



NIGHTWING

GUARDIAN ISR

Intelligence, Surveillance and Reconnaissance

Guardian ISR Integrates All Mission Platforms and Dismount Teams with Secure Communication, Actionable Information and Situational Awareness.

OVERVIEW

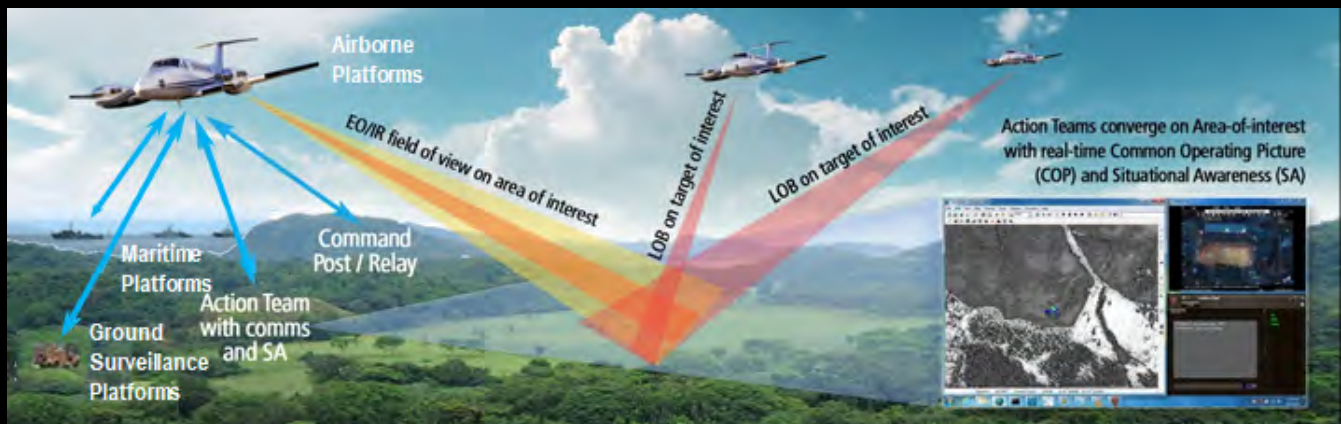
Guardian ISR systems provide real-time Situational Awareness (SA) capability to public safety and security agencies who must closely engage in dangerous activities. SA enables first responders, police, and military personnel to gain a complete understanding of their environment through real-time communication and visualization. The traditional means of team communication for such personnel is through push-to-talk radio. Guardian ISR enhances this important communications tool with secure enterprise-wide voice connectivity across all platforms and operational sites. In addition, it provides advanced data capabilities including real-time video, mapping, messaging, tracking, and interactive collaboration.

Operations teams fully understand their surroundings when they are provided with the complete mission view from Guardian ISR. Individuals will better manage difficult and unpredictable situations by assessing dangers and making optimum choices to accomplish their tasks. Mission leaders at all levels will have the information they need to manage activities in real-time and direct resources effectively. Guardian ISR platforms linked to a Guardian Fusion command center form a fully integrated mission data collection, analysis, command, control and SA powerhouse. Ultimately, SA helps to save lives and protect property by delivering complete, timely information to those who are in a position to make a difference.

KEY CAPABILITIES

- Real-time Situational Awareness across All Mission Teams.
- Interactive Information Sharing and Collaboration.
- Supports Fixed and Rotary Wing Aircraft, Ground Vehicles of all Sizes and Maritime Vessels.
- Supports Guardian Fusion Enterprise Wide Intelligence Storage, Analysis, Remote Access and Reporting.
- Simultaneous Voice and Data Available at All Nodes.
- Secure Private and Group Chat with Photo, Video and Map Overlay Attachments.
- Airborne Mission Management System.
- Air-Ground-Maritime Common Operating Picture.
- Real-Time Blue Force Tracking.
- Full-motion Video Distribution to Edge Devices.
- Interactive Map and Image Annotation/White Boarding.
- Mobile Ad-hoc Network for Reliable and Adaptable Tactical Communication.



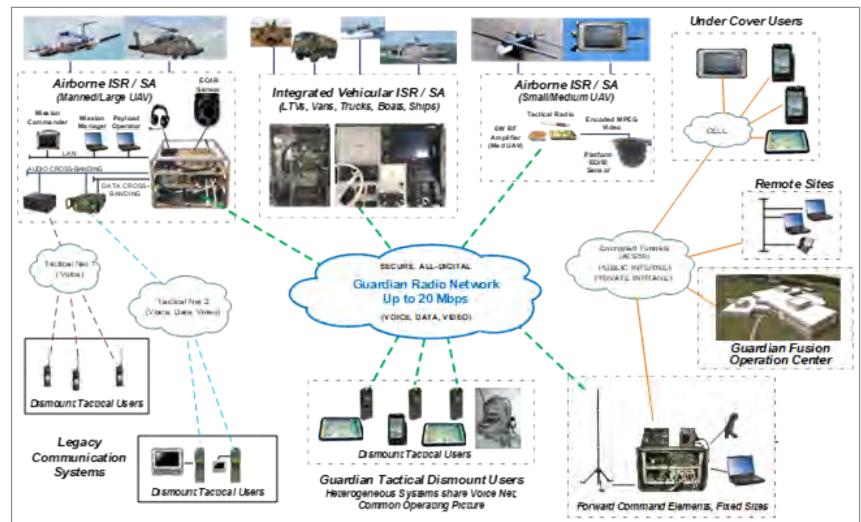


KEY CAPABILITIES (CONT.)

- Field Deployable Command Posts and Relays.
- Long-Distance RF Links up to 200 km (Air-Ground).
- SATCOM Support for Unlimited Mobility.
- Globally Deployable Secure Networks for Enterprise Connectivity via Internet or Private Intranet.
- AES Encryption and VPNs.
- Embedded GPS for Navigation and Situational Awareness.
- Dismounted Troop Kits with Vest, Ruggedized Tablet, Radio and Supplies.
- Configurable Ruggedized Platform Packages Adapt to Mission Needs.
- Windows and Android User Devices Supported.

MISSION APPLICATIONS

- Military (e.g. Battlefield and Special Operations)
- Law Enforcement
- Search and Rescue/Disaster Recovery
- First Responders



SYSTEM SPECIFICATIONS

Radio Networks:

- Mobile Ad-Hoc Self Forming Networks (MANET)
- Choice of Transceiver Products/Waveforms
- SATCOM Data Links Supported/Available

Services:

- Voice (VoIP), Messaging, Maps, Blue Force Tracking, Annotation, Video Streaming, Sensor Control/Data

Navigation:

- Embedded GPS at All System Nodes

Interfaces:

- IP WiFi/LAN/WAN, USB Devices, Legacy PTT, Baseband Audio, SIP, H.264/H.265, Serial Data

Configuration:

- Local or Remote Web Browser Access

Operational Range:

- Ground Action Team: 16 km Area of Operation (AOP) Command Post/Relay: Up to 150 km AOP
- Air-Ground LOS
- Datalink: Up to Horizon Command Post Remote: Global (Secure Internet)

Platforms:

- Manned Aircraft (Fixed Wing, Rotary Wing)
- Unmanned Aircraft (Low-SWAP Solutions)
- Ground Vehicles & Maritime Vessels (Scalable Customized Packages & antenna)

Relays:

- Fixed, Mobile or Transportable Network Nodes Unmanned Relays, Field Operating Bases



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