RedKite®

Wide-Area Motion Imagery (WAMI) for Integrator

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

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A Boeing Company

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 areas of up to 2.5 miles (4 km) in diameter 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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RedKite®

Wide-Area Motion Imagery (WAMI) for Integrator

Cost-effective, rapidly deployable, reliable

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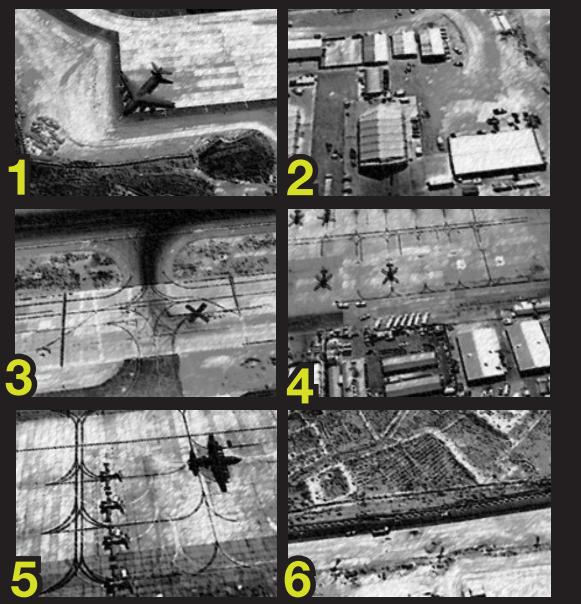
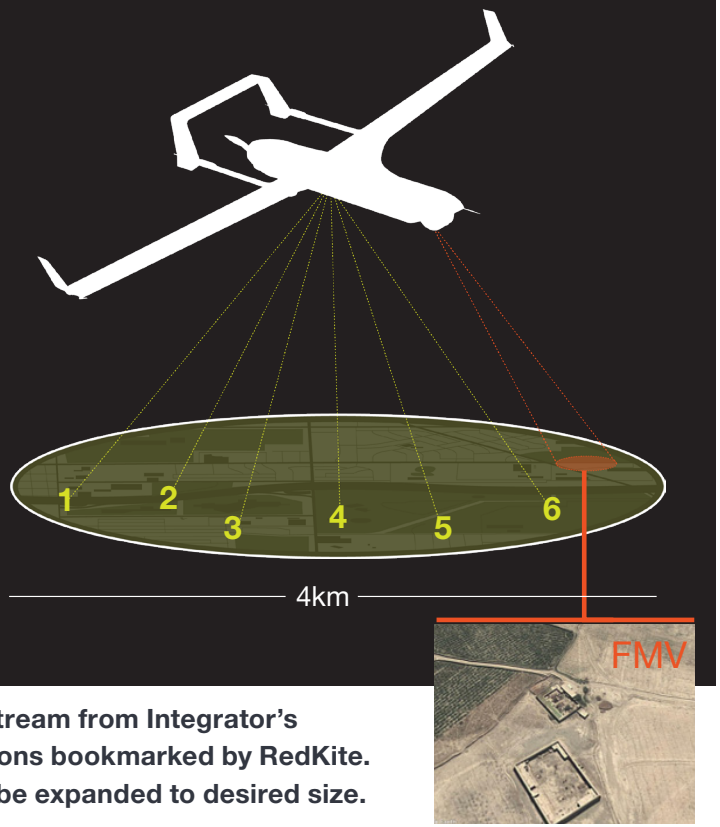


RedKite chipouts



Survellience 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.

SPECIFICATIONS

- **Operational altitude:** 3,000–12,000 ft / 1,000–4,000 m AGL
- **Area of coverage:** 1 km diameter from 3,000 ft / 1,000 m AGL; 4 km diameter from 12,000 ft / 4,000 m AGL
- **GSD:** 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
- **Refresh rate:** ≥ 2 Hz
- **Cross-cueing:** Yes
- **Viewer windows:** Up to 10 unique streaming video windows
- **GCS archive length:** 100 hrs, expandable to 200 hrs
- **Onboard archive length:** 8 hrs
- **Transmission to mobile devices:** Yes
- **Internal processing:** Compact embedded processing includes north-up rendering, real-time and DVR streaming and full-mission storage.
- **Data link:** Internal data link, providing a fully integrated, single LRU

LOGOS Technologies

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

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