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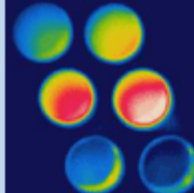
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Coating Provides 'IR Camouflage'
Military camouflage has taken a step forward with the discovery of a coating that, when heated past a certain temperature, looks colder to thermal cameras. Principal investigator Federico Capasso of Harvard University predicts that, with only small adjustments, the coating could be used as a new type of thermal camouflage or as a kind of encrypted beacon to allow soldiers to covertly communicate their locations in the field.

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Mixing Nanoparticles to Make Multifunctional Materials
A general approach for combining different types of nanoparticles opens opportunities for mixing and matching such particles with different optical, magnetic or chemical properties to form new, multifunctional materials.

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Acquisition Expands Gooch & Housego's IR Capabilities
The optical components maker extended its capabilities in infrared optics and coatings by acquiring Scotland-based precision optical components manufacturer Spanoptic Ltd.


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Quark Thermal Imaging Camera Core
FLIR Systems
The Quark thermal camera core from FLIR represents a quantum leap in the design of compact, uncooled LWIR technology. Quark provides high resolution thermal imaging performance and reliability, but weighs less than 10 grams (without lens) and is the size of a wine cork.

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Improve UV-Vis-NIR Spectrophotometer Performance
MOXTEK, Inc.
The Moxtek® Proflux® UVD260 and UVD240 analyzers improve UV-Vis NIR Spectrophotometer performance. They conserve space, allow an exceptionally wide cone acceptance angle, cover wavelength ranges 240 nm to 3.3 um, and have no infrared leakage issues as do Glan-Thompson (GTN) Prisms.

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Broad Spectrum Alignment Filter Eyewear
Kentek Corporation
Broad Spectrum Alignment Filter Eyewear used in applications where you want to dial in low power alignment across the visible light spectrum. Comes with a variety of frame options to suit all needs.

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Mid-IR Optical Isolators
Innovation Photonics
Quantum cascade lasers can be troubled by feedback. InnPho's optical isolators prevent reflections (feedback) from returning back into the laser. Now in production are wavelength-tunable mid-IR optical isolators operating at center wavelengths of 4.5 um, 8 um and 10.6 um. Typical transmission of ~90% and isolation of 500:1 to 1000:1.

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FEATURED VIDEO




PCO Tech - Photonics West Booth Tour
A booth tour of PCO-TECH at Photonics West 2013, where various working and static oem cameras were displayed. Including the pco.edge sCMOS mounted onto a Zeiss microscope, pco.edge color version, pco.pixelfly usb compact 14bit camera and pco.dimax HS4 the latest addition to the high-speed camera line. www.pco-tech.com

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WEBINAR




Rare-Earth Doped Fibers for Use in Fiber Lasers and Amplifiers
Monday, November 4, 2013 1:00 p.m. EST
FREE WEBINAR

The advances in performance of fiber lasers have been dramatic in the past 10 years, making fiber lasers a commercial business worth more than \$500 Million per year. All of this is made possible by the unique performance attributes of rare-earth doped silica fibers, which are at the heart of each of these laser systems. In this webinar, we will describe the key parameters of these fibers, including the use of large-mode-area (LMA) fibers for high-power CW lasers as well as pulsed fiber lasers, along with the key other fiber-based components needed to make a fiber laser. The common rare-earth dopants for silica fibers, namely Ytterbium, Erbium, Thulium and Holmium, will also be described, along with some of the commercially relevant devices that are enabled by these fibers.



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Raman Scattering Sped Up for Microscopy
Improvements to Raman spectroscopy using laser frequency combs allow multiple signals from different parts of a molecule – or even different molecules – to be monitored simultaneously using a single detector. The advance is seen as a major step toward the holy grail of real-time, label-free biomolecular imaging.

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CENSIS Appoints Interim CEO
CENSIS, a new innovation center for sensors and imaging systems based at the University of Glasgow, has named Dave Clark interim CEO, effective next month.

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207-nm UV Light May Reduce Surgical Infections
A narrow spectrum of ultraviolet light can destroy drug-resistant bacteria but is safe for human exposure, and may be a way to reduce the serious and stubborn problem of surgical wound infections.

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On this edition of the industry's **only weekly newscast**: a new coating tricks IR cameras, Raman scattering gains speed in microscopy, and we mark manufacturing month with a visit to Trumpf. Hosted by Photonics Media's Laura Marshall and Melinda Rose.

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Looking for LEDs and other Light Sources products? Search the Photonics Buyers' Guide or Browse these product categories:

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- Monochromators
- Ultraviolet Light Sources
- Broadband Light Sources
- Infrared Light Sources
- Visible Light-Emitting Diodes

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Color Machine Vision
Matrix Imaging
Color machine vision's increasing popularity can be attributed to the prevalence of digital cameras with color image sensors, the computing power and interfaces necessary to handle data from color images, and the fact that more users are becoming familiar with machine vision technology. These factors combine to make color machine vision an area of mounting interest, which despite its challenges, provides unique benefits to manufacturing control and inspection.

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Abstracts due 9 December 2013
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Thales Consolidates US Defense Businesses
Through acquisitions and intracompany mergers, Thales Communications consolidated its US defense and security-related businesses and changed its name to Thales Defense & Security, effective Oct. 1.

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Room-Temp. Nanodiamond Acts as Optical Switch
A single nanodiamond operating at room temperature can be used as an ultrafast optical switch, a key component for future light-based information processing and computing.

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Osram Appoints New CEO for the Americas
The light manufacturer appointed Jes Munk Hansen to lead Osram Americas and Osram Sylvania, effective immediately. He succeeds Rick Leaman, who left the company to pursue other interests.

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CO-LOCATED WITH 2014 Defense+ Security SPE DSS
Conferences & Courses 5-9 May 2014
DSS Expo 6-8 May 2014
Location Baltimore Convention Center Baltimore, Maryland, USA

Industry Events

Neuroscience 2013 - November 9-13, 2013 - San Diego, Calif.
Visit Photonics Media at Booth 117
Neuroscience 2013, the Society for Neuroscience's 43rd annual meeting, is the premier venue for neuroscientists to join more than 30,000 colleagues from 80-plus countries at the marketplace of ideas and tools for global neuroscience. Attendees will discover the latest science and cutting-edge research, forge collaborations with peers, have access to resources for funding and career development, and explore new tools and technologies. The science and networking opportunities are unmatched, with nearly 16,000 scientific presentations, 600 exhibiting companies, and dozens of career development opportunities.

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