



# RedKite-I Block II

## HIGH-RESOLUTION WIDE-AREA MOTION IMAGERY IN A GROUP 3 UAS



RedKite-I Block II is our lightweight, next-generation wide-area motion imagery (WAMI) system for the Insitu Integrator tactical unmanned aircraft system (UAS). RedKite-I Block II blends a proprietary state-of-the-art imaging engine and compact high-performance edge processor with advanced electro-optical cameras. In doing so, the RedKite-I Block II delivers impressive image quality and stability (National Imagery Interpretability Rating Scale 7+), making the classification of suspect vehicles and the detection and tracking of dismounts quicker and easier.

- DEFENSE
- LAW ENFORCEMENT
- BORDER SECURITY

### ▶ PERFORMANCE

- Operational Altitude: 5,000 ft - 15,000 ft (1,500 m - 4,000 m) AGL
- Areas of Coverage: 4.5 sq km at 5,000 ft (1,500 m) AGL  
16 sq km at 12,000 ft (3,700 m) AGL
- GSDs: 0.15 m at 5,000 ft (1,500 m) AGL  
0.3 m at 12,000 ft (3,700 m) AGL
- Camera: Monochrome CMOS (color optional)
- Imaging Modality: > 250 Mpx mosaic composite image
- Refresh Rate:  $\geq$  1 Hz for full persistent coverage area
- Cross-cueing: Yes
- Viewer Windows: Up to 10 unique streaming video windows
- Onboard Archive Length: > 4 hrs, expandable to 8 hrs
- GCS/SCS Archive Length: 100 hrs, expandable
- Imagery Transmission: Control centers, mobile devices
- Internal Processing: Compact embedded processing includes north-up rendering, real-time and DVR streaming, and full-mission storage

### ▶ PAYLOAD SIZE, WEIGHT, AND POWER

- Size: 41 in L x 12 in W x 8.5 in H (105 cm x 31 cm x 22 cm)
- Weight: < 28 lbs (13 kg)
- Power: < 300 W max
- Processing: Processing embedded in payload

### ▶ GROUND/SENSOR CONTROL STATION (GCS/SCS) SIZE, WEIGHT, AND POWER

- Sensor Control and Exploitation: Ground-based (transportable or fixed) and/or aircraft-based
- Components: Client, archive server, storage array, accessories
- GCS/SCS Size: 9 U, 30 in rack depth
- GCS/SCS Weight: < 250 lbs (115 kg) / Up to 500 lbs (227 kg) with cases
- GCS/SCS Power: < 1 KW, 100% duty cycle

### ▶ OPTIONAL SUPPORT

- Datalink: Internal datalink available, providing a fully integrated, single-LRU WAMI system with minimal resource requirements from the aircraft  
Ideal for UAS applications
- Operations Support: Full-time operation, maintenance, and repair at deployed sites  
Training, warranty support and 24/7 helpdesk support available

Logos Technologies LLC  
An Elbit Systems of America Company

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

[www.logos-technologies.com](http://www.logos-technologies.com)