Gremsy Expands NDAA-Compliant UAV Payload Models Featuring Edge AI and Thermal by FLIR

Teledyne FLIR OEM's Boson®+ Thermal Camera Module Integrated into Revolutionary Spherical Drone Payloads.

Goleta, Calif.– Teledyne FLIR OEM, a Teledyne Technologies Incorporated company (NYSE: TDY) and the global leader in enabling thermal imaging innovation, today announced its latest Thermal by FLIR collaboration with Gremsy, a leader in professional unmanned aerial vehicle (UAV) payload and gimbal solutions. Through the collaboration, Gremsy is introduced its NDAA-compliant ORUS-L and Lynx payload lines, equipping drones with best-in-class aerial thermal intelligence.

"Thermal by FLIR helps position Gremsy at the forefront of drone payloads with reliable NDAA-compliant thermal camera module availability," said Jared Faraudo, vice president, product management, Teledyne FLIR OEM. "By integrating the size-weight-and-power (SWaP)-optimized long-wave infrared (LWIR) Boson+ camera module within the Gremsy spherical payload designs, the collaboration empowers demanding professional applications that require situational awareness day or night."

The International Traffic in Arms Regulations (ITAR)-free and National Defense Authorization Act (NDAA)-compliant Boson+ thermal imaging camera module has recently been integrated into two new groundbreaking Gremsy products: Lynx, an ultra-compact ISR payload, and ORUS-L, a pioneering, sphere-shaped payload. These represent the introduction of an innovative product series.

"Boosting innovation in uncrewed intelligence, our Lynx and Orus L payloads represent monumental achievements for our team while pushing new frontiers for our expanding spherical ecosystem," said Huy Pham, CTO of Gremsy. “The sphere form factor enables exceptional protection, aerodynamic efficiency, and a flexible platform for a wide range of critical applications. Our new payloads, enhanced by Teledyne FLIR OEM's thermal imaging technology, help users better achieve their mission objectives with unprecedented insight."

LYNX NDAA: Ultra-Compact ISR Payload
The ultra-lightweight and compact Lynx NDAA model is engineered for ultimate aerial efficiency, drastically reducing SWaP challenges on UAV platforms and translating directly into significantly longer operational times and enhanced platform versatility. Its dual thermal and visible imaging capabilities provide a critical advantage for time-sensitive public safety, drone-as-first-responder (DFR), and defense missions.

Orus-L NDAA: Pioneering Spherical Payload with AI Integration
As the vanguard of Gremsy's spherical payload vision, the IP55-rated ORUS-L NDAA model supports flight speeds up to 100 km/h across vertical-takeoff-and-landing (VTOL) and fixed-wing platforms. Powered by the NVIDIA Jetson Orin NX, ORUS-L performs complex AI tasks including object detection, target lock, and autonomous tracking in real-time. Leveraging its built-in high-performance processor and Gremsy’s advanced image processing algorithm, this high-performance gimbaled solution includes an electro-optical (EO) camera, the radiometric Boson+ thermal camera module, and a laser range finder (LRF) ideal for critical inspection and public safety applications.

Thermal by FLIR is a cooperative product development and marketing program that supports original equipment manufacturers (OEMs) and product innovators who use Teledyne FLIR thermal camera modules in their products. It allows integrators to get to market faster, enabling lower development costs and accelerating business growth via the world's largest volume manufacturer of ITAR-free IR sensors and modules: Teledyne FLIR OEM.

For more information about the Thermal by FLIR program, visit
https://oem.flir.com/learn/thermal-by-flir-program/.

About Teledyne FLIR OEM

Teledyne FLIR OEM, a Teledyne Technologies Incorporated company, is the world's largest volume manufacturer of ITAR-free and NDAA-compliant infrared (IR) sensor and camera modules. As a vertically integrated supplier, Teledyne FLIR OEM delivers thousands of thermal imaging modules and related software tools daily for defense, automotive, uncrewed, professional, and artificial intelligence applications designed to improve decision support and situational awareness. Teledyne FLIR OEM enables life-changing thermal sensing so the world can do and see more. For more information, please visit https://oem.flir.com/ or follow @flir.