



News Release

Media Contacts:

Gail K. Warner +1 704 423 7048

For Immediate Release

Goodrich Corporation
Four Coliseum Centre
2730 West Tyvola Road
Charlotte, NC 28217-4578
Tel: +1 704 423 7000
Fax: +1 704 423 7127
U.S.A.
www.goodrich.com

Technical Contact: Dr. Martin H. Ettenberg +1 609 520 0610

Goodrich Awarded Research & Development Contract from U.S. Army to Develop New Visible - Shortwave Infrared Detector Array

CHARLOTTE, NC, January 6, 2006 – Goodrich Corporation has been awarded a contract from the U. S. Army's RDECOM CERDEC Night Vision and Electronic Sensors Directorate to design, develop and deliver an indium gallium arsenide (InGaAs) detector array for use in high definition (1920x1080 pixel) shortwave infrared (SWIR) night vision cameras. The contract will further the development of high resolution, small pixel pitch, high sensitivity, dual-wavelength cameras that can simultaneously produce images in both the visible and the shortwave infrared wavelength regions. This will allow users to image under the darkest of night conditions in a new wavelength band and will enable backward compatibility with older imaging technologies.

The project will be conducted by the company's Optical and Space Systems team (formerly Sensors Unlimited) in Princeton, N.J. Goodrich's research and development will focus on the design of an improved readout integrated circuit (ROIC) architecture with an unprecedented 12µm pixel pitch thus allowing for a tiny array with high resolution. This minimizes the weight and size of the optical assembly for long- range imaging. With the small pixel pitch and resultant smaller diode collection area, the new device will feature an improved ROIC design with lower read noise offering higher resolution than is currently available in a small array. Work will also focus on improving the visible response from the current, commercially proven indium phosphide (InP) substrate removal process. These improvements will result in higher device yields which will lower the cost per unit and provide much higher sensitivity in dark or low light conditions.

The new ROIC and the improved substrate-removed InGaAs photodiodes will be integrated into the new imager. The resulting camera will have the potential for both commercial and defense applications in areas such as covert surveillance, optical coherence tomography, hot end process inspection (e.g. glass and steel), spectroscopy and a variety of other machine vision tasks.

Goodrich has pioneered the design and production of shortwave infrared cameras and systems utilizing advanced InGaAs imaging technology for industrial, commercial, military, agricultural and biomedical markets. For additional information on InGaAs-based shortwave infrared



imaging detectors, arrays and systems, visit the “Sensors Unlimited” link found on Goodrich’s Optical and Space Systems division homepage at <http://www.oss.goodrich.com/>

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