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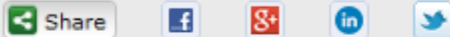
September 2015

Optics, Photonics Programs Are Lighting the Way



While schools nationwide are welcoming students for the start of the new academic year, we profile three of the country's top university optics and photonics programs — oldest to newest — that are shaping the future of the photonics industry.

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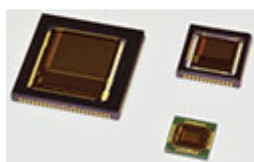
Optimizing the Design of Aspheric Lenses

The second in a two-part series on aspheric lens manufacturing discusses considerations in maximizing the design of a lens for its intended application. With the understanding of aspheric lens manufacturing provided in part one (Photonics Spectra, May 2015), designers have the tools to optimize their aspheres; the next step is to understand how to specify and tolerance the asphere so it can meet its application's requirements.

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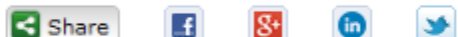


Advances in CMOS Image Sensors Open Doors to Many Applications



Since the invention of charge-coupled devices (CCDs) in the 1970s, they have dominated the area of scientific and industrial imaging applications. However, in the 1990s monolithic complementary metal-oxide semiconductor (CMOS) arrays emerged as a serious alternative to CCD image sensors.

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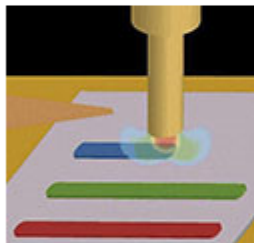
New CO Laser Technology Offers Processing Benefits

Dramatic new technological advances have greatly increased the reliability and power output of CO lasers, opening up their use in a wide range of new applications.

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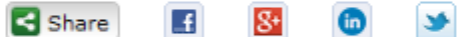


Lighting, Displays and More Go Organic



From lighting and television screens to displays, smart devices and light-absorbing windows, OLEDs are turning up in an increasing number of applications. Many companies are taking advantage of the opportunities they provide, working on more efficient, affordable solutions to allow greater manufacturing output.

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Featured Products



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 with very high output efficacy that is ideal for industrial applications where space is a premium.

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Frame Grabber

Teledyne DALSA Teledyne Dalsa (part of Teledyne Technologies Corp.) has announced the Xtium-CL MX4 frame grabber, a Camera Link-compatible image processing board that delivers high-speed images to host memory.

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Controller for Piezo LEGS® Motors

MICROMO MICROMO is pleased to announce that PiezoMotor Uppsala AB (Sweden), leading provider of linear and rotary high end positioning systems, is announcing the latest drive option for the high precision Piezo LEGS® motor series.

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3D Vision System

Canon U.S.A., Inc. Canon U.S.A. Inc. has announced the RV300, RV500 and RV1100 3D machine vision systems.

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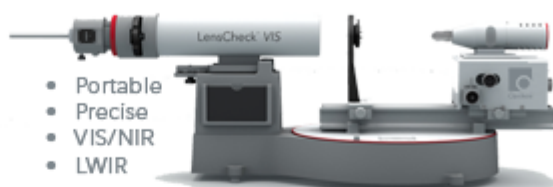
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