The cybersecure solution splits all data forms - video, telemetry, and sensor data - into AES-256-CBC encrypted packets. Secure VPN tunneling delivers the encrypted data stream via the optimal link or links to the AllSight management platform (cloud-based or on-prem), where it is decrypted and recombined.

Leveraging an exceptionally small SWaP (size, weight, and power) footprint, Halo offers seamless integration with any UAV or drone model and size, ensuring full redundancy, high bandwidth, low latency, high security, and overall operational safety without sacrificing speed, weight or power. The compact, lightweight design is also suited for rapid deployment across various scenarios.

DFR teams can gather aerial-level situational awareness for better informed tactical decisions. Elsight's Halo assures instant, uninterrupted data for life-saving real-time intelligence.





#### **SWAT Teams**

Provides covert surveillance for tactical operations, counter-terrorism, vehicle pursuits, shootouts, and hostage-taking.



#### **Event Management**

Identifies patterns and problems during protests, gatherings, and large events to manage incidence response with precision accuracy.



#### **Border Control**

Tracks to swiftly identify and respond to illegal border crossings and criminal operations.



#### Search & Rescue Teams

Identifies inaccessible, rugged terrain or dangerous areas during post-earthquake or in other natural disasters for efficient disaster assessment, victim rescue, and overall management.



#### **Firefighters**

Locates entrance and exit points, burn spots, and people for effective and safer firefighting.



#### **Emergency Response**

Enables almost-instant aerial incident surveillance during emergency call response.



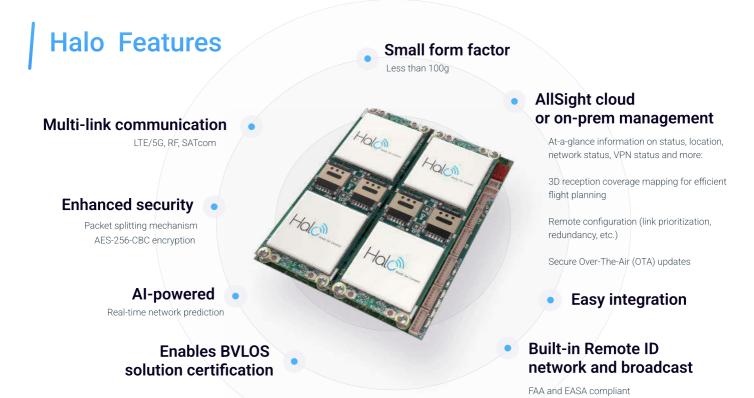
#### **Crash And Crime**

Scene documentation to expedite and enhance investigative processes without compromising critical data.



#### Traffic Monitoring

On major roads or intersections to direct heavy traffic or in a crisis.



Ethernet	2 Ports of 1 GB
USB	1 x USB 2.0 1 x MICRO USB for debug (internal)
WiFi & Bluetooth*  *option to remove	Dual Band WiFi (2.4/5 GHz) 802.11 a/b/g/n/ac BT 2.1 +EDR, BT3.0, BT 4.2 (BLE)
Cellular	Embedded 5G/4G LTE/3G bands depending on the region
Serial	2 x RS232/422/485 1 x CAN BUS 1 X UART
Positioning Systems Supported	GPS   GLONASS   Galileo   BeiDou
Data Security	Data Security Packet splitting mechanism Encryption up to AES-256-CBC
Advanced Communication	AI - Based VPN: OpenVPN L2/3
<b>Environmental Conditions</b>	Operating: -10°C to 75 °C
Power Input	DC 9V - 30V
Power Consumption	6.5W (Avg.), 10W (Max)

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