

This Week In PHOTONICS

PHOTONICS MEDIA

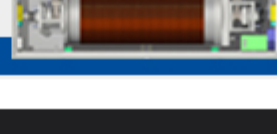


sponsor



A better excimer laser. The IPEX-700.

www.lightmachinery.com



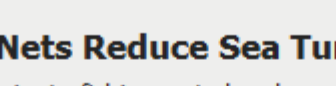
Top Stories

Artificial Dielectric-Based Lens Enables Efficient Terahertz-Wave Control

Future terahertz-wave devices for communications and imaging could benefit from a lens based on artificial dielectrics. Terahertz radiation (about 100 to 10,000 GHz) is a relatively unexplored slice of the electromagnetic spectrum but it holds the promise of countless new imaging applications, as well as wireless communication networks with extremely high bandwidth. However, few off-the-shelf components are available for manipulating terahertz waves.

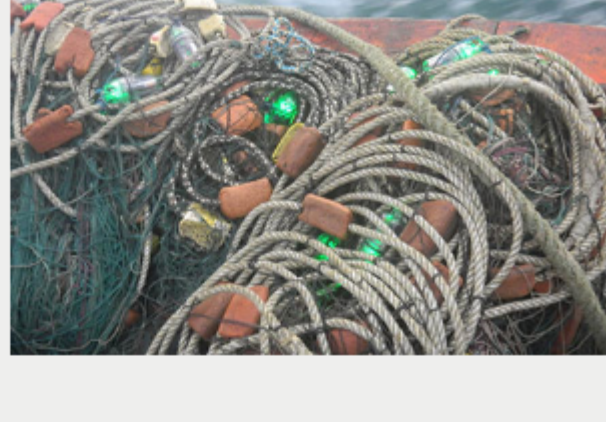


[Read Article](#)



LED Fishing Nets Reduce Sea Turtle Deaths

Using LEDs to illuminate fishing nets has been shown to be a cost-effective means of dramatically reducing the number of sea turtle deaths resulting from entanglement with nets. Researchers from the University of Exeter and the Darwin Initiative executed the study in Sechura Bay, Peru. They found that attaching green LEDs to gillnets used by a small-scale fishery reduced the number of green turtle deaths by 64 percent without reducing the intended-catch size.



[Read Article](#)



University of Bath Installs Eulitha's Photolithography System

Lithography startup Eulitha AG has installed one of its PhableR 100 photolithography systems at the University of Bath, England. The university purchased the system as part of a comprehensive research program designed to develop advanced manufacturing techniques for nanoengineered semiconductors, particularly GaN.



[Read Article](#)



APRIL 3-6, 2017 | CHICAGO
AUTOMATE • 2017

Connect with leading suppliers and experts in vision!
REGISTER TODAY!

sponsors

SMART STRUCTURES NDE

Applied technologies of advanced materials, smart sensor networks, non-destructive evaluation, and structural health monitoring.

REGISTER TODAY

Conferences & Course: 25-29 March 2017
Portland Marriott Downtown Waterfront Hotel
Portland, Oregon, USA

Cobolt Ships 10,000th Laser

Laser manufacturer Cobolt AB said it shipped its 10,000th laser in February. That unit, a Samba 532-nm, 300-mW single frequency laser, was delivered to Sam Johnson from the Photonic Nanomaterials Group at the University of Oxford.



[Read Article](#)



Physik Instrument Promotes Dave Rego to Eastern-US Sales Director

Motion control and positioning technology firm PI (Physik Instrumente) LP has promoted Dave Rego to director of sales for the U.S. Eastern Region. He has been handling PI's key industrial accounts on the East Coast for several years, and brings a substantial and knowledgeable background in precision motion technology, leadership, and project management skills, PI said.



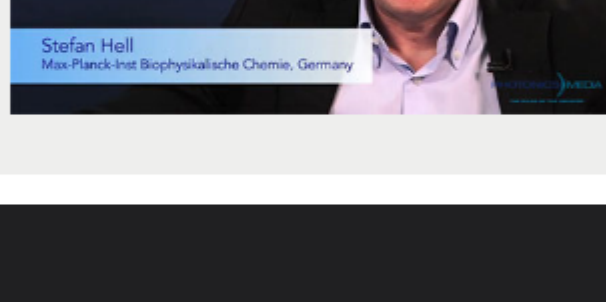
[Read Article](#)



Featured Video

OSA Centennial - Stefan Hell, Max Planck Institute

The Optical Society members share their reflections on 100 years of optics innovation, what inspired their interest in the field and how OSA has impacted their career.

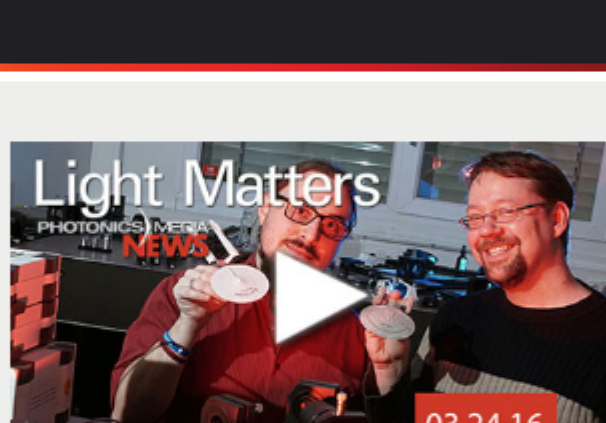


[Watch Now](#)

Light Matters

Beam Me Up, Scotty!

On this month's show, we discover that teleporting is more than just science fiction - that's according to physicists at the University of Jena in Germany who have, for the first time, demonstrated that teleportation of elementary particles is actually possible. Photonics Media Managing Editor Michael Wheeler discusses technology inspired by the biological systems of octopuses and other cephalopods; and he offers a preview of the upcoming April issue of Photonics Spectra. We also learn how the photonics industry in Rochester, N.Y., is continuing to expand.



[Watch Now](#)

More Headlines

Xenics, Laser Components Sign N. America Distribution Deal [Read Article](#)

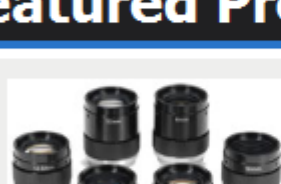
Merck, Polysolar, CPI Partner on Smart Windows [Read Article](#)

Photonics Industries Expands Presence in South China [Read Article](#)

Fonon's Laser Cutting Technology Advances [Read Article](#)

Continental AG Acquires Auto Lidar Division of ASC [Read Article](#)

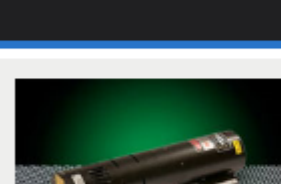
Featured Products



High Resolution Lenses

Universe Kogaku (America)
Universe Kogaku designs and manufactures high resolution lenses with locking focus to help maintain vision system calibration. These VX Series lenses are well suited for rugged conditions in machine vision, inspection, instrumentation, and more.

[More Info](#)



Precisely the Right Semiconductor Laser

National Laser Company
The NLC Cylindrical laser is one of the most robust lasers in the industry for your Semiconductor Inspection Tool. Known as one of the highest quality replacement lasers, the NLC Cylindrical laser outlives and outperforms competitive models.

[More Info](#)



Standard & Custom Opto-Imaged Standards

APPLIED IMAGE Inc.
APPLIED IMAGE is a global leading manufacturer of precision OPTO-Imaged standards and is internationally known for our Custom Design and Manufacturing capabilities, PHOTOMask Services, Custom BALL Lenses and Sub-Assembly Services.

[More Info](#)



Polarization Cameras for Remote Applications

4D Technology
PolarCam Snapshot Micropolarizer Cameras capture images of multiple polarized angles from each video frame, enabling a range of image enhancement techniques for surface mapping, scene discrimination, autonomous vehicle vision and remote sensing.

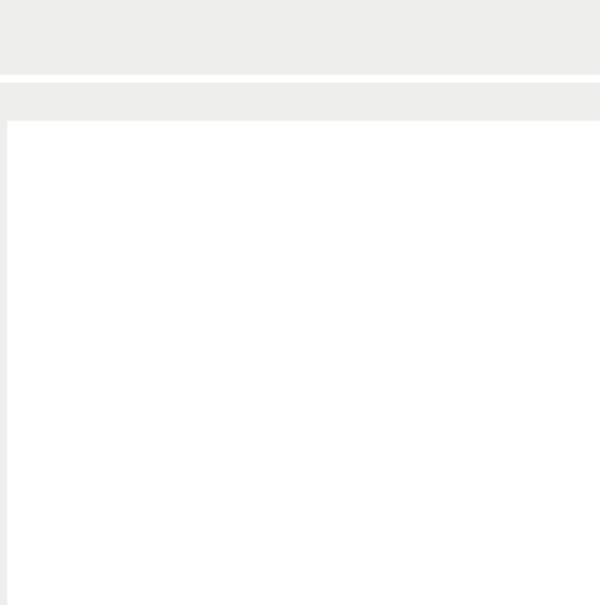
[More Info](#)

sponsors



International Trade Fair for Laser Material Processing

May 31 – June 02, 2016
Messe Stuttgart



Industry Events

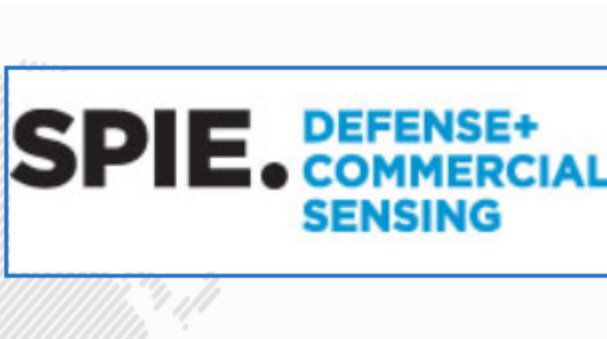
SPIE Defense & Commercial Sensing

April 17-21, Baltimore, Md.

Photonics Media Booth: 825

Technologies to be showcased during the exhibition include IR sources, detectors and systems; optical components such as specialized lenses and coatings; chemical and biological sensing; high-speed imaging and sensing; robotics; displays; and photonic, multispectral and hyperspectral sensors.

[More Info](#)



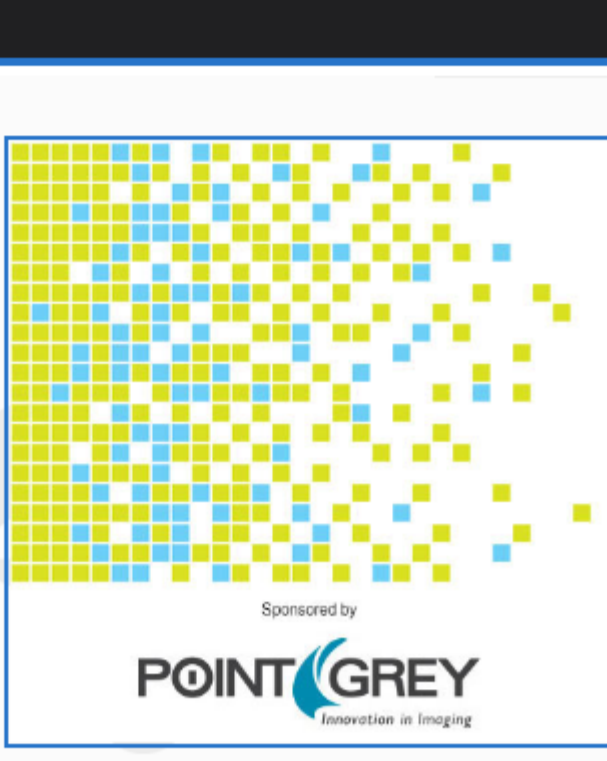
Webinars

Selecting the Right Camera for Your Application

Thu, Apr 7, 2016 1:00 PM - 2:00 PM EDT

Selecting the right camera for your next project can be a daunting challenge. There are now thousands of different cameras made by numerous companies worldwide. What are the important features that must be present in a camera so that it will be able to provide the images that you need? What else do you need to worry about in order to ensure success with your chosen camera? These questions can be answered by following a straightforward method to narrow the camera choices down to a select few candidates.

[Register Now](#)



PHOTONICS buyers' guide®

Looking for Test, Measurement and Positioning products? Search PhotonicsBuyersGuide.com, or browse these product categories:

[Calibration Standards](#)

[Infrared Test Equipment](#)

[Near-Infrared Spectrometers](#)

[Photometers/Radiometers](#)

[Piezoelectric Positioning](#)

[Twyman-Green Interferometers](#)



CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *Industrial Photonics*, *BiPhotonics* and *EuroPhotonics*). Please submit an informal 100-word abstract to Managing Editor Michael Wheeler at Michael.Wheeler@Photonics.com

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949
© 1996 - 2017 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office.
Reproduction in whole or in part without permission is prohibited.