



News Release

For Immediate Release

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Sensors Unlimited – Goodrich ISR Systems’ Introduces Compact, InGaAs SWIR Line-Scan Camera for Machine Vision, Sorting, & Solar Inspection

PRINCETON, NJ, March 1, 2011 —Sensors Unlimited – Goodrich ISR Systems’ new compact SU1024LDM line-scan camera features high resolution, 1024-pixel imaging in the shortwave infrared (SWIR). Its square pixels are ideal for inspection of polished silicon blocks, ingots, or wafers, hot glass bottles, and for use on continuous-process lines that apply transparent coatings which can be ‘seen’ in the SWIR spectral region. The innovative square pixel design ensures that the pixel height is sharply defined by a metal mask, providing better uniformity of response and improved measurement accuracy for the object being imaged.

The SU1024LDM is compact and robust (only 3-in. x 2.9-in. x 2.4-in. deep - 76 mm x 74 mm x 61 mm), and has mounting points on 4 of its 6 sides, making it easy to integrate into a processing line or machine vision system. Goodrich’s new camera features a 14-bit base Camera Link® interface, flexible triggering, and line rates up to 46,000 per second for its 1024 pixel width. The SU1024LDM offers high quantum efficiency, wide dynamic range, and integrate-while-read acquisition. For added flexibility, the ruggedized housing supports an operating temperature range of -10 to +50 degrees C. An optional 50 mm f/1.4 lens designed specifically for the SWIR is also available.

In solar applications, the new indium gallium arsenide (InGaAs) line-scan imager detects cracks, occlusions, inclusions, and mis-alignments *before* further processing, eliminating the waste and expense of manufacturing defective solar wafers or cells. Other applications include high-speed imaging of free-falling molten glass, fast absorption or emission spectroscopy for combustion research, moisture, lipids, proteins, or other molecular vibration bands in the SWIR, and on-line sorting of agricultural materials, food products, recycled plastic pellets, and pharmaceutical products..

Goodrich ISR Systems will premier the new SU1024LDM camera at Automate 2011 at McCormick Place North, Chicago, IL, from March 21 – 24, 2011. If you’re attending the show, please visit Goodrich’s booth #419 for a demonstration.



Sensors Unlimited-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. For additional information on InGaAs-based shortwave infrared imaging detectors, arrays, and systems, please visit www.sensorsinc.com.

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