

DIAMONDBACK™

Rapidly scalable, highly mobile and reconfigurable autonomous reconnaissance and security vehicle

On the modern battlefield, the need for autonomy and constant adaptation are paramount to having a tactical advantage. Diamondback is an autonomous ground vehicle designed for rapid configuration, enabling it to adapt to diverse mission requirements and provide a technological edge against threats.

Diamondback is an innovative, economically comparable alternative to manned vehicle-based systems. Additionally, it serves to complement a mixed fleet of autonomous vehicles, all of which can be controlled using AMORPHOUS, a multi-domain command and control architecture for collaborative autonomy at scale.

The vehicle's mobility, autonomy stack and mission-specific modular payload suites allow first contact to happen anywhere, reducing risk to force.

This innovation, developed through a partnership between L3Harris and Carnegie Robotics, comes at a time when traditional reconnaissance and security are being challenged by the proliferation of threat systems and challenges to force structures.

Diamondback is poised to redefine tactical reconnaissance, offering a smart, scalable and cost-effective solution that keeps forces safe while also providing a tactical advantage.



KEY BENEFITS

- > **Mission Ready:** Made for operations, not just movement, as complete mission solution
- > **Autonomous Operation:** The vehicle and its mission systems are designed for autonomous operation, powered by AMORPHOUS
- > **Rapid Scalability:** Leverages commercial production to scale quickly and economically to meet near-term demands
- > **Modular Design:** The architecture uses a modular and open system approach (MOSA) to enable it to be updated swiftly
- > **Cost-Effective:** Sourced from commercial components for lower overall cost of ownership, maintainability and growth with technological advancements
- > **High Mobility:** The high-speed, off-road platform ensures superior performance in diverse terrains
- > **Proven Safe:** Employs autonomy safety monitoring software for trusted operations

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AUTONOMOUS RECONNAISSANCE AND SECURITY

SENSORS

- UAS Detect and Defeat
- Day and Night Optics
- RF Collection
- Computer Vision and Advanced RF Processing

AUTONOMY

- UAS Swarm Deployment and Management
- AMORPHOUS Collaborative Uncrewed Systems Control
- Vehicle Navigation Stack

COMMUNICATIONS

- High-Capacity Line of Sight
- SATCOM Beyond Line of Sight
- Assured Positioning, Navigation and Timing
- Retransmission



Built by

L3HARRIS®



Driven by

**CARNEGIE
ROBOTICS**

Visit [L3Harris.com](https://www.L3Harris.com) for
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Diamondback™ Autonomous Reconnaissance and Security

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