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 – 15,000 ft (1,500 m – 4,500 m) AGL
• Areas of Coverage:	1.7 sq km at 5,000 ft (1,500 m) AGL
	12.0 sq km at 13,500 ft (4,000 m) AGL
• GSDs:	0.22 m at 5,000 ft (1,500 m) AGL
	0.6 m at 13,500 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

▶ 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:	Client, archive server, storage array, acessories
• 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

▶ 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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