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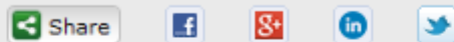
October 2015

### Position, Position, Position



New standards could provide positioning and motion systems with higher dynamic path-following capabilities than existing and earlier systems. This may become critical for applications in precision metrology, manufacturing and others, where accuracy and repeatability are key.

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### Regulations Aim at Illegal Laser Activity

The flashing of flying aircraft with lasers is not only dangerous to the pilot and any passengers, it also is illegal due to the risk of grave harm. Authorities are cracking down with harsh penalties.

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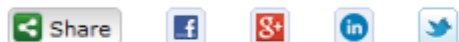


### Optics Fabrication: Changes, Challenges and Progress



Industry experts share their big-picture views of the global optics market, from innovations and developments to current challenges and opportunities that lie ahead.

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### Imaging Optimization Drives Multispectral Apps

Imaging limitations inherent to traditional machine vision systems can be overcome through the combination of different types of imaging sensors, as well as creative compensatory techniques.

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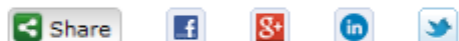


### Design-Driven Manufacture: 3D Printing is Reshaping Industry



From watch cases and spikes on running shoes, to rocket engine components and implants for the human body, 3D printers can be used to make virtually anything out of virtually anything. Materials are printed layer-by-layer into such intricate devices that designers and manufacturers are being forced to rethink their entire approach to construction.

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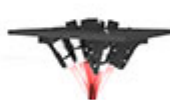
### Featured Products



#### OmniCure® AC8225-F UV LED Fiber Curing Solution

Excelitas Technologies Corp. OmniCure® offers innovative light curing solutions that provide leading manufacturers worldwide with the most advanced, simple-to-use and reliable UV curing technology.

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#### Meridian™ Production Camera Testing

Optikos Corporation The proliferation of small aperture camera technology in small aperture devices such as webcams, vehicle cameras, and cell phones has created a need for high-speed optical test equipment that is capable of qualifying the alignment and focus of a camera in just a single snapped frame.

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#### HELIOS® Uniform Sources

Labsphere, Inc., Photonics Labsphere announces HELIOS® Uniform Sources for Luminance and Radiance, combining the best features of Labsphere's 35 years of imager calibration expertise.

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#### Erbium/Ytterbium Doped Fibers

Nufern Nufern has announced the release of a new line of Erbium:Ytterbium (Er:Yb) co-doped fiber products tailored to offer high performance and versatility in CATV and Lidar laser and amplifier applications.

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#### Motorized Large Spheres

Gooch & Housego (Orlando) Gooch & Housego Orlando is pleased to announce that we now offer motorized 2 meter (76") diameter integrating spheres for total spectra and luminous flux measurements of luminaires and other large lighting products.

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#### World's Smallest UltraHD 4K Camera

Toshiba Imaging Systems Toshiba Imaging's new IK-4K (3840 x 2160) UltraHD 4K video camera delivers world-class UltraHD performance from the smallest three-chip package available.

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#### Nocturn GigE Low-Light Color Camera

PHOTONIS USA, Inc. PHOTONIS Digital Imaging introduces a new Gigabit Ethernet Color Low Light camera optimized for low-light conditions.

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#### Sub-miniature Resonant Scanner

Electro-Optical Products Corp. The fixed frequency resonant optical scanner deflects a light beam with a continuous sinusoidal motion.

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