



# RedKite-I

## POWERFUL WIDE-AREA MOTION IMAGERY FOR THE INSITU INTEGRATOR™



Adapted to the payload bay of the Insitu Integrator, RedKite-I combines the power of wide-area motion imagery (WAMI) with the flexibility of a small Group 3 UAS. RedKite-I transmits on demand, both real-time and forensic imagery to multiple users on the ground thanks to the system's unparalleled onboard processor.

- DEFENSE
- LAW ENFORCEMENT
- BORDER SECURITY

### ▶ PERFORMANCE

- Operational Altitude: 3,000 ft – 12,000 ft (1,000 – 4,000 m) AGL
- Areas of Coverage: 1 km diameter from 3,000 ft (1,000 m) AGL  
4 km diameter from 12,000 ft (4,000 m) AGL
- GSDs: 0.13 m at 3,000 ft (1,000 m) AGL  
0.5 m at 12,000 ft (4,000 m) AGL
- Camera: > 50 Mpx
- Refresh Rate: ≥ 2 Hz
- 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-like streaming, and full-mission storage
- Datalink: Internal datalink, providing a fully integrated single LRU

### ▶ PAYLOAD SIZE, WEIGHT, AND POWER

- Bay Size: 41 in L x 12 in W x 8 in H (105 cm x 31 cm x 21 cm)
- Bay Weight: < 25 lbs (11 kg)
- Bay Power: < 300 W (peak)
- 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

- Operations Support: Full-time operation, maintenance, and repair at deployed sites  
Training, warranty support and 24/7 helpdesk support available

***Integrator™ is a product of Insitu Inc.***

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