

PHOTONICS



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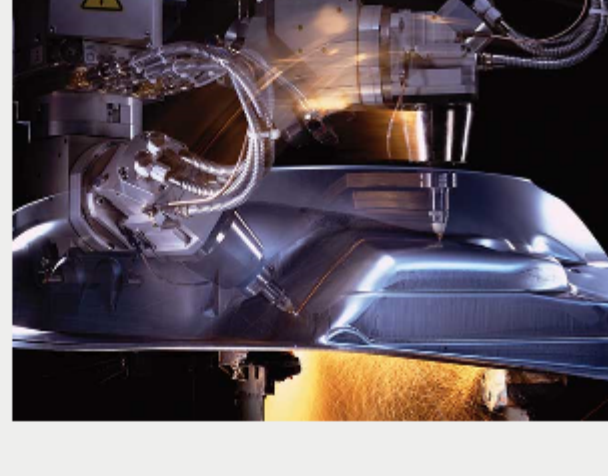
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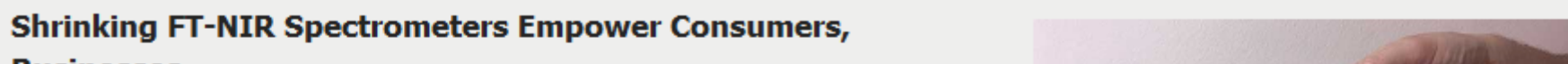
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Peak Power on the Rise

For solid-state lasers, more power, along with increasingly robust systems and a wider variety of wavelengths, mean new applications in cutting, welding, precision manufacturing, marking and elsewhere. Together with falling prices, such advances are putting lasers into new applications. On the horizon are solid-state lasers that enable high-resolution x-ray, neutron and electron imaging for nondestructive testing of turbine blades, engine parts and other components.



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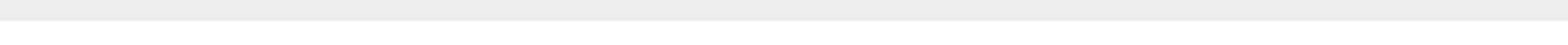


Shrinking FT-NIR Spectrometers Empower Consumers, Businesses

Chip-scale sensor integration has brought us to the edge of new market opportunities that are poised to transform business practices and consumer lifestyles. The ability to incorporate miniaturized sensors into small devices and broad networks means that actionable data can be collected anywhere, anytime. This new capability enables consumers and businesses to monitor goods, conditions and operations in real time and to make changes and adjustments on the fly to optimize safety, health, quality control and production, and even care for the environment.



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Promise of Organic Photonics Looms Large

Champions of organic photonics strive for market acceptance by making the most of the material's thin and flexible nature. Organic materials could supersede their inorganic cousins in many applications thanks to some unique and intriguing properties. From lasers, lighting and Li-Fi (light fidelity) to OLED TVs and solar cells, organic photonics offers a thin, flexible and easy-to-manufacture substance that is carving out new niches in some highly competitive markets.



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Featured Products



Micro Injection Molding

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Accumold® is a high-tech manufacturer of precision micro, small and lead frame injection molded plastic components. Utilizing processes developed from Accumold's Micro-Mold® technology, the company designs, builds and produces unique molds and parts.

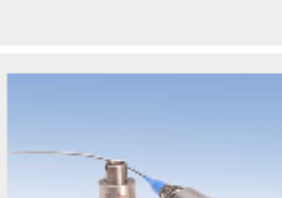
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LensCheck™ Quality Control System

Optikos Corporation
Optikos, the leader in optically-based design, metrology products and IQ Lab™ service, is pleased to offer this compact, efficient, easy-to-use quality control tool. The LensCheck™ instrument is a cost-effective solution to your production and prototype lens qualification needs.

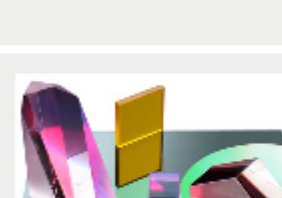
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Mid IR Fiber Collimator

Micro Laser Systems Inc.
The FC5 Mid IR Fiber Collimator operates between 2.5µm and 6µm. Output beam is user adjustable. Fine 80 pitch threads allow you to optimize collimation for your operating wavelength and lock it down. Beam size is approximately 2mm at 1/e² points. These collimators have an FC or FC/APC receptacle.

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Precision Glass & Optics (PG&O)
PG&O's new optical coating capabilities feature an advanced, in-situ optical monitoring and rate control system that produces ultra-precise and accurate single and multi-layered thin films. The newly-installed computer & software system provides calibration of the exact refractive index dispersion for each material and process used.

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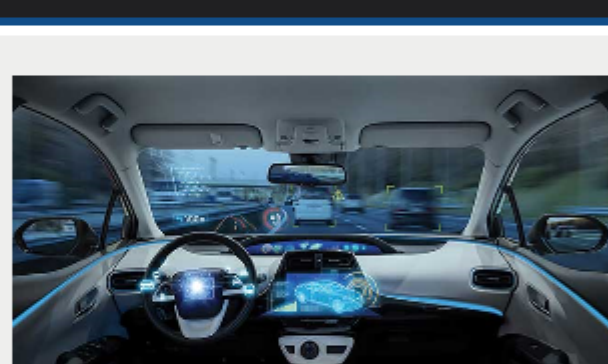
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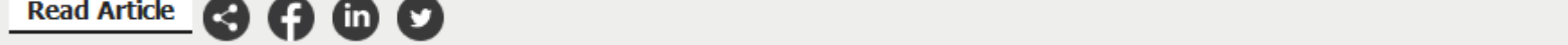
In Case You Missed It

Military-Standard Lidar Driving Advances in Autonomous Vehicles

The integration of lidar into automotive applications is now pushing the boundaries of sensor, emitter and package design to exceed current specifications.



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US Navy Awards RIT Physicist \$550K Quantum Sensing Grant

Through a three-year, \$550,000 grant, Mishkat Bhattacharya, a theoretical physicist at the Rochester Institute of Technology, is investigating new precision quantum sensing solutions for the U.S. Navy's Office of Naval Research.

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Photoswitch Chemistry Creates 3D Shapes From Light

A novel technology uses a special class of photoactivatable molecules and digital light processing to construct light shapes into animated structures that have volume and are viewable from 360 degrees. The technology is not a hologram, and differs from 3D movies or 3D computer design.

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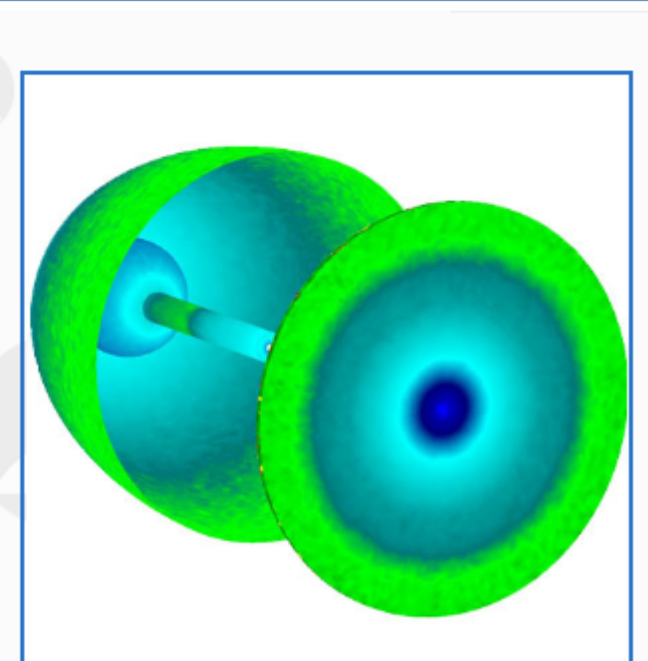
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Webinars

Learn Efficient Luminaire Design Using Virtual Prototyping

Thu, Oct 12, 2017 1:00 PM – 2:00 PM EDT
In this webinar, attendees will learn how to design more efficient luminaires using Lambda Research's TracePro software, a 3D CAD virtual prototyping program with the power and tools to simulate and design luminaires. The webinar will cover how to design luminaires for maximum efficiency and specified angular output, how to use photorealistic rendering to make sure a luminaire works as designed, when to use diffusers to improve design output, how to create reports and check luminaire output for design regulations, and Tips and Tricks for creating better luminaires in less time.

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Features
Silicon Optics; Near-IR Spectroscopy; Wearables; Terahertz Imaging; Light Sources

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Imaging Directory: Enhanced Advertiser Listing; Market Report; Supplier New Product Report

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