

RedKite[®]

Block II

Wide-Area Motion Imagery (WAMI) for Integrator

Easy-to-share actionable information
means better and faster decision-making



UNMANNED AIRCRAFT SYSTEMS



RedKite is a small electro-optical system capable of monitoring a city-sized area in real time. Simultaneously detects and tracks multiple geographically dispersed targets, allowing for in-flight forensic rewind and review.

KEY BENEFITS & FEATURES

Enables wide-area monitoring and search

Monitors and analyzes up to 10 mile area (16 km²) anywhere within line-of-sight range of the GCS.

Onboard data storage

Stores up to 8 hours of mission data on board the vehicle supporting examination of real-time or historical data.

Information sharing

Transmits imagery (chipouts) to handheld devices such as Android.

Cross cue

RedKite supports cross cueing to Integrator's primary FMV turret for higher resolution interrogation of subjects of interest.

Supports multiple operators

Supports multiple sensor operators with up to 10 video streams at once, each viewing independent streams. Geospatial and temporal bookmarking allows users to mark and share locations.

Automated detection alerts

User-defined "watchboxes" provide sensor operators with automated alerts when items of interest move in/out for real-time tracking.



1.3 MILLION
FLIGHT HOURS

50
GLOBAL SITES
OF OPERATION

MODULAR
FAMILY OF
SYSTEMS

SERVICES,
ACQUISITION
AND FMS

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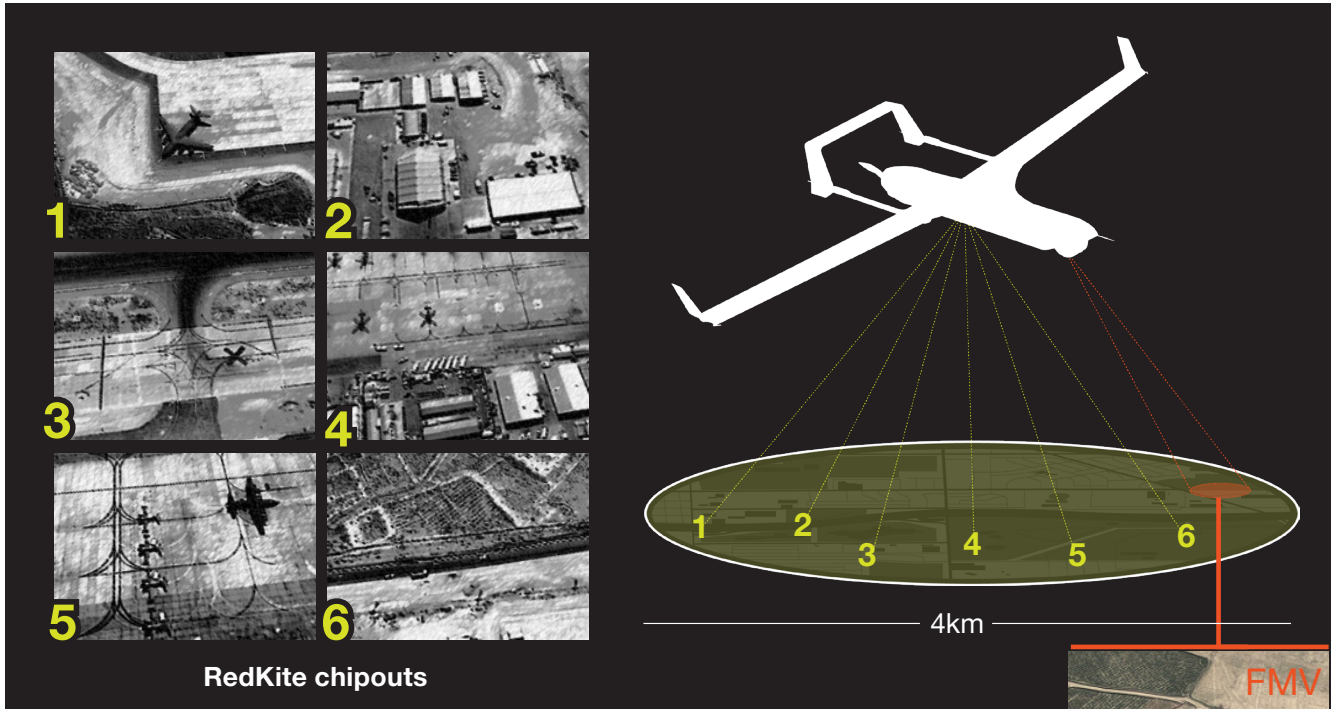
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Wide-Area Motion Imagery (WAMI) for Integrator

Cost-effective, rapidly deployable, reliable



SPECIFICATIONS



RedKite chipouts

Surveillance of 4km diameter area shows the video stream from Integrator's primary FMV turret and imagery (chipouts) of 6 locations bookmarked by RedKite. Chipouts can be viewed as tiles (shown) or each can be expanded to desired size.



Developed and produced by Logos Technologies.
Integrated and tested in collaboration between
Insitu and Logos Technologies.

- **Operational Altitude:**
5,000–15,000 ft / 1,500–4,500 m AGL
- **Area of coverage at 5000 ft / 1500 m AGL:**
1.3 NM² / 4.5 km² (2.4 km diameter)
- **Area of coverage at 12,000 ft / 3600 m AGL:**
5 NM² / 16 km² (4.5 km diameter)
- **Ground Sample Distance (GSD)**
at 5000 ft / 1500m AGL: 6 inches / 0.15m
- **GSD at 12,000 ft/ 4000 m AGL:**
12 inches / 0.3m
- **Camera:** Monochrome CMOS (250 megapixels)
- **Refresh rate:** 1 Hz
- **Cross-cueing:** Yes
- **Viewer windows:** Up to 10 unique streaming video windows
- **GCS/SCS Archive Length:** 100 hours, expandable
- **Onboard Archive Length:** > 4 hrs, expandable to 8 hrs
- **Transmission to mobile devices:** Yes
- **Compact embedded processing:** North-up rendering, real-time and DVR streaming and full-mission storage.
- **Internal data link:** Fully integrated, single Line Replaceable Unit (LRU)