Observe activities through multiple data sources. Learn through context and evaluation. Act with understanding and confidence.

Adaptability and flexibility are the cornerstones of Logos’ approach to system development. Since the inception of the original WAPS, Constant Hawk, Logos has focused on creating systems to meet specific mission needs. As operation requirements shift, Logos can rapidly adapt, reconfigure, and miniaturize systems to fit any platform and mission requirement.

Logos systems reach beyond sensors to include a full range of processing, visualization, and analysis tools to quickly understand when, where, and why an action happened. Logos, activity-based analytics (ABA) experience allows for analysis of every variable available. Logos fully-trained, experienced operators and analysts work in conjunction with automated tools to provide validated, actionable knowledge, quickly and reliably.

Logos Technologies systems and solutions include:

**Sensor Systems and Platforms**
- Kestrel
- Simera
- Hermes
- Redbee
- Serenity
- Skua

**Data Processing**
- Full-field imaging and archiving
- Real-time mover tracking
- Server in the sky
- Multi-source data conditioning
- Flexible Size, Weight, and Power (SWaP)
- Ground receive station and portable remote video terminals
- CMMI and Agile methodology

**Full Spectrum Mission Support**
- Operations
- Analysis tool development
- Analyst support
- Logistics

About Logos Technologies
Logos Technologies LLC is a diversified science, technology, operations, and defense company that delivers innovative, mission-critical solutions. Core competencies include: sensor systems, large data management, advanced analytics, cyber operations, platform development, and bio-based chemicals. Logos serves government customers including the Department of Defense, Department of Energy, and Department of Homeland Security, as well as a range of customers in commercial and international markets.

Learn more at: www.logos-technologies.com

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Multi-Sensor, Wide-Area Persistent Surveillance


Actionable knowledge at the speed of mission is key to operational success. Logos Technologies provides a wide range of multi-sensor, wide-area persistent surveillance systems (WAPS) to fit specific mission needs. Logos Technologies systems provide a comprehensive solution that makes it possible to observe activities from the perspectives of multiple data sources, learn and identify patterns and history of events leading to current activity, and act with the confidence that comes with cross-validated, actionable knowledge.

Logos’ wide-area sensors work in conjunction with other data sources to deliver a precise, penetrating look at target areas. Logos observes day and night from a variety of platforms, including aerostats, aircraft, ships, towers, and parafoils. The ability to store and retrieve imagery collected for over 30 days enables Logos to learn from monitored areas of interest, identify patterns, and assess risks and threats.

Logos systems are fully designed to turn an inclusive collection of multi-source data into a complete picture and provide actionable information.
Observe, Orient, Decide and Act with Logos Technologies’ Systems and Solutions

SENSOR SYSTEMS

Kastel
Wide-Area Persistent Surveillance Sensor for Aerostats
Kastel provides 360 degrees, 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
Lightweight, Wide-Area Persistent Surveillance Sensor for Aerostats
Simera offers 360 degrees, city-sized WAPS in a lightweight package. Weighing only 40 pounds in its daytime configuration, this exportable sensor provides nearly the same coverage area as its Kastel predecessor.

Hermes
Platform-Agnostic, High Performance Multi-Sensor System in a Compact Pod
Hermes delivers highly capable, WAPS in a stand-alone, high-performance podded multi-sensor system available for rapid deployment on a wide range of platforms.

Redkite
Powerful Wide-Area Surveillance System in Small, Adaptable Pod
Redkite offers the best of both worlds: a highly effective WAPS system in an ultra-small and ultra-lightweight pod easily affixed to a variety of manned and unmanned platforms.

Serenity
Mission-Ready Dual Sensor System to Detect and Locate Enemy Fire
Serenity provides reliable, actionable knowledge to ground troops under fire.

DATA PROCESSING

Flexible and Robust Processing Power for Faster Exploitation
Logos provides both onboard and ground-based data processing to support specific missions. Logos processing offers near real-time, full-field imagery and motion tracking and supports advanced compression techniques to allow long-term information retrieval in minimal storage. It fully allows data collected within the immense coverage area. Logos systems analyze so-called ‘watch boxes’ that alert when motion is detected. Logos also allows cross-cuing to other complimentary collection systems, such as Spotlight systems and UAS.

A robust processing power and advanced analytics, Logos systems can ingest and normalize large data sets from a wide multitude of disparate collection sources and deliver rapidly accessible near real-time and forensic data analysis. Logos registration and rendering algorithms provide geospatial and temporal data, yielding industry-leading geolocation allowing for near real-time search as well as cross-validated pattern-of-life analysis and rapid correlation processing with data from other a multitude of collection sources.

Additionally, Logos processing offers algorithm expertise to devise novel image and signal processing algorithms and successfully implement them to meet product goals.

FULL SPECTRUM MISSION SUPPORT

Supplying and Training Analysts to Deliver the Complete Intelligence Story
Logos maximizes the value of disparate data sources by developing and expanding upon ADA tactics, techniques, and procedures (TTP), and methodologies. Logos Advanced Analytics enables the cross indexing and integration of complex data to create validated and actionable information for warfighters, intelligence officers, law enforcement, policy makers, and private firms.

Logos analysts, who deploy where needed around the world, are trained to build a comprehensive intelligence picture by using ADA methods and tools to monitor areas of interest, identify patterns, and assess risks and threats. This advanced training can be also be developed and implemented for analysts encountering any type of complex and varying dataset. In support of analyst workflows, Logos also offers automated processing solutions to increase speed and accuracy of analysis.

Operations Support

Supporting Mission Critical Objectives Worldwide
From daily operations to threat response, Logos provides critical mission support. Military commanders use Logos products and services to prepare field mission strategies, assess risk and threats, and collect valuable intelligence. Logos combines the collection and analysis of WAPS, signature collection imagery and multiple data sources in enable commanders to detect, monitor, and respond to threats and achieve mission objectives.

Logos operates — almost all of who come from a military discipline with operational or intelligence expertise — are deployed worldwide to help evaluate, analyze, and fuse multiple source data sets. Logos training equips deployed personnel with advanced understanding of Linux and Windows operating systems, a solid understanding of packed optics and electronics, and a thorough understanding of sensor-specific software and applications. In addtion to applying their technical knowledge, operators also act as liaisons between continental United States (CONUS) agencies and the outside the continental US (OCONUS) teams.

Logistics

Efficiently and Effectively Moving Equipment and Personnel
Logos Logistics works directly with military and contracting agencies to coordinate, plan and support cargo and personnel movement within mission areas. In support of program operations, the logistics team also arranges and oversees the movement of equipment and personnel to OCONUS logistics hubs and ensures compliance with the International Traffic in Arms Regulations (ITAR) for export and import shipments.

Customizable Solutions

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

Logos scientists and engineers obtain user/operator feedback to fine tune product performance, improve ease of use, and enhance operations. Among the best in the world, Logos scientists lead the way in concept development and design execution for government agencies and commercial companies.