

Kestrel Block II

Day-Night, Lightweight Wide-Area Motion Imagery for Aerostats

The next evolution in wide-area motion imagery (WAMI) sensors, Logos Technologies' Kestrel Block II 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, Kestrel Block II provides unparalleled surveillance capabilities.

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:** 2 weeks

Performance

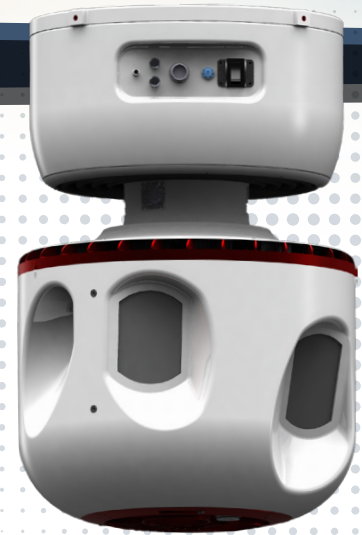
- **Area of coverage:** 113 sq km at 3,000 ft (1,000 m) AGL
- **Effective pixel count:** 8 cameras composing a 440 Mpx day/night mosaic
- **GSD (at 3,000 ft/1000 m) AGL:** EO 35 cm at 3 km / 60 cm at 5 km
IR 50 cm at 3 km / 90 cm at 5 km
- **Design operational altitude:** 1,000 - 5,000 ft (300 - 1,500 m) AGL
- **Location accuracy:** ~ 50 m geolocation capability
- **Angular coverage:** 360 degrees
- **Rendered image stability:** < 1 pixel
- **Spectrum:** EO - monochrome, IR - MWIR/LWIR
- **Digital zoom:** Yes
- **Refresh rate:** 1 Hz
- **Remote operation capable:** Yes
- **Cross-cueing:** Yes
- **Number of clients/system:** Up to 3 with option for expansion
- **Multiple viewer windows:** Yes
- **Days of imagery storage:** 3 days, expandable to 30 days

Size, Weight, and Power

- **Sensor size:** 18 in (46 cm) L x 18 in (46 cm) W x 27 in (69 cm) H
- **Sensor weight:** < 85 lbs (40 kg)
- **Sensor power:** 300 W
- **Sensor voltage:** 28 VDC
- **GCS size:** 16 – 27 u standard rack depth
- **GCS weight:** 350 lbs (159 kg)
- **GCS power:** ~ 2.5 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.

Learn more at:

www.logos-technologies.com

2701 Prosperity Avenue, Suite 400
Fairfax, Virginia 22031
+1.703.584.5725

