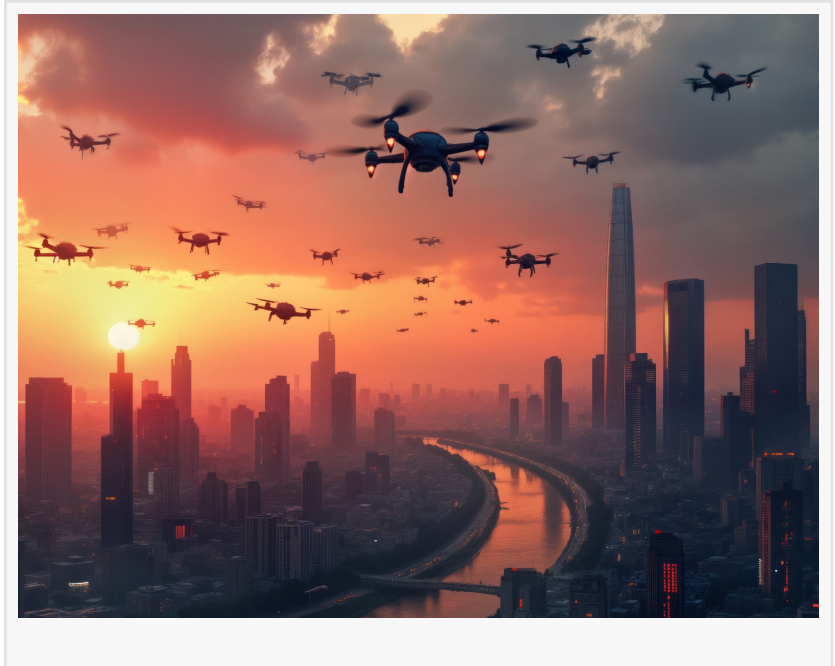


Thor Dynamics Partners with NVIDIA to Advance Drone Swarm Defense

ORLANDO, FL, UNITED STATES, February 10, 2025 /EINPresswire.com/ -- Thor Dynamics, an American technology company that provides directed energy solutions for drone defense, proudly announces its partnership with NVIDIA to accelerate its business through cutting-edge AI technology and NVIDIA's strategic resources.

Thor Dynamics' flagship product, Laser Armor™, is a comprehensive directed energy counter-drone solution that detects, tracks, and eliminates aerial threats in seconds. Utilizing advanced radar and optical systems, Laser Armor™ provides precise target identification and mitigation with minimal collateral damage. Powered by Thor's proprietary Laser Engines, the system ensures superior protection for critical targets and infrastructure.



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Gleb Chuvpilo, CEO

The growing prevalence of drone technology presents new security challenges, particularly for critical infrastructure such as power plants, data centers, and military installations. Unauthorized or hostile drones can disrupt operations, compromise security, and pose significant threats to national safety. Effective counter-drone solutions are essential to detecting, tracking, and neutralizing these threats before they cause harm, ensuring the uninterrupted operation of vital assets.

Unlike traditional kinetic or electronic warfare counter-drone methods, high-power lasers provide a unique set of advantages. Lasers offer instantaneous target

engagement, eliminating threats without the need for reloading or physical ammunition. They

also minimize collateral damage, as they can neutralize drones with pinpoint accuracy without affecting surrounding infrastructure or personnel. Additionally, directed energy weapons operate at the speed of light, allowing for rapid response to swarming drone attacks, a challenge that conventional counter-drone solutions often struggle to address. With low operational costs per engagement, lasers present a scalable and cost-effective alternative to traditional defense mechanisms.

By partnering with NVIDIA, Thor Dynamics gains access to a suite of powerful AI tools and technologies that will enhance its counter-drone capabilities. The partnership is focused on three key areas:

1. Simulation & AI Training – Thor Dynamics is leveraging NVIDIA Isaac Sim and Isaac Lab ecosystems to model drone attack scenarios and train reinforcement learning models to improve response efficiency. These advanced simulation tools allow Thor Dynamics to test a variety of threat scenarios in a controlled virtual environment, accelerating the development of intelligent countermeasures. By refining detection and response strategies through AI training, the company can ensure faster and more effective threat neutralization in real-world situations.
2. Embedded Processing Power – NVIDIA Jetson family of microprocessors are being integrated into Thor Dynamics' counter-drone systems, enhancing real-time AI-driven threat detection and response. These high-performance, energy-efficient processors enable Thor's systems to process vast amounts of sensor data at the edge, allowing for rapid decision-making without reliance on cloud-based processing. This results in lower latency, increased reliability, and improved system autonomy in critical operational environments.
3. Industry Collaboration – Through NVIDIA Inception, Thor Dynamics is actively engaging with other AI-driven companies in NVIDIA's ecosystem to advance counter-drone technologies. By working alongside industry leaders and AI specialists, Thor Dynamics gains access to the latest advancements in machine learning, computer vision, and sensor fusion. These collaborations drive innovation, helping to create more effective and adaptive defense solutions against emerging aerial threats.

“NVIDIA Inception will be a game-changer for Thor Dynamics as we continue to innovate in AI-driven drone swarm defense,” said Gleb Chuvpilo, Co-Founder at Thor Dynamics. “By combining NVIDIA's advanced AI and compute resources with our high-power directed energy solutions, we are accelerating our mission to protect critical infrastructure from evolving aerial threats. This collaboration will enable Thor Dynamics to push the boundaries of AI-powered counter-drone defense, reinforcing its position as a leader in the field.”

For more information about Thor Dynamics and its cutting-edge drone defense solutions, visit <https://www.thordynamics.com/>

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