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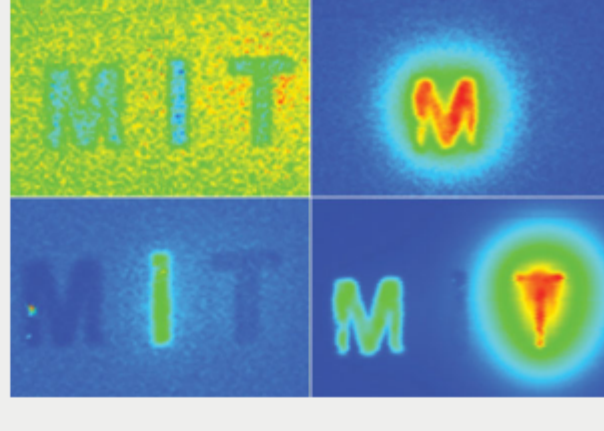


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Top Stories

NIR Imaging System Could Help Identify Hard-to-Detect Cancers at Earlier Stage

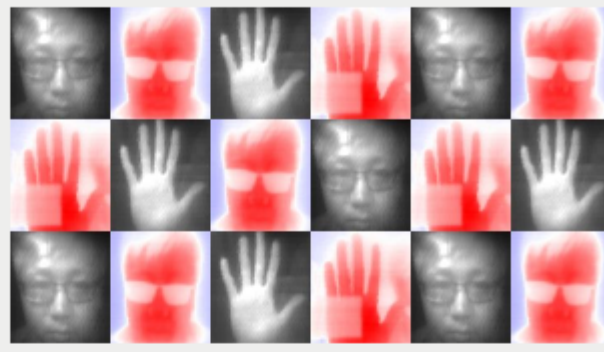
An optical imaging system developed by MIT researchers could enable physicians to identify tiny tumors deep within the body, leading to earlier detection and treatment of cancer. The system uses fluorescent probes that emit light at different NIR wavelengths, depending on the type of doping element that is used.



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Quantum Dots Are Tuned to Build IR Camera Cheaply, Efficiently

To build an inexpensive IR camera, scientists at the University of Chicago leveraged the wide spectral tunability of colloidal quantum dots (CQDs), tweaking the CQDs to develop a formula to detect shortwave IR and another formula to detect midwave IR.



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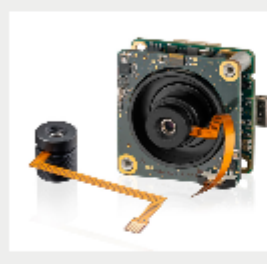
3D Printer Uses Different Wavelengths to Print with Multimaterials

A new 3D printer, developed by a team at the University of Wisconsin-Madison, is using different patterns of visible and UV light to provide it with the spatial control necessary to produce multimaterial parts successfully.



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Featured Products

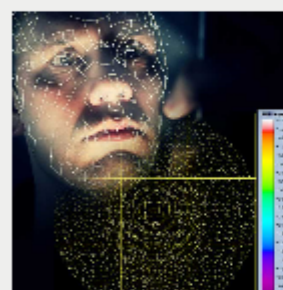


Cameras with Liquid Lens Control

IDS Imaging Development Systems GmbH

The low-cost uEye LE USB 3.1 Gen 1 board level cameras (6 MP or 18 MP sensor) from IDS are available as variants able to control liquid lenses. Users can easily and conveniently adjust the focus via the user interface or programming interface.

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Near-IR Light Measurement Software

Radiant Vision Systems, Test & Measurement

Part of the Radiant Vision Systems family of automated photometric test and measurement software, the near-infrared light measurement module (TT-NIRI) provides all of the benefits of Radiant's TrueTest software test sequencing platform to efficiently perform image-based measurements of 940 nm near-infrared (near-IR or NIR) LEDs, lasers, and Diffractive Optical Elements (DOE) used for:

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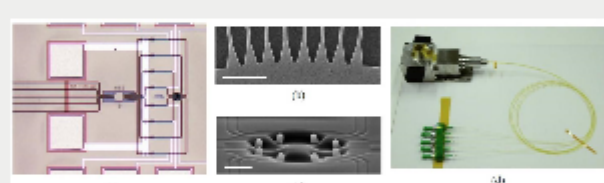
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More News

Optical Vortexes Could Help Meet Network Traffic Demands of Tomorrow

A multiplexer/demultiplexer module based on an optical vortex, built by scientists at Tokyo Institute of Technology, could be used to strengthen optical networks so they can meet increasingly heavy traffic demands.



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New Approach Facilitates Spectroscopy on Individual Molecules

A new spectroscopic measurement method, developed by scientists at the Technical University of Munich (TUM), determines the spectral properties of individual molecules, providing precise information about the interaction of single molecules with their environment.



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[Microrotors Trap Tiny Objects Without Exposing Them to Light](#) [Read Article](#)

Industry Events

OSA Biophotonics Congress 2019

April 14-17, 2019 - Tucson United States

In this OSA Congress, the latest advances in molecular probe development, life science imaging, and optical instrumentation will be presented. This year's plenary speakers, Valentina Emiliani and Aydogan Ozcan, will speak on optogenetics and deep learning-enabled microscopy respectively, and the OSA Technical Groups and OSA Foundation will host a series of special events. Image courtesy of OSA, The Optical Society.



[More Info](#)

Webinars

Going the Extra Mile with Contrast Optimization: A Practical Comparison of Micro-Imaging System Optimization

Thu, Mar 28, 2019 1:00 PM - 2:00 PM EDT

This webinar, presented by Zemax, will demonstrate the use of contrast optimization in the development of a micro-imaging system, along with a comparison using other optimization methods. It will also look at results using alternate lens design programs. Contrast optimization greatly simplifies the calculation of the modulation transfer function (MTF), giving the imaging system designers a better option for targeting imaging quality. Contrast optimization also improves the speed of MTF optimization, resulting in better design solutions.



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