



# Kestrel Block II

## DAY-NIGHT, LIGHTWEIGHT WIDE-AREA MOTION IMAGERY FOR AEROSTATS



The next evolution in wide-area motion imagery (WAMI) sensors for aerostats, 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.

- **DEFENSE**
- **HOMELAND SECURITY**
- **HUMANITARIAN ASSISTANCE**

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### ► 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
- GSDs: EO - 35 cm at 3 km / 60 cm at 5 km at 3,000 ft (1,000 m) AGL  
IR - 50 cm at 3 km / 90 cm at 5 km at 3,000 ft (1,000 m) AGL
- 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: Yes
- Cross-cueing: Yes
- Number of Clients: 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 L x 18 in W x 27 in H (46 cm x 46 cm x 69 cm)
- 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 at deployed sites. Training, warranty support, and 24/7 help desk support available