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Thermal Imaging Helps Nab Boston Bombing Suspect

The photonic technology of thermal imaging was literally in the spotlight on the evening of April 19 as law enforcement officials used it to monitor and capture suspected Boston Marathon bomber Dzhokhar Tsarnaev. A Massachusetts State Police helicopter equipped with a forward-looking infrared camera “picked up the heat signature of the individual, even though he was underneath what appeared to be the shrink-wrap, or cover, on the boat itself,” state police officer Timothy Alben told reporters shortly after the arrest. “The helicopter was able to direct the tactical teams over to that area and, ultimately, take him into custody.”

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FEATURED VIDEO

PCO.

PCO-TECH Inc. - Photonics West 2013 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 H54 the latest addition to the high-speed camera line. www.pco-tech.com

Plasmon Waves Control Light

A nanoscale device that converts optical signals into surface plasmon polaritons can distinguish between different movements of polarized light and precisely manipulate the signals in one direction or another without damaging them, say engineers at Harvard.

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Samsung Licenses DigitalOptics Face Tracking Software

The company signed a multiyear license agreement to use DOC's Face Detection and Face Tracking software in Samsung Galaxy S4 smartphones.

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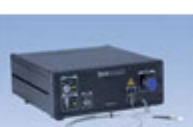
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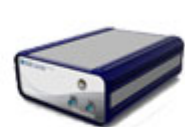
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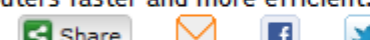
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Germanium Made Laser-Compatible

A manufacturing technique that alters the optical properties of germanium – an element incompatible with lasers – has rendered the semiconductor laser-compatible through high tensile strain. The discovery could enable microprocessor components to communicate using light, making future computers faster and more efficient.

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Bridgelux Selling GaN-on-Si Tech to Toshiba

The deal expands a licensing and manufacturing partnership the companies signed last year. Toshiba previously demonstrated an 8-in. GaN-on-Si LED wafer and mass production of white LEDs using Bridgelux's crystal growth and LED device technologies.

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System Aims to Concentrate Power of 2000 Suns

The prototype high-concentration photovoltaic thermal system developed by IBM Research Zurich and partners uses a large mirror-faceted parabolic dish attached to a sun-tracking system, which positions the dish at the best angle to capture solar energy.

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In this edition of the industry's premier weekly newscast: bad guys can run, but they can't hide from thermal imaging; on-chip optics makes advances, a solar collector pulls in the power of 2000 suns, and a new system lets you read as you run. Hosted by Photonics Media's Laura Marshall and Melinda Rose.

PHOTONICS buyers' guide

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Space Telescope Finds 3 Super Earths

Three super-Earth-sized planets in two newly discovered planetary systems are in a “habitable zone” – a distance from their star suitable for supporting liquid water – and potentially could support life as we know it, according to NASA's Kepler space telescope.

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Avago to Acquire CyOptics

The semiconductor device manufacturer said it will acquire privately held CyOptics Inc. of Breinigsville, Pa., for \$400 million in cash to strengthen its fiber optics product portfolio for emerging 40G and 100G enterprise and data center applications.

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Fraunhofer Center for Applied Photonics Officially Opens

The Fraunhofer Center for Applied Photonics, based in the University of Strathclyde's new Technology and Innovation Center, will be a hub for industry-driven laser research and technology for the security, health care, energy and transport industries.

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Industry Events

SPIE Defense, Security and Sensing 2013 - April 29 - May 3, 2013 - Baltimore, MD

Visit Photonics Media at Booth 1208



SPIE Defense, Security and Sensing, the industry's leading event for the latest technologies and equipment in sensing, imaging, optics and industrial applications, features 2325 technical presentations, 500 exhibitors and 55 short courses. Industry events will include a symposium-wide plenary presentation delivered by DARPA director Arati Prabhakar, a National Security Sensor Challenges special session, a workshop on early stage technology commercialization, panel discussions and a poster reception.

The 2013 event will feature more than 2325 presentations under 55 co-located conferences covering the latest developments in 12 different program tracks, including imaging and sensing, laser sensors and systems, sensor data and information exploitation, emerging technologies, and unmanned, robotic and layered systems.

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