Simera

Lightweight, Wide-Area Persistent Surveillance Sensor for Aerostats

Simera provides 360 degree, wide-area persistent surveillance (WAPS) and works in conjunction with a high resolution, full-motion video sensor to deliver a precise, penetrating look at target areas. Imagery from full field of view is available in near real-time and from archives. Simera is a high-performance, adaptable system that offers the reliable real-time and forensic data needed to make critical assessments and take decisive action in the field.

Specifications

General Information

Sensor theory of operation	A series of pictures are captured and stitched together, providing full scene imagery at 3 Hz
System security	Able to be DIACAP certified
Operator training period	1 Week

Performance

Area of coverage	95 km²	**Tether transport layer**	Single mode fiber
GSD	0.2-0.8 m @ 1000-5500m distance, 1000 ft altitude	**Bandwidth down tether**	6 Gbps
Location accuracy	Better than 50m, geolocation capability	**Remote operation capable**	Yes
Altitude	> 500 m	**Cross-cueing**	Yes
Angular coverage	360 degrees	**Number of clients/system**	> 2
Digital zoom	Yes	**Multiple viewer windows**	Yes
Refresh rate	3 Hz	**Days of imagery storage**	3-30 Days
Spectrum	Monochrome, color optional		

Size, Weight, and Power

Sensor size	22" long, 19" wide, 25" tall	**GCS size**	16 u standard rack depth
Sensor weight	40 pounds (18 kg)	**GCS weight**	350 pounds
Sensor power	150 W	**GCS power**	< 2kW
Sensor voltage	28 VDC		

Operations Support	Full-time operation, maintenance, and repair for deployed sites. Analysis and generation of intelligence products by cleared, former military personnel with theater experience. Training available. Warranty support and 24/7 help-desk for non-contractor supported installations.
Variants	Tower, pole, or mast-mounted configurations are available. A Navy-funded shipboard mast-mounted configuration is an example of a variant.

Simera

Lightweight, Wide-Area Persistent Surveillance Sensor for Aerostats

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. Customers include government agencies and commercial companies.

Learn more at: www.logos-technologies.com

2701 Prosperity Avenue, Suite 400, Fairfax, VA 22031 | T +1.703.584.5725

LOGOS®
Technologies
The Art of Science®