

THE VALUE OF PERFORMANCE.

**NORTHROP GRUMMAN**



## RC-12X

*The U.S. Army's Premier  
State-of-the-Art Tactical  
Airborne SIGINT System*

**W**ith over 40 years of operational success, the RC-12X brings extended life to Guardrail and provides significant capability enhancements to the warfighter in theater today.

Long recognized as the world's preeminent airborne signals intelligence (SIGINT) system, Guardrail has supplied critical intelligence and target information to the warfighter since 1971. Northrop Grumman has partnered with the Army in developing, deploying and evolving the system and its capabilities from day one.

For today's changing military missions, up-to-the-moment intelligence can mean the difference between success and failure. Since its initial deployment, the U.S. Army's Guardrail system has maintained its position as the

Army's most successful airborne signals intelligence (SIGINT) targeting, collection, and reporting system. This airborne SIGINT system provides operational commanders with near real-time intelligence, precise geo-location data and persistent targeting information. Furthermore, Guardrail's state-of-the-art technology supplies the foundation to rapidly address future mission requirements.

Northrop Grumman has successfully partnered with the Army for the evolution and deployment of the RC-12X, readying the system to confront an ever-changing terrain of enemies and threats. From humanitarian missions to crisis response to full-scale war, the RC-12X extends the Guardrail heritage as a decisive factor in a full range of military operations. The state-of-the-art capabilities

on the RC-12X are the result of vast experience gained from the system's worldwide deployments including the frontlines of Operations Desert Storm, Operation Enduring Freedom, Operation Iraqi Freedom and other AORs.

The RC-12X, now in the field, extends the current aircraft life to 2025 and implements a COTS-based, reprogrammable set of sensor payloads that address emerging IW and conventional threats and allows for rapid insertion of new capabilities. The RC-12X extends the long tradition of success, ensuring that the system maintains relevance and provides unmatched capability across a range of missions and AORs. The RC-12X is a cost-effective, low risk solution that swiftly adapts to today's and tomorrow's worldwide missions and conflicts.

The RC-12X provides the following operational benefits to the Warfighter today:

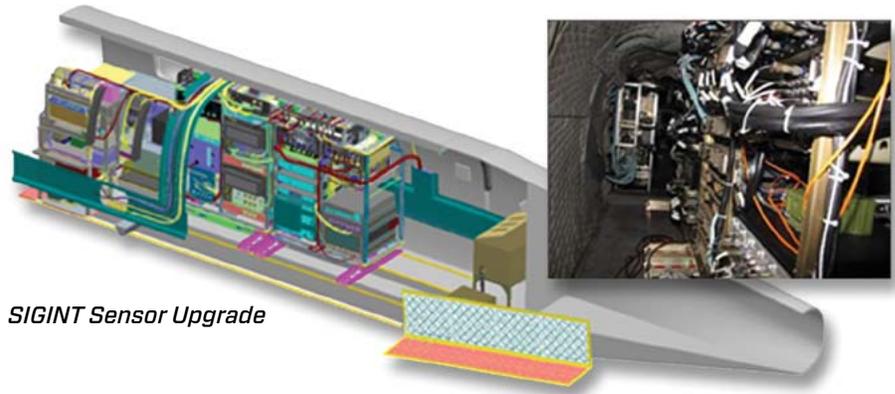
- Full spectrum support of operations across a range of AORs
- Simultaneous Stand-off and Overwatch missions
- Support for both IW and conventional operations
- Single Ship precision instantaneous geolocation (“Arrow”) – a game changing capability for reduced sensor to shooter time
- Multi-INT upgrade options
- Ground Station, Operational Intelligence (OGS formerly SIPC) PED that incorporates the Guardrail Ground Baseline (GGB) and DCGS v3.1.6 for multi-INT toolsets, databases, and interfaces
- Detection of more modern, diverse signals and prosecution of more high-value targets (HVTs) than any currently fielded SIGINT systems
- Greatly improved ability to find and track multiple HVTs simultaneously over challenging terrain and dense urban environments, with a single aircraft
- Geo-location accuracy and speed to greatly enhance full-motion video effectiveness
- A COTS-based, open architecture, ensuring affordable, rapid adaptation to new signals and evolving threats



*Aircraft Mods*



*Cockpit Upgrades*



*SIGINT Sensor Upgrade*

- Fleet standardization that inherently improves sustainment capabilities to increase mission availability to 2025 and beyond
- Streamlined ground processing capability, including net-centric enterprise operability (DCGS-A) to provide precision targeting data to enhance the effectiveness of other ISR assets (e.g., UAS, Task Force ODIN, Project Liberty)
- A key element of the existing and future planned ISR force structure that provides immediate, low-risk capabilities within the Army’s evolving airborne ISR architecture.

**For more information, please contact:**

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