



ELEVATED SITUATIONAL AWARENESS

NO PILOTING REQUIRED



Made for   



Single-Button
Operation



Autonomous
Flight



24+ Hour
Flight Time



IP55 All-Weather
Rating



4G LTE Video
Streaming

A Step Towards the Future of Federal Policing

Introducing the Fotokite Sigma, the ultimate solution for aerial situational awareness. The Fotokite Sigma is an innovative and versatile tethered drone system that provides a unique and effective way to gather real-time aerial intelligence. With its innovative and versatile design this is a powerful tool designed to provide reliable and secure aerial situational awareness, making it an ideal solution for a variety of federal applications, including border security, disaster response, and law enforcement.

Monitor areas for situational awareness with unlimited endurance and no chance of jamming

- Tactical field areas
- Reconnaissance missions
- Can be mounted on vehicles and vessels

Border Control

- Wide-perimeter view
- High-quality real-time video and data to monitor border activity
- Thermal camera for night operations and searches
- At critical points or on moving platforms (in development)
- Built to withstand harsh weather conditions, making it suitable for use in extreme environments

Tactical Communications

- Increase range and connectivity of a local communication network
- Variable antenna heights
- Real-time data sharing
- Interoperability with the Sigma’s air surveillance and ground-based communications
- Reliable and secure aerial situational awareness
- Built to withstand harsh weather conditions, making it suitable for use in extreme environments



Specifications

Flight Time	24 hours continuous.
Safety & Regulations Compliant	No piloting necessary; single button launch and land, fully autonomous flight.
Weather Rating	IP55 Environmental rating, operate in rain, snow, and wind. Maximum Operating Temperature: 14°F to 104°F.
Range	Max height of 150 ft (45 m) from the Ground Station.
RGB Camera	Low-light RGB Camera resolution: 12 MP / 32x Zoom (Blended 10x Optical + Digital Zoom, 0.5x to 16x). RGB stream resolution of 1080p (1920 x 1080) / 30 fps.
Thermal Camera	Radiometric Thermal Camera resolution of 240p (320 x 240) / 27 fps. Measures absolute temperature from -40°F to 752°F (-40°C to 400°C) , accuracy ± 5%.
LTE Modem & Video Streaming	Ethernet + WPA2 encrypted WiFi access point for live video streaming, plus integrated LTE Modem to stream live video remotely for mutual aid and remote incident command.
Flight Control	Fotokite Autopilot with no GPS dependency.
Kite	2.6 lbs (1.2 kg) Take-Off weight, weather sealed Carbon fiber & advanced composites.
Ground Station	20 lbs (9 kg), 19.85 x 13.85 x 9.05 in (504 x 352 x 230 mm).

Configurations



Rooftop Box

Fotokite’s flagship configuration, enabling elevated situational awareness immediately and completely hands-free. Designed for integration into SUV and heavy apparatus vehicle classes.



Transport Case

Allows the use of the Fotokite Sigma interchangeably between vehicles and offers incident response scene flexibility when deploying the system.



Tray Mount

Allows the close integration of Fotokite systems into the side compartments of any apparatus.