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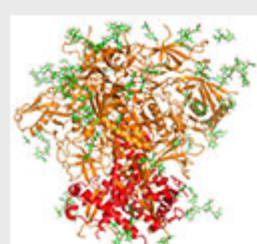
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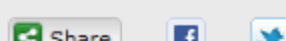
Thursday, October 16, 2014

FRET Offers Real-Time Look at HIV Infection Process



Scientists can now study the motion of HIV proteins on the surface of the virus, opening new possibilities for fighting the disease. Single-molecule fluorescence resonance energy transfer imaging offers a real-time view of how the proteins attack and infect human immune cells.

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CEO to Lead Cognoptix Board of Directors

Medical imaging device developer Cognoptix has named its president and CEO, Paul D. Hartung, chairman of the company's board of directors.

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Laser-Based Imaging Leads to Better Lung Disease Treatment

A laser-based imaging method could enable doctors to monitor and better treat lung diseases.

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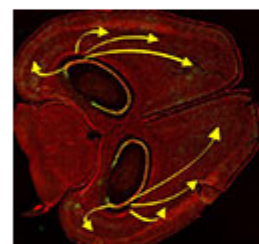
OPAL IR System

Image Science Ltd.
The OPAL IR system is a very fast and accurate system for measuring MTF and other optical parameters in the infrared spectral region. A single-element MCT detector is used to scan the image of slit target at a constant speed.

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Optogenetics Tests Memory Manipulation Theory



Optogenetics is giving scientists a better look at how different parts of the brain can work together to manipulate memories.

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Fluorescent, Magnetic Nanoparticles Aid Bioimaging

Nanoparticles that fluoresce to enable tracking in the body can also be precisely manipulated with magnetic fields.

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UC Berkeley Nabs Grant for BRAIN Initiative, Teams with Zeiss

The University of California was awarded a total of \$7.2 million in funding from the National Institutes of Health to conduct brain-related research as part of the national BRAIN Initiative.

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In this edition of the industry's **premier weekly newscast**: 3-D imaging using gaming gear, memory manipulation through optogenetics, energy-storing solar cells, and winners of the Nobel Prize for superresolution microscopy.

Frequency Combs Enable Remote 3-D Mapping

A laser-based imaging system can now create high-definition 3-D maps remotely, with the ranging accuracy made possible by frequency combs.

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Imaging Digs Deep to Improve Crops



A new technique and accompanying software measures and analyzes plant root systems, potentially boosting the output of important food crops.

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German Photonics Forum Adds New Leaders

The Photonics Forum of the German Engineering Association recently added four new members to its steering committee.

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WHITE PAPER



Simultaneous Intensity Profiling of Multiple Laser Beams Using the BladeCam-XHR Camera

DataRay Inc.

There are several applications where the parallel processing of multiple beams can significantly decrease the overall time needed for the process. Intensity profile measurements that can characterize each of those beams can lead to improvements in that application. If each beam had to be characterized individually, the process would be very time consuming, especially for large numbers of beams. This white paper describes how the BladeCam-XHR can be used to simultaneously measure the intensity profile measurements for multiple beams by measuring the diffraction pattern from a diffraction grating and the intensity profile from a 3x3 fiber array focused using a 0.5 NA objective.

[DOWNLOAD WHITE PAPER >>](#)

Industry Events

OSA Frontiers in Optics 2014 - Oct. 19-23, 2014 · Tucson, Ariz.



Frontiers in Optics is the annual Optical Society meeting and conference, held alongside the American Physical Society's Laser Science conference. The event brings together the two organizations to offer cutting-edge presentations, speakers and other events, all of which span a range of topics in optics and photonics.

Discussions and lectures will be features, as well, on topics including Optical Design, Fabrication and Instrumentation; Optical Sciences; Optics in Biology and Medicine; Optics in Information Processing; Integrated Photonics; and Laser Science.

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