



# Multi-Sensor, Wide-Area Persistent Surveillance Systems

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National Defense  
Public Safety and Border Security  
Humanitarian Assistance

## ISR Systems and Solutions

Logos Technologies offers a broad range of wide-area persistent surveillance (WAPS) systems for a variety of mission sets. Each system provides a comprehensive solution that makes it possible to observe, monitor, and review the activities of an entire city-sized area, day and night, from a diversity of platforms, including aerostats and manned and unmanned aircraft.

## Systems and Solutions Include:

- Full-field imaging and archiving
- Real-time mover tracking
- Server in the sky
- Multi-source data conditioning
- Flexible and low size, weight, and power (SWaP)
- Ground control/analysis equipment
- Portable, remote receiving stations
- CMMI and Agile software methodology

### Long-Endurance, Stationary Surveillance Missions

Kestrel Block II (EO/IR)



**Wide-Area Persistent Surveillance Sensor for Aerostats** – Kestrel provides 360-degree, day-night WAPS of a city-sized area and works in conjunction with high-resolution, full-motion video sensors to deliver a precise, penetrating look at target areas.

Simera (EO)



**Lightweight, Wide-Area Persistent Surveillance Sensor for Aerostats** – Simera offers city-sized WAPS in a lightweight package. Weighing only 40 pounds, this sensor provides 360-degree daylight surveillance and is easily carried on tactical aerostats.

StratoWAAS (In Development)



**High-Altitude, Long-Endurance, Wide-Area Airborne Surveillance** – StratoWAAS delivers multispectral, wide-area surveillance capabilities from an altitude of up to 80,000 feet, allowing it to stay aloft uninterrupted for weeks and even months at a time.



aerostat



day



night



## Location-Flexible Surveillance Missions

Our manned and unmanned aircraft-mounted systems include:

- Onboard, high-speed edge processing
- Real-time access to live and recorded imagery
- Rapid, interchangeable mounting capability
- Lightweight configuration for easy Group 3 UAS integration

## Platform-Flexible Systems

### RedKite Pod (EO)



**Powerful Wide-Area Surveillance in a Small, Adaptable Pod** – The RedKite Pod offers a highly effective electro-optical wide-area motion imagery system in a small lightweight pod, easily affixed to a variety of manned and unmanned platforms.

### BlackKite Pod (IR)



**Powerful IR Wide-Area Surveillance in a Small, Adaptable Pod** – The BlackKite Pod delivers mid-wave infrared wide-area motion imagery in a small lightweight pod that is platform-flexible, with mounting capability for both manned and unmanned platforms.

### Multi-Modal Sensor Pod (MMSP)



**Platform-Flexible, High-Performance Multi-Sensor System in a Compact Pod** – The Multi-Modal Sensor Pod delivers both wide-area and high-resolution motion imagery, plus a third modality, such as hyperspectral or LIDAR, in a standalone podded system for rapid deployment on a wide range of platforms.



## Systems for the Insitu Integrator™

### RedKite-I (EO)



**Wide-Area Surveillance System for the Insitu Integrator™** – RedKite-I offers the same powerful electro-optical wide-area motion imagery system as our podded version, configured to fit inside the payload bay of the Insitu Integrator.

### BlackKite-I (IR)

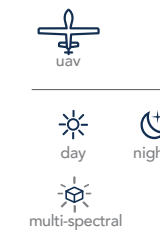


**IR Wide-Area Surveillance System for the Insitu Integrator™** – Offering the same superb capabilities as the podded system, BlackKite-I provides powerful IR wide-area surveillance from the payload bay of the Insitu Integrator.

### Sea Eagle (In Development)



**Wide-Area Shallow Water Mine Detection System** – Configured to fit in the payload bay of tactical UAVs, such as the Insitu Integrator, Sea Eagle provides wide-area optical sensing for shallow water mine detection. It can also be configured to fit into a platform-flexible pod.



## Large Data Processing

### Multi-Modal Edge Processor



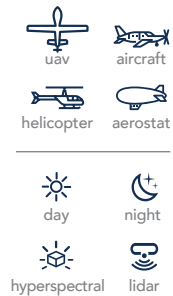
**Processing, Exploitation, and Dissemination with Ultra-Low SWaP** – Designed for ultra-low SWaP needs, the Multi-Modal Edge Processor ingests terabytes of data from multiple sensor sources and provides processing, exploitation, and dissemination in real time.

## Hostile Fire Detection

### Serenity



**Mission-Ready Dual Sensor System to Detect and Locate Enemy Fire** – Serenity provides reliable, actionable knowledge to ground troops under fire. Dual sensors, visual and acoustic, capture the signature of hostile fire and deliver precise source coordinates.



## Support Services

## Data Processing

### *Flexible and Robust Processing Power for Faster Exploitation*

Logos provides both onboard and ground-based advanced processing solutions that deliver rapid access to both real-time and forensic data. Our proven systems ingest and normalize large data sets from disparate collection sources, generate geospatial and temporal data tags, and correlate the data into one common operating picture. Ingestion rates include up to 1 billion pixels, 2 million spectra, and 6 Billion points per second.

## Full-Spectrum Mission Support

### *Supplying and Training Analysts to Deliver the Complete Intelligence Picture*

Logos analysts and operators are deployed worldwide to help evaluate, analyze, and correlate multiple-source data sets. They are trained to build a comprehensive intelligence picture by monitoring areas of interest, identifying patterns, and assessing risks and threats. Logos training also equips deployed personnel with advanced software and hardware knowledge and a solid understanding of payload optics and system electronics.

## Customizable Solutions

### *Innovative ISR Solutions for Specific Mission Requirements*

Logos conducts advanced research and development (R&D) and delivers customized solutions that exceed customer expectations, all within an efficient timeline. As a solutions-oriented provider, Logos offers demonstrated expertise for technology development and provides a wide range of support services.



# Wide-Area Persistent Surveillance Operations and Mission Sets

## National Defense

- Force protection
- Base/camp/port defense
- Operational surveillance
- Reconnaissance and overwatch
- Pattern-of-life analysis
- Hostile act forensics

## Public Safety and Border Security

- Critical infrastructure protection
- Border surveillance and security
- Law enforcement and smart policing
- Event security
- Public safety
- Aerial patrol
- Incident investigation

## Humanitarian Assistance

- Emergency management
- Large-scale accident response
- Natural disaster response
- Wildfire detection and control
- Refugee and IDP camp security
- Wildlife conservation
- Remedial activity verification

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### About Logos Technologies LLC

Founded in 1996, Logos Technologies LLC is a diversified science, engineering and technology company specializing in the fields of advanced sensors, wide-area motion imagery, advanced analytics and processing of large, multisource datasets. Logos serves government customers, including the Department of Defense, Intelligence Community and Department of Homeland Security, as well as a range of customers in commercial and international markets. Learn more at: [www.logos-technologies.com](http://www.logos-technologies.com)

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