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
- Redkite
- 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

Observe. Orient. Decide. Act.

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 perspective 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.

SENSOR SYSTEMS

Kestrel

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

Lightweight, Wide-Area Persistent Surveillance Sensor for Aerostats

Simera offers 360 degree, 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 Kestrel 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. Dual sensors, visual and acoustic, capture the signature of hostile fire and deliver precise source coordinates.

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. To fully utilize data collected within the immense coverage area, Logos systems enable user-defined "watch boxes" that alert when motion is detected. Logos also allows cross-cueing to other complementary collection systems, such as spotter cameras and UAS.

With 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 generate geospatial and temporal data tags, yielding industry leading geolocation allowing for near real-time searches 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

Logos Advanced Analytics

Supplying and Training Analysts to Deliver the Complete Intelligence Story

Logos maximizes the value of disparate data sources by developing and expanding upon ABA tactics, techniques, and procedures (TTPs), 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 ABA methods and tools to monitor areas of interest, identify patterns, and assess risks and threats. This advanced training can 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 risks and threats, and collect valuable intelligence. Logos combines the collection and analysis of WAPS, high-resolution camera imagery, and multiple data sources to enable commanders to detect, monitor, and respond to threats and achieve mission objectives.

Logos operators — almost all of who come from a military discipline with operational or intelligence experience – are deployed worldwide to help evaluate, analyze, and fuse multiple source data sets. Logos training equips deployed personnel with advanced knowledge of Linux and Windows operating systems, a solid understanding of payload optics and electronics, and a thorough understanding of sensor specific software and applications. In addition to applying their technical knowledge, operators also act as liaisons between continental United States (CONUS) engineers 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 to/from/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.

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