



RedKite Pod

POWERFUL WIDE-AREA MOTION IMAGERY IN A LIGHTWEIGHT PLATFORM-FLEXIBLE POD



Redkite offers the best of both worlds: a highly effective, wide-area motion imagery (WAMI) system in a small, ultra-lightweight pod that easily mounts to a variety of manned and unmanned platforms. With advanced internal processing, RedKite is the smallest, and most power efficient WAMI system available.

- 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 (monochrome)
- 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: 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

- Pod Size: 34 in L x 12.2 in W x 10.6 in H (87 cm x 31 cm x 27 cm)
- Pod Weight: < 35 lbs (16 kg)
- Pod Power: < 300 W
- 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, archive storage, switch, accessories
- GCS/SCS Size: 8U, standard rack depth
- GCS/SCS Weight: < 250 lbs (115 kg) / < 400 lbs (180 kg) with cases
- GCS/SCS Power: 600 W

▶ 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 helpdesk support available

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