



## PHOTON







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#### Bandwidth Demands Drive Fiber Optics Advances



Fiber optics connects the world, carrying calls and data. With bandwidth demand growing, manufacturers are working to up transmission rates, cut costs and otherwise improve product performance. However, achieving these goals may require changing long- and short-haul fiber, while at the same time overcoming manufacturing-related challenges.

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Polarizing Beamsplitters

Thin-Film Deposition

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utilizing internal flat

#### Additive Manufacturing: The Laser Source Is Critical



Using 3-D printing to make components to specification requires fine control of laser beam power, spot size and focal point.

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#### Applications Expand for Photon Counting



The prospects of photon-counting imaging are as diverse as they are promising. From space-debris monitoring, to telecommunication satellites and shuttle missions, to the advent of powerful surgical tools to treat cancer, its applications are numerous and expanding.

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A scanning laser Doppler vibrometer experiment shows the effects of active vibration damping.

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#### Micro Thermal Camera Opens Applications to Consumers



Thermal imaging is hardly new, but most of us don't carry thermal imagers in our pockets. Not yet. But it could happen soon, thanks to a new thermal infrared camera so tiny, low-power and inexpensive that it can fit in a cellphone or other mobile device.

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Tech Pulse Light Speed GreenLight

**Editorial Comment Lighter Side** 

## Products from this Issue



## Laser Diode Driver

IXYS Colorado The PIM-Mini from IXYS in an aircooled pulsed current source designed to drive laser diodes, bars and arrays.

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## **Polarizing Beamsplitters**

Precision Glass & Optics New polarizing beamsplitter cubes from Precision Glass & Optics split up the s and p polarization of light with an extinction ratio of Tp/Ts 200:1 and higher.

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## Sapphire Wafer Carriers

Meller Optics, Inc. Sapphire wafer carriers from Meller Optics Inc. are more durable than quartz and are impervious to polishing abrasives and solvents. More info >>



#### Positioning System PI (Physik Instrumente) L.P., Piezo Nano Posiioning A new hexapod system from Physik Instrumente is a 6-axis positioning system with a 1000-lb load capacity.

More info >>

## Industry Events



Photonex 2014 - October 15-16, 2014 · Ricoh Arena, Coventry, England ●●●●●● The UK's showcase event dedicated to photonics and light technologies now incorporates Vision UK and highlights for 2014 include industrial vision, machine vision, scientific and hyperspectral imaging. More info >>

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