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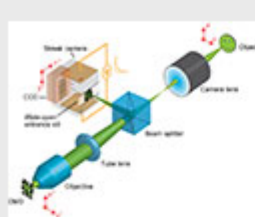
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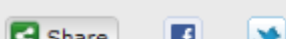
Thursday, December 11, 2014

### Modified Streak Camera Captures 100B Frames Per Second



"For the first time, humans can see light pulses on the fly," said professor Dr. Lihong Wang of Washington University in St. Louis. "Because this technique advances the imaging frame rate by orders of magnitude, we now enter a new regime to open up new visions."

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### FEATURED VIDEO

PRISM AWARDS FINALIST

**MANUFACTURING**

**FAFL**

**LZM-100 LAZERMaster**

**AFL - LZM-100 LAZERMaster**  
The LZM-100 LAZERMaster produces a clean and stable heat source via a CO2 laser to perform splicing, adiabatic tapering, lensing or other glass-shaping operations. The LZM possesses large-diameter capabilities up to 2.3 mm and long tapering capabilities up to 150 mm.

### Corning to Acquire Fiber Optics Business from Samsung

Looking to expand its presence in Asia, Corning Inc. plans acquire Samsung Electronics Co.'s fiber optics business early next year.

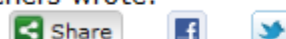
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### QD Solution Provides Spray-On Solar Power

The spraying method could be "integrated to large-area manufacturing processes and can be used to make solar cells on unconventional shapes," the researchers wrote.

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### Products on PhotonicsBuyersGuide.com

#### Fiber Optic Components

**Gould Fiber Optics**  
Gould Fiber Optics is a leading manufacturer and supplier of premium passive fiber optic components and integrated modules to the OCT, laser, sensors and telecommunications industries.

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#### Beamsplitters

**A.R.W. Optical Corporation**  
A.R.W. Optical Corporation manufactures custom, standard and OEM optical components and coatings in the UV to IR region. Provides rapid prototyping through volume production for all industries.

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#### Centrifuges for Continuous Filtration

**Sanborn Technologies**  
Sanborn Technologies manufactures centrifuge systems for filtering and recycling grinding coolants used in optical processes. Complete systems including tanks, pumps and chillers are available.

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#### Diode Laser Lens Assemblies

**Universe Kogaku (America)**  
Universe Kogaku designs and manufactures lenses for diode laser collimators, CD and DVD players, laser pointers, laser levels, laser surface inspection systems and positioning and measuring equipment.

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### Photonics Innovators Named 2015 Prism Awards Finalists



Light-based products that pinpoint cancer cells, enable 3-D manufacturing at the micro-nanoscale and improve highway safety are among finalists in nine categories for the 2015 Prism Awards for Photonics Innovation.

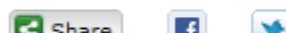
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### Biospeckle Laser Method IDs Fruits' Peak Ripeness

Imagine being able to perfectly time your apple harvest for optimal ripeness. That is now possible with a new laser technique.

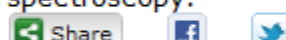
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### Thales, ICFO Partner on MIR Lasers

The lasers could be used in IR spectroscopy and biomedical imaging, as well as particle acceleration, attoscience and tabletop coherent x-ray imaging and spectroscopy.

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In this edition of the industry's **premier weekly newscast**: We show you how UV pulses could help stop the spread of the Ebola virus, how lasers can determine the ripeness of fruit, how Blu-ray discs can augment solar panels and how new camera technology captures laser pulses in slow motion. We'll also introduce you to some of the finalists for this year's Prism Awards.

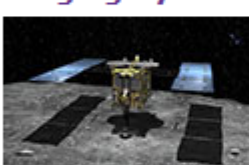
### 'Digital' Metamaterials Constructed from the Bit Up

There could be a simpler way to create metamaterials, ultimately leading to light-bending invisibility cloaks and other seemingly impossible devices.

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### Imaging Systems to Explore Asteroid Composition Close-Up



Asteroid Explorer Hayabusa2 is on a mission to explore the origins of the solar system by studying the makeup of asteroid 1999 JU3.

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### International Project Tackles Fiber Solutions for Internet Bandwidth Crunch

Establishing data connections of at least 400 Gb/s per channel is the project's main goal. This will involve combining state-of-the-art multicore optical fibers with space division multiplexing (SDM) networks to produce highly scalable and flexible optical transport networks.

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### WHITE PAPER

#### Power Technology's iMAT® DPSS Laser Platform Ideal for Raman Spectroscopy

Power Technology, Inc.

Power Technology's iMAT® series of DPSS lasers are inherently beneficial to the Raman Spectroscopy industry because of its patented technology which inherently produces actively stabilized single frequency wavelengths at 532 nm and 1064 nm. This revolutionary technology earned international recognition by winning the Frost & Sullivan European Diode-Pumped Solid State Laser Technology Innovation of the Year award in 2009.

[DOWNLOAD WHITE PAPER >>](#)

### Industry Events

#### Photonics 2014: 12th International Conference on Fiber Optics and Photonics

- Dec. 13-16, 2014 · Kharagpur, India



The Optical Society's Photonics 2014: 12th International Conference on Fiber Optics and Photonics is a biennial event that allows researchers from around the world to showcase a wide range of photonics work, from fiber optics and materials for photonic devices to next generation optical components and devices for optical networks.

Several researchers are scheduled to speak during the event; among them, Philip J. Russell of the Max-Planck Institute who will discuss scientific applications of microstructured optical fiber.

The conference will focus on fiber and guided wave photonics; lasers and nonlinear optics; nanophotonics, plasmonics and metamaterials; quantum optics, information and processing; optical communication and networks; biophotonics; and photonic materials and devices.

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