

Powerful IR 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.



Payload Size, Weight, and Power

- **Size:** 41 in (105 cm) L x 12 in (31 cm) W x 8.5 in (22 cm) H
- **Weight:** < 28 lbs (13 kg)
- **Power:** < 300 W max, < 250 W nominal
- **Processing:** Processing embedded in payload

Performance

- **Operational altitude:** 5,000 ft – 12,000 ft (1,500 – 4,000 m) AGL
- **Areas of coverage:** 3.0 sq km at 6,000 ft (2,000 m) AGL / 12.0 sq km at 12,000 ft (4,000 m) AGL
- **Refresh rate:** 1 Hz
- **Cross-cueing:** Yes
- **Viewer windows:** Multiple unique streaming video windows
- **Onboard archive length:** ~ 8 hrs, expandable
- **Transmission to mobile devices:** Yes
- **Internal processing:** Compact embedded processing includes north-up rendering, real-time and DVR-like streaming, and full-mission storage.

Camera Options

1 Mpx:

- **GSDs:** 0.3 m at 3,000 ft (1,000 m) AGL / 0.5 m at 6,000 ft (2,000 m) AGL / 1.2 m at 12,000 ft (4,000 m) AGL
- **Imaging modality:** MWIR 12/10 μ m px realizing 18 Mpx composite image
- **Detector size:** HgCdTe - 1280 x 720 px / T2SLS - 1280 x 1024 px / nBn 1280 x 1024 px

3 Mpx:

- **GSDs:** < 0.2 m at 3,000 ft (1,000 m) AGL / 0.3 m at 6,000 ft (2,000 m) AGL / 0.6 m at 12,000 ft (4,000 m) AGL
- **Imaging modality:** MWIR 10 μ m px realizing 54 Mpx composite image
- **Detector size:** InSb - 2048 x 1536 px

Ground Station Size, Weight, and Power

- **Size:** 43 in (109 cm) L x 27 in (69 cm) W x 27 in (69 cm) H, 15U rack space
- **Weight:** < 250 lbs (113 kg)
- **Power:** 1 KW
- **GCS archive length:** 100 hrs, expandable

Defense

Law Enforcement

Border Security

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.

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