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OPO-Based Photoacoustic Spectroscopy Speeds UP Gas Analysis



High mid-IR output power from an optical parametric oscillator teams up with novel cantilever-enhanced photoacoustic measurement technology to offer extreme sensitivity and selectivity in industrial gas analysis and monitoring.

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Optical Delay Lines: Key to Time-Resolved Measurements







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To obtain an accurate means of creating reliable delays in any time-resolved spectroscopy or dynamic experiment, several factors about the delay line stage must be considered to reduce or eliminate errors associated with linear stages.

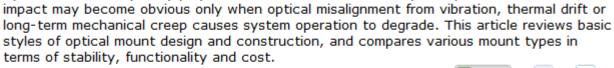
Optical mounts frequently play a critical role in overall laser system performance, but their

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Mounting Precision Enhances Laser Performance

terms of stability, functionality and cost.

Active Alignment Techniques Improve Lens Centering An optomechanical engineer faces many challenges when assigning tolerances for precision lens assemblies. Beginning with a functional requirement for optical centration, the engineer must determine mechanical tolerances for the various lens and housing components. To avoid overspecifying such tolerances, it is helpful to understand alignment and assembly

processes that can achieve different levels of accuracy in the resulting optical centration. Read Article >>



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Computer-controlled fiber alignment engines help process engineers achieve higher throughput in photonics packaging applications. Fiber alignment used to be a tedious manual task, back before the telecom boom. But automated fiber aligners have changed all that.

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Tech Pulse Light Speed GreenLight

Editorial Comment Lighter Side

Products from this Issue



Vacuum Cooling CCD

Raptor Photonics Ltd. Raptor Photonics, a global leader in the design and manufacture of high performance digital cameras has launched the Eagle V, a "best in class" deep cooled vacuum based CCD using Raptor's revolutionary vacuum technology PentaVac™.

More info >>



New Outstanding **Product Line**

C-Flex Bearing Co., Inc. FLEX PIVOT: Frictionless Bearings or Flex Pivot Bearing utilizes internal flat crossed springs, capsuled in a cylindrical housing to provide precise rotation with low hysteresis and no frictional losses.

More info >>



Low-Profile Photocouplers

Toshiba Imaging Systems Toshiba America Electronic Components Inc. offers a new line of low-profile, rail-to-rail output gate-drive photocouplers.

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Fiber Preparation Machines

New automatic preparation machines from AFL allow technicians to strip, clean and cleave fibers in 18 to 21 seconds. More info >>

Industry Events

SPIE Photonics West - Feb. 7 – 12, 2015 · San Francisco, CA



SPIE. PHOTONICS Present your work at Photonics West, the laser, photonics, biomedical optics conference: 21,000 attendees, two exhibitions, 1250 exhibiting companies, and 4700 papers on biomedical optics, biophotonics, translational research, industrial lasers, 3-D printing, optoelectronics, microfabrication, MOEMS-MEMS, displays, and more. More info >>

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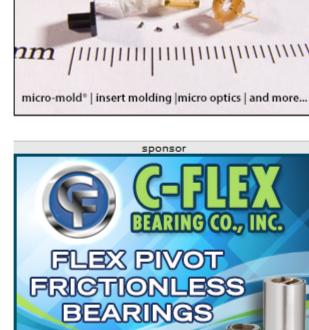
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PHOTONICS buyers' guide

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A flexure based bearing, utilizing internal flat crossed springs, capsuled

in a cylindrical housing.

Cooled CCD Cameras Fiber Optic Bundles for <u>Imaging</u> <u>Imaging Arrays</u> Linear Image Sensors **Motion Analysis** Cameras <u>Video Microscopes</u>





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