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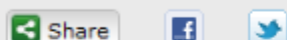
July 2014

Positioning Systems Advances Could Herald Smart-Factory Era



Optical positioning systems are poised to play a leading role in the fourth industrial revolution. Positioning systems are essential to ensure precision engineering in a number of manufacturing industries from lithography and inspection to calibration, measurement and testing.

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Slow Light: Moving Out of the Lab

When put into practical use, slow-light-enhanced technologies will improve the performance of photonic networks and optical sensors. Photonic crystals will play a key role in the transition, as they hold promise for integration.

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A Better Small View Can Yield a Big Impact

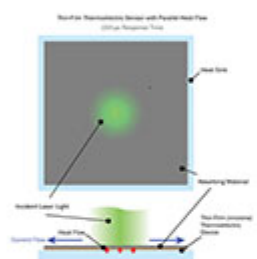


Microscopy upgrades that synthesize various sources of data are benefiting materials research. As things get smaller, faster and cheaper, the stakes get higher – especially for the materials that underpin these advances.

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Novel Laser-Power Sensor Improves Process Control



A new type of detector for laser output characterization enables real-time process control in embedded systems. Lasers process a wide range of materials in an extraordinarily diverse array of applications that often share a common requirement: the need to regularly measure laser output characteristics such as average power, pulse energy, pulse shape or beam profile to ensure optimum and consistent processing.

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Optical Filters Open Up New Uses for MWIR, LWIR Systems

The future for photonics imaging is bright in a previously dark wavelength regime: The ability to image 'invisible' features such as thermal profiles, gases and other environmental constituents in a commercially viable manner has begun to open up new application areas for mid- and long-wave infrared sensor systems.

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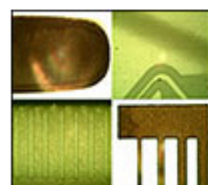
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Laser Diode System
Frankfurt Laser Company
Frankfurt Laser Co. has introduced the FLC300 laser diode system for applications in fiber optic communications.
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Adjustment Screws
Newport Corporation
Designed for demanding vacuum environments, the AJS-V6 series of adjustment screws from Newport are low outgassing and 10⁻⁶ Torr compatible.
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Micromachining System
IPG Photonics Corp.
IPG Photonics Corp. has introduced the IX-200-F, a fiber laser micromachining system for general-purpose, R&D and batch-scale production applications.
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AOTF-NIR Spectrometer
Brimrose Corp.
Brimrose Corp. has introduced the Luminar 4060 spectrometer for various applications in test and measurement.
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