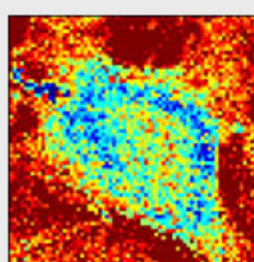




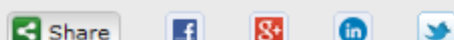
Thursday, December 31, 2015

Thermal Contrast Technique Reveals Cell Characteristics



A label-free technique based on a thermoelastic lens has been used to capture images of single cells with 2-µm resolution. The method could be used to perform histological analysis and for disease detection in tissue samples.

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Fluorescence Imaging 'Video Pill' Made for Cancer Detection

Potentially the device could replace power-hungry and intrusive optical fiber-based endoscopes, and extend the range of clinical examination below the duodenum.

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Multispectral Camera Tracks Earth's Atmosphere from Distant Orbit

NASA's Earth Polychromatic Imaging Camera (EPIC), affixed to NOAA's Deep Space Climate Observatory (DSCOVR) about a million miles from Earth, has begun capturing images of the planet's clouds, land surfaces, aerosols and more.

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NovaLum 1200: RGB Visible Lasers

Necsel The NovaLum platform allows you to customize multiple wavelength laser modules with the cost and performance metrics to enable your next product.

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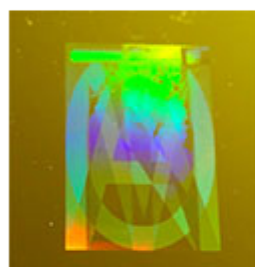
Athermal Fixed Focal Length Assemblies

ISP Optics Corp. ISP Optics is expanding and demonstrating its LWIR Imaging Athermal Fixed Focal Length Assemblies. These Fixed Focal Length Lenses are designed for uncooled IR detectors and for a single angular field of view.

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Metasurface Encodes IR Images



Irregular metasurfaces can be made to encode multiple images at IR frequencies in much the same way as the pixels in a television screen can form a visible-light image. This was demonstrated with an array of subwavelength metal-insulator-metal (MIM) resonators that revealed different letters and even a famous painting when heated and imaged at different wavelengths and polarizations.

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£500K North Wales Photonics Launchpad Competition to Fund R&D Projects

There are around 80 companies in the Welsh photonics sector around St. Asaph, employing 5,000 people and seeing steady growth of 8 percent per year, according to the U.K. government.

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Hutchinson Group to Invest £4.1M in Staffing, Technology for Laser Manufacturing

Industrial laser manufacturing firm the Hutchinson Group will add 80 workers at its production sites in Northern Ireland, and also plans to purchase technology to expand its business in the automotive, aerospace and materials handling sectors.

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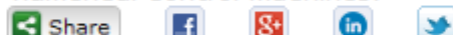


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Nikon Metrology Opens Showroom in Mexico

Products on display will include industrial and measuring microscopes, laser scanners, video measuring systems such as iNexiv, portable arms and scanners, as well as computed tomography x-ray, coordinate measuring and computer numerical control machines.

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'Rubber Laser' Material Advances Sensor Technology



A rubberlike material that emits coherent light without mirrors — even while it's being stretched — could be used in remote sensors or as a tunable light source. It contains liquid crystals that act as both the distributed cavity host and the active medium.

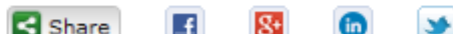
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Optical Resonators Probed with Ion Beams

Ion beams can subtly measure and adjust the performance of microscale optical resonators, a finding that could help refine production of such cavities for applications in sensing and quantum computing.

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Dale Sabo
VP, SCANLAB America

SCANLAB AG – Smart Scan Systems

A short and informative summary of some new product highlights presented by Dale Sabo, Vice President SCANLAB America. With over 20,000 systems produced and distributed annually, SCANLAB AG as independent OEM manufacturer of scan solutions for deflecting and positioning laser beams in three dimensions is a global technology leader in the laser sector.

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