



BlackKite-I

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



The BlackKite-I infrared (IR) wide-area motion imagery (WAMI) system provides constant streams of geo-located real-time and forensic imagery for multiple users, all from the payload bay of the Insitu Integrator. Employing a midwave IR sensor, the BlackKite-I can monitor a city-sized area both day and night.

- DEFENSE
- LAW ENFORCEMENT
- BORDER SECURITY

▶ PERFORMANCE

- Operational Altitude: 5,000 ft – 12,000 ft (1,500 m – 4,000 m) AGL
- Areas of Coverage: 2.2 sq km at 5,000 ft (1,500 m) AGL
12.0 sq km at 12,000 ft (4,000 m) AGL
- GSDs: < 0.25 m at 5,000 ft (1,500 m) AGL
0.6 m at 12,000 ft (4,000 m) AGL
- Imaging Modality: 3 Mpx InSb MWIR 10 µm px realizing 54 Mpx composite image
- Refresh Rate: 1 Hz
- Cross-cueing: Yes
- Viewer Windows: Up to 10 unique streaming video windows
- Onboard Archive Length: ~ 5 hrs (4 TB drive), ~ 11 hrs (8 TB drive)
- GCS/SCS Archive Length: 160 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: < 28 lbs (13 kg)
- Bay Power: < 300 W max, < 250 W nominal
- 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 manned aircraft-based
- Components: Control server, client, archive server, storage array, UPS, accessories
- GCS/SCS Size: 8 U, 30 in rack depth
- GCS/SCS Weight: < 250 lbs (115 kg) / < 400 lbs (180 kg) with cases
- GCS/SCS Power: < 1 KW, 100% duty cycle

▶ OPTIONAL 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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