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**MIDORI™ ULB 35i LED Fiber-Optic Illuminator** **USHIO**

# PHOTONICS spectra

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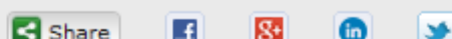
March 2016

## For Data Center Challenges, Silicon Photonics Solutions



Data centers and high-performance computing need faster, less costly and more energy-efficient communication, attributes increasingly difficult to achieve with copper connections. Where distances hover around a kilometer or so, and cost must remain low, silicon photonics could be the answer for today's data center bottlenecks.

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## LED Materials Bring White Light and More

Whether working to create a white LED that consumers like — and that is affordable and sustainable — or finding new applications for LEDs at opposite ends of the spectrum, researchers and manufacturers are finding answers in new materials and in using known materials in new ways.

[Read Article >>](#)



## New Frontiers in Nanophotonics: Diamond Optical Windows Show Promise for High-Power Lasers



The explosion of demand in the telecom market in the 1990s spurred numerous advances in current and advanced coating methods. These developments led to denser coatings, featuring less porosity, and significantly cleaner coating chamber loading and unloading environments. With materials suppliers providing more pristine substrates, and coaters developing denser coatings, the industry developed faster and faster devices.

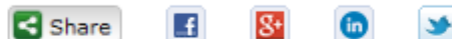
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## Sensing with Fiber Bragg Gratings in Rapidly Rotating Structures

Long-used in the telecommunications industry, fiber Bragg gratings are now used to measure the strain and temperature of buildings, roads and bridges. A new technique involving collimators and a series of the fiber Bragg gratings can monitor strain in rapidly moving components like helicopter blades and turbines.

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### Featured Products



#### Extra Large Mode Area Fibers

Nufem

Nufem is expanding its broad range of active triple clad fibers with Extra Large Mode Area (XLMA) fibers using Heraeus' proprietary process for making large core doped glass.

[More info >>](#)



#### Product Expansion-Visible Diode Lasers

DILAS Diodenlaser GmbH

Fiber-coupled, multi-single emitter module offered in two visible wavelengths -2.4W at 405nm and 3W at 450 nm into a 200um fiber core with an NA 0.22.

[More info >>](#)

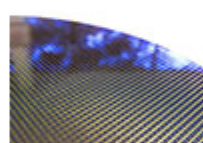


#### Midori™ Fiber Optic LED Light Source

USHIO America, Inc.

The Midori™ ULB-35i LED light source series combines state-of-the-art, solid-state illumination technology with Ushio's distinctive optical design to create a compact and lightweight fiber-optic lightbox.

[More info >>](#)



#### Photodiodes

Opto Diode Corporation

Opto Diode Corp. has announced the NXIR series of photodiodes, designed for back-facet laser-monitoring applications that require improved performance in the NIR spectrum from 700 to 1100 nm.

[More info >>](#)



#### BiTec UV Spectroradiometer

Gigahertz-Optik, Inc.

Gigahertz-Optik's BTS2048-UV is a compact sized spectroradiometer for absolute UV measurement in the lab, factory or field.

[More info >>](#)



#### Compact Narrow Linewidth 785 nm Lasers

Cobolt AB

Cobolt AB, Swedish manufacturer of high performance lasers, introduces the Cobolt NLD™ 785 nm frequency stabilized diode laser with up to 500 mW and including an integrated optical isolator.

[More info >>](#)



#### LAZERMaste™ Laser Splicing System

AFL

AFL's LAZERMaste is a glass processing and splicing system that uses a CO2 laser heat source rather than electrodes, ensuring repeatable performance and low maintenance, and eliminating electrode or filament maintenance and instability.

[More info >>](#)



#### Arbitrary Waveform Generator

Zurich Instruments AG

With the UHF-AWG 1.8 GSa/s Arbitrary Waveform Generator, Zurich Instruments presents a unique solution for the generation and acquisition of complex signals.

[More info >>](#)



#### ILT2400 Optometer with Touchscreen

International Light Technologies

ILT is proud to announce the release of the NEW ILT2400 Hand Held Optical Meter with Touch Screen Display and 4 GB of internal memory.

[More info >>](#)



#### Sub-miniature Resonant Scanner

Electro-Optical Products Corp.

The fixed frequency resonant optical scanner deflects a light beam with a continuous sinusoidal motion.

[More info >>](#)

### WEBINAR

## Selecting the Right Camera for Your Application

April 7 at 1:00 p.m. EDT

FREE WEBINAR

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](#)

### Industry Events

**SPIE Defense & Commercial Sensing 2016** - April 17 - 21, 2016 · Baltimore, Md.

Visit Photonics Media at Booth: 825



Technologies to be showcased during the exhibition include infrared 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, multi-spectral and hyperspectral sensors.

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Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine *Photonics Spectra*. Please submit an informal 100-word abstract to Managing Editor Michael Wheeler at [Michael.Wheeler@Photonics.com](mailto:Michael.Wheeler@Photonics.com)

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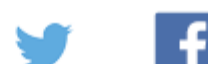
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THE PULSE OF THE INDUSTRY



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**AFL**

## Optical Fiber Recoaters



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**NUXLMA**

Extra Large Mode Area Triple Clad Active Fibers for Lasers



[Click Here to View Fibers](#)

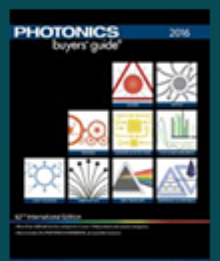
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[Detector Arrays](#)  
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Boston, Massachusetts USA

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Nürnberg, Germany

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