

Lockheed Martin, Blackshark.Ai, Debut Next-Gen Image Generator Powered By Unreal Engine



AI-enabled Prepar3D Fuse provides cutting-edge graphics in a single environment for joint, multi-domain exercises.

ORLANDO, Fla., Dec. 2, 2025 – Today, Lockheed Martin [NYSE: LMT], with Blackshark.ai, unveiled Prepar3D® Fuse, a next-generation simulation solution to prepare today's soldier for any mission. Built on a custom version of Unreal Engine 5, Prepar3D® Fuse blends Lockheed Martin's simulation legacy with commercially available cutting-edge graphics and AI-generated terrain and sensor-modeling, giving warfighters, engineers and instructors a single environment for everything from initial flight training to joint, multi-domain exercises.

"Prepar3D® Fuse provides unmatched synthetic training for the warfighter," said Adam Breed, chief of innovation at Lockheed Martin. "By marrying our proven SAGE and Prepar3D® technologies with Unreal Engine's real-time graphics and Blackshark.ai's global terrain, we give operators a high-fidelity training environment while cutting development time and driving cost efficiencies."

"This marks the beginning of reality and simulation converging toward omniscient worlds that think, evolve, and remain in perfect sync with a changing planet," declared Michael Putz, CEO of Blackshark.ai.

Key capabilities of Prepar3D® Fuse include:

- A full-earth, material-encoded globe that includes more than 1,000 geo-referenced airports and high-resolution cityscapes powered by Blackshark.ai.
- Physically accurate atmospheric and weather models, multi-spectral sensor suites, and proven SAGE Infrared Math Model to enable realistic training and validation of next-generation weapons and platforms.
- AI-driven semi-automated-forces engine that generates realistic behavior for individual crews up to brigade-level exercises, dramatically reducing role-player workload and accelerating scenario creation.
- Full compliance with distributed interactive simulation, common image generator interface and native UnrealEngine workflows to ensure seamless integration with legacy assets and rapid deployment of new content.

Prepar3D® Fuse improves aspects of live, virtual and constructive training, and will be inserted across Lockheed Martin training devices delivered across the globe. With its open system, Prepar3D® Fuse is adaptable for all training platforms to be quickly integrated and used with the highest fidelity of training available.

For additional information, visit our website: www.lockheedmartin.com/simulation.

About Lockheed Martin

Lockheed Martin is a global defense technology company driving innovation and advancing scientific discovery. Our all-domain mission solutions and 21st Century Security® vision accelerate the delivery of transformative technologies to ensure those we serve always stay ahead of ready. More information at lockheedmartin.com.

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