

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.



General Information

- **Sensor theory of operation:** A series of pictures are captured and stitched together, providing full scene imagery. Imagery is archived for real-time forensics or advanced intelligence exploitation.
- **Operator training period:** 1 week

Performance

- **Area of coverage:** 95 sq km at 1,000 ft (300 m) AGL
- **Effective pixel count:** 13 cameras composing a 120 Mpx mosaic
- **GSD (at 3,000 ft/1000 m AGL):** 20 cm at 1 km / 80 cm at 5.5 km
- **Design operational altitude:** 500 ft (150 m) - 1,500 ft (450 m) AGL
- **Location accuracy:** > 50 m geolocation capability
- **Angular coverage:** 360 degrees
- **Rendered image stability:** < 1 pixel
- **Spectrum:** Monochrome, color optional
- **Digital zoom:** Yes
- **Refresh rate:** 3 Hz
- **Remote operation capable:** Yes
- **Cross-cueing:** Yes
- **Number of clients/system:** > 2
- **Multiple viewer windows:** Yes
- **Days of imagery storage:** 3 days, expandable to 30 days

Size, Weight, and Power

- **Sensor size:** 22 in (56 cm) L x 19 in (48 cm) W x 25 in (64 cm) H
- **Sensor weight:** 40 lbs (18 kg)
- **Sensor power:** 150 W
- **Sensor voltage:** 28 VDC
- **GCS size:** 16 u standard rack depth
- **GCS weight:** 350 lbs (159 kg)
- **GCS power:** < 2 kW

Options

- **Operations support:** Full-time operation, maintenance, and repair for deployed sites. Training, warranty support, and 24/7 help desk support available.

Defense

Homeland Security

Humanitarian Assistance

About Logos Technologies

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.

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