News Release

For Immediate Release
Karen Jeffers +1 (609) 520-0610
Karen.Jeffers@goodrich.com

Sensors Unlimited, Inc.,
part of Goodrich Corporation
3490 Route 1
Building 12
Princeton, New Jersey
08540-5914
www.sensorsinc.com
Ph.: 1-609-520-0610
Fax: 1-609-520-0638

Sensors Unlimited Introduces 92 KHz Shortwave Infrared Digital Line Scan Camera for High Speed SD-OCT Imaging

PRINCETON, NJ, APRIL 28, 2010 – Sensors Unlimited - Goodrich ISR Systems announces the new **SU1024LDH2**, a high speed, digital line scan SWIR-indium gallium arsenide (InGaAs) camera. The second generation 1024-pixel, high speed camera features an increased line rate to over 91,900 lines per second, making it ideal for spectral-domain optical coherence tomography (SD-OCT) imaging applications. In the 1.05 microns wavelength band, the new imager can capture detailed 3D SD-OCT volumes of the retina, choroidal vasculature and nerve head, offering important detail beyond the depth capability of current 0.84 micron systems.

The compact camera housing features both metric and SAE mounting holes on multiple sides for easy configuration into existing systems or for other positioning purposes. Small (3 inches W x 3 inches H x 2.4 inches L) and cost-effective, the LDH2 SWIR camera can be easily mounted to spectrometers. Optional adapters are also available for C-mount, or F-mount lenses for use with machine vision applications.

Goodrich's new high speed camera has a wavelength response range from over 0.8 microns to 1.7 microns with a 25 micron pixel pitch and aperture heights of 25 microns or 500 microns. The SU1024LDH2 provides an integrate-while-read snapshot acquisition and the operator-selectable trigger modes include free run, single line per trigger, programmable exposure, or gated burst.

The LDH2 is ideal for SWIR imaging applications, such as high speed absorption or emission spectroscopy for use in combustion research or for agricultural/food product inspection. These applications are based on detecting the moisture, lipids, proteins, or other molecular vibration absorbance bands in the 800-1700 nm range. Other applications include high speed inspection of silicon boules or wafers for photovoltaics, solar cell/panel inspection, integrated circuits, and many machine vision tasks for sorting and monitoring continuous processes.

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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. Most 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.

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