X-IG FUSION

X-IG Fusion™

Gaming Power
Meets Simulation Dependability...

CATI's X-IG Fusion™ represents the seamless integration of Unreal Engine® with CATI's trusted X-IG® Image Generator. This powerful blend combines the cutting edge capabilities and breathtaking graphics of the world's leading game engine with over 30 years of CATI's proven expertise in visual simulation.

CATI understands customer requirements and consistently delivers solutions that meet — and exceed — expectations. For nearly three decades, X-IG® has been a dominant player in the simulation industry, delivering reliable interfaces, robust databases, and unmatched know how. CATI's long history ensures customers receive solutions tailored to their evolving requirements, backed by personalized service and deep technical insight.

Utilizing Unreal Engine® leverages the latest hardware innovations from industry leaders like NVIDIA, ensuring performance at the highest level. By combining Unreal Engine's® advanced rendering capabilities with CATI's simulation expertise, customers gain access to a platform that is both visually stunning and technically rigorous.







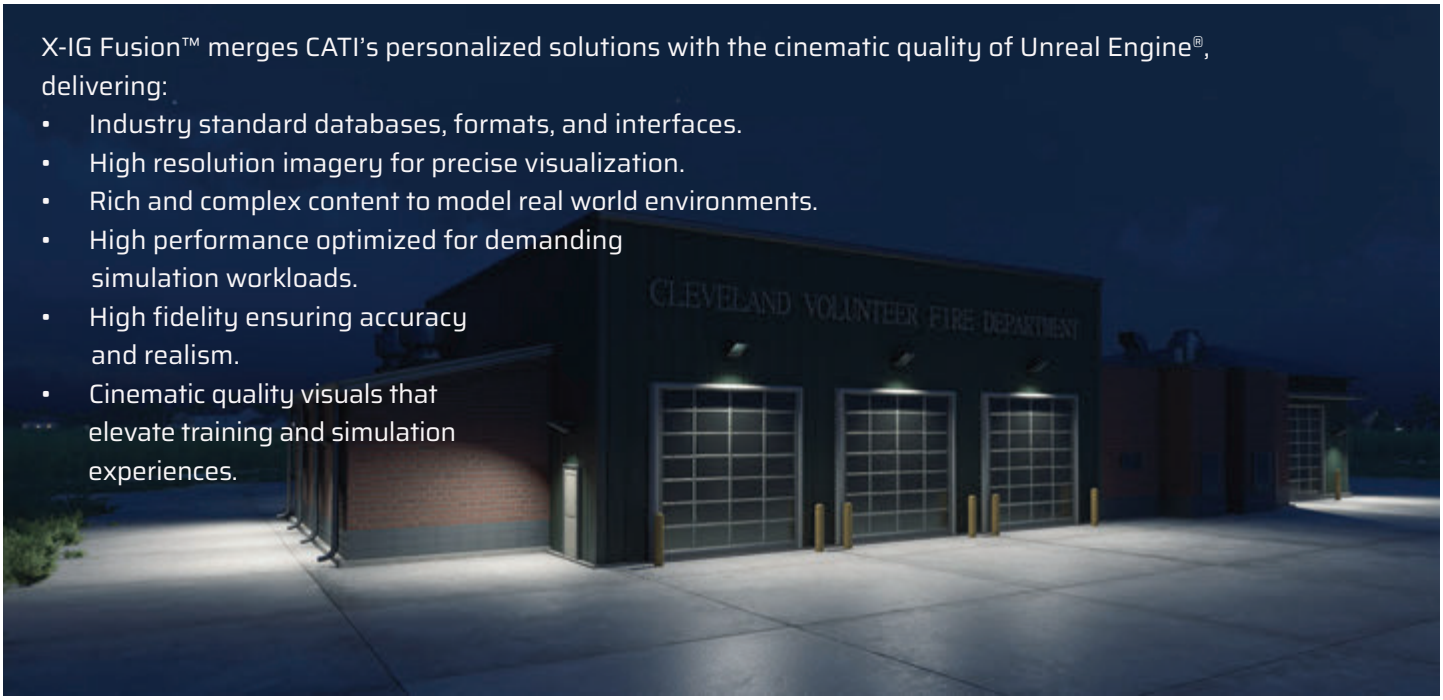
CATI Training Systems

Scan QR code for more information
and to contact our sales team.

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X-IG Fusion™ merges CATI's personalized solutions with the cinematic quality of Unreal Engine®, delivering:

- Industry standard databases, formats, and interfaces.
- High resolution imagery for precise visualization.
- Rich and complex content to model real world environments.
- High performance optimized for demanding simulation workloads.
- High fidelity ensuring accuracy and realism.
- Cinematic quality visuals that elevate training and simulation experiences.





Advantages

- Individual plants respond to rotor wash.
- Terrain detail increases from approach to hover.
- Enhanced 3D Obstacles for low altitude flight.
- Moving road traffic for realistic low-altitude flight
- Multiple enhanced weather and lighting scenarios for the same route.
- Built on Unreal® 5.8, rendering terrain, vegetation, airfield objects, and atmospheric effects together in real-time.
- Dynamic lighting and reflections with Lumen.
- Detailed ground shadows.
- NVDIA DLSS support, upscaling images to a higher resolution. Ray-traced images restores detail with Ray Reconstruction™.
- 60+ FPS smooth continuous performance.
- Detailed Areas of Interest.
- Procedural generation of fields, forests, and other scattered features over large areas of over 20,000 miles of terrain with AI Data Upscale image quality enhancement.
- Three channel cockpit projection.
- External simulator integration through X-IG®.

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