

News Release

For Immediate Release

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Sensors Unlimited- Goodrich ISR Systems to Demonstrate Sensor Fusion for UAV Payloads at SPIE DSS 2010

- New imaging engine maximizes target detection and recognition by combining short wave and long wave infrared (SWIR-LWIR) wavelengths.

PRINCETON, NJ, APRIL 5, 2010 – Sensors Unlimited - Goodrich ISR Systems, announces a new sensor fusion imaging engine that incorporates compact, uncooled, and lightweight shortwave infrared (SWIR) sensors based on indium gallium arsenide (InGaAs) technology. The image fusion, called **Hinted SWIR™**, is shortwave IR imagery overlaid in real time with colorized thermal hints.

The SWIR sensor provides rich background details, while the thermal hints highlight scene features-of-interest in a comprehensive, information-rich image. SWIR imaging also allows the warfighter to see through battlefield obscurants, to see in very low-light conditions, and to see all the lights and lasers on the battlefield. The long wave infrared (LWIR) microbolometer sensor offers the exceptional ability to see human activity via thermal emissions. By combining these two imaging capabilities, the new Hinted SWIR technology delivers fused imagery with superior detail and maximum information in an easy-to-understand format. Image fusion provides important low-light-level-illuminated scene details from the SWIR sensors which form an excellent contextual background for thermally-active target details, such as humans and vehicles, which are best detected with the LWIR sensors.

Goodrich will showcase a notional model UAV at SPIE DSS to demonstrate the small size and the dimensional stealth of unmanned aerial systems (UAS) and highlight the potential of small, autonomous systems to fill larger roles in intelligence gathering. The model features include a Goodrich Cloud Cap Technology autopilot and a T2 gimbal with a Hinted SWIR imaging system. The highly-stable imaging engine payload, designed to retract during transit to and from the target area, will be used for tracking individual persons and vehicles.

The model UAV and imaging system payload will be on display along with samples of actual Hinted SWIR imagery captured by the new fusion engine at SPIE's Defense, Security & Sensing show April 6-8, 2010, in Orlando, FL. Please stop by Sensors Unlimited – Goodrich ISR Systems' booth #825 for a demonstration.



Sensors Unlimited, Inc., part of Goodrich ISR Systems, based in Princeton, NJ, has pioneered the design and production of NIR and SWIR cameras and systems utilizing advanced Indium Gallium Arsenide (InGaAs) imaging technology for industrial, commercial, military, agricultural, and scientific markets. Recently, Sensors Unlimited's cameras were used on NASA's successful LCROSS mission detecting moisture on the moon. For additional information on InGaAs-based shortwave infrared imaging detectors, arrays, and systems, please visit www.sensorsinc.com.

Goodrich Corporation, a Fortune 500 company, is a global supplier of systems and services to aerospace, defense and homeland security markets. With one of the most strategically diversified portfolios of products in the industry, Goodrich serves a global customer base with significant worldwide manufacturing and service facilities. For more information, visit <http://www.goodrich.com>.

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GR – Electronic Systems

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