

IMAGING

Tech Pulse



February 2016

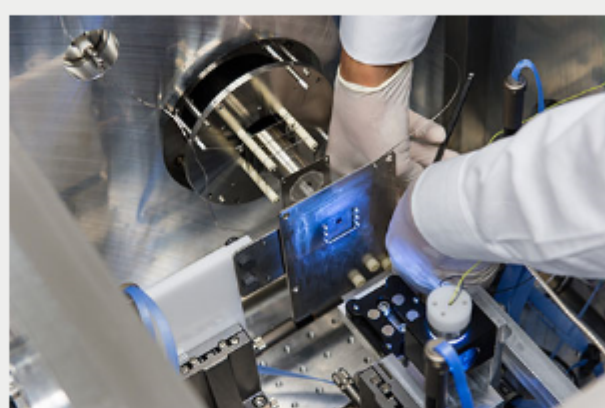
Imaging Tech Pulse is a special edition newsletter from Photonics Media and DRS Technologies covering key developments in imaging technology.

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EUV Laser Enables Nanoscale 3D Imaging of Cells

A mass-spectral imaging system that integrates an EUV laser has enabled the mapping of cellular compositions in 3D, allowing researchers to watch how cells respond to medications at the nanoscale.



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PROMOTED CONTENT



DRS Technologies, Inc., Commercial Infrared Systems

It's Time to RSVP to the Future of Thermal

DRS Technologies has pioneered the next generation of commercial uncooled thermal imaging technology by engineering the smallest pixel pitch in the industry. With its release date approaching, it's time to prepare for the future of thermal by registering for an advance preview webinar on March 22, 2016.

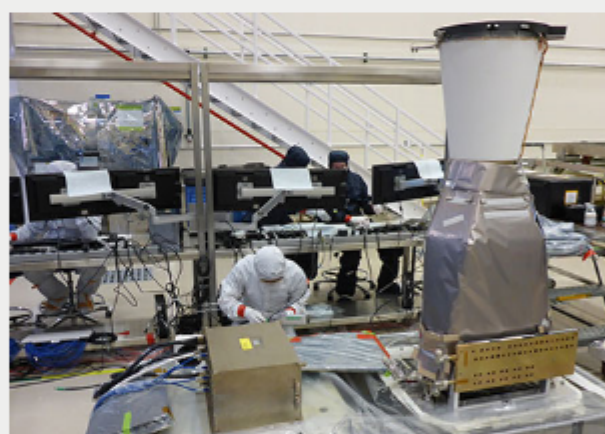


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Lockheed Completes 2nd Imaging System for Weather Satellite

Lockheed Martin Corp. has delivered a second lightning-monitoring camera to the National Oceanic and Atmospheric Administration (NOAA) for use on its next-generation weather monitoring satellite. The instrument features a 500-fps, 1.8-MP focal plane, integrated with low-noise electronics and specialized optics to detect weak lightning signals against bright, sunlit cloud backgrounds.



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Camera Overcomes Redshift for Astronomical Imaging

Upgraded light sensors have enabled a camera to image outer space at red wavelengths that are too red for the human eye to see. Due to an effect known as redshift, very distant astronomical objects appear much redder when observed on Earth. The camera's sensitivity to red light enables it to detect objects many billions of light years away.



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Fluorescence Imaging 'Video Pill' Made for Cancer Detection

A wireless capsule with fluorescence imaging capabilities could be swallowed by patients to aid in detection of cancers of the throat and gut. The University of Glasgow capsule incorporated a CMOS single-photon avalanche detector imaging array, miniaturized optical isolation, wireless technology and low-power design. Emitting low-level 468-nm illumination, it consumed 30.9 mW.

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Neptec Wins Design Contract for Space Station Vision System

The Canadian Space Agency (CSA) has awarded Neptec Design Group Ltd. of Ottawa, Ontario, a contract to design a vision system for inspection and maintenance of the International Space Station (ISS). The system, which will be launched in 2020, will use a combination of three sensors: a 3D lidar system, an HD camera and an IR camera.

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