

Evolved from Logos Technology's legacy of groundbreaking wide-area motion imagery (WAMI) sensors, Simera EO/IR delivers best in class performance at a fraction of the size and weight of comparable systems.

Full 360 degree day/night imagery empowers the user with uninterrupted near real-time monitoring, while a customizable archive provides forensic data needed to make critical assessments and take decisive action in the field. Alone, or working in conjunction with a high resolution full-motion video sensor, Simera EO/IR provides unparalleled surveillance capabilities.



Specifications

General Information

Sensor theory of operation	From an aerostat, a series of pictures are captured and stitched together providing a city-sized, 360 degree scene at 1 Hz. Imagery is archived for real-time forensics or advanced intelligence exploitation.
System security	System certified under multiple information assurance (IA) standards
Operator training period	2 weeks

Performance

Area of coverage	113 km ² at 3000' alt	Remote operation capable	Yes
Effective pixel count	8 cameras composing a 440 Mpx day/night mosaic	Cross-cueing	Yes
GSD at 3,000 ft agl	EO 35 cm at 3 km / 60 cm at 5 km IR 50 cm at 3 km / 90 cm at 5 km	Number of clients/system	3 with option for expansion
Digital zoom	Yes	Multiple viewer windows	Yes
Refresh rate	1 Hz	Days of imagery storage	3 days with option for expansion
Rendered image stability	< 1 pixel		

Size, Weight, and Power

Sensor size	22" long, 19" wide, 30" tall	GCS size	14 u standard rack depth
Sensor weight	Under 80 lbs	GCS weight	350 pounds
Sensor power	300 W	GCS power	< 2 kW
Sensor voltage	28 VDC		