



BlackKite Pod

POWERFUL INFRARED WIDE-AREA MOTION IMAGERY IN A LIGHTWEIGHT POD



BlackKite is an infrared (IR), wide-area motion imagery (WAMI) system capable of covering a city-sized area all at once, day and night, while fitting into a compact, lightweight, platform-flexible pod. Despite its small size, BlackKite transmits both real-time and forensic imagery, on demand, to multiple users on the ground thanks to the system's unparalleled onboard processor.

- 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: Onboard, 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

- Size: 40 in L x 12 in W x 11 in H (102 cm x 31 cm x 28 cm)
- Weight: ~ 38 lbs (17.2 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: 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

► OPTIONS

- Platform Compatibility: Fixed-wing, rotary-wing, UAS
- Mounting Options: Wing pylon, underbelly, gimbal mount adaptor
Easily installed and removed from the aircraft
- 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 help desk support available

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