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LIGHT EXCHANGE



Highlights from the July 2013 issue of Photonics Spectra



Lasers Help Shrink and Sharpen Medical Devices

Advances such as shorter pulse widths and the ability to select pulse shape are enabling the fabrication of smaller, more precise lifesaving devices. In medical devices, smaller is often better - after all, implantable electronics, stents and other pieces of equipment can go into more places within the body if they are less intrusive. Other important device attributes are capability, cost and reliability. The last characteristic is vital because of how medical devices are used.

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InfraTec

High-end

Thermography

with up to



PHOTONICS buyers' guide

Fiber Optics Growing Strong for Biomedicine

Several company representatives weigh in on new trends in medical device manufacturing. Fiber optics allow medical devices to direct light to hard-to-reach areas for diagnostics and treatment - that's hardly news. The first glass rod device for use as a surgical lamp was patented in 1898. But that doesn't mean that the field isn't growing: As new imaging and therapeutic methods are born, and as "smaller, cheaper, less invasive" remains the mantra of the biomedical industry, fiber continues to expand in the market.

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Early Compliance Saves Money

Medical devices must pass strict regulations before they are released for clinical use, and policies vary depending upon where in the world the device is to be marketed. In some countries, navigating the system is so tricky that some companies are beginning to fight back. But wherever you are, the advice is always the same: Start thinking about compliance early.

Characterizing the effects of polishing optical surfaces beyond a surface roughness parameter may enable

such as deterministic figuring using MRF (magnetorheological finishing), ion beam figuring and computer-

superior finishes. A wide variety of techniques can be used to manufacture high-quality optical surfaces. These range from surface generation, grinding, lapping and full-aperture pitch polishing to more advanced techniques

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controlled polishing. Specialized processes such as diamond turning and polishing are also used for some

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applications.

Novel Fibers Use Space to Extend Capacity Limits

Scanning White-Light Interferometry Fingerprints the Polishing Process

Multicore, multimode and hollow-core optical fibers are helping engineers devise next-generation systems. The optical network that enables today's smartphones, tablets and computers to stream all that beloved bandwidth is headed for trouble: In a decade or less, most experts say, transmission rates of current fiber networks will face a "capacity crunch" as single-mode fiber approaches its intrinsic capacity limit.

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Products from this Issue



T165 Laser Pulser

Highland Technology, Inc.

The T165 Laser Pulser incorporates an edge triggered pulse generator with 150 picoseconds nominal rise and fall times into a butterfly packaged laser. The 2" by 2" design connects directly to Type 1, 0.1" pin-pitch, butterfly laser packages, making it ideal for OEM use in laser systems.

More info >>



Raman Spectrometer System

tec5USA, Inc.

Tec5USA Inc. has introduced a Raman spectrometer system for process control. Based on the established MultiSpec spectrometer system, the new cassettes contain a laser light source and a high-resolution spectrometer. A fiber optic Raman probe completes the measurement setup.

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SEPTEMBER 17-19, 2013 HYATT AT FISHERMAN'S WHARF, SAN FRANCISCO, CA



Epoxy Gel

Master Bond Inc.

Naster Bond's Super Gel 9, an optically clear, two-component urethane-modified epoxy gel, offers dimensional stability, softness and resilience for applications including the encapsulation of sensitive electronic parts and the sealing of optical components.

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Xenon Source

Ocean Optics, Inc.

The HPX-2000-HP-DUV xenon light source from Ocean Optics is a 75-W short-arc lamp for UV-VIS absorbance spectroscopy and other applications where a high-intensity lamp is required. It provides continuous spectral output from 185 to 2000 nm and offers up to 2000 h of bulb life.

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Topics include: Laser Transmitters for Fiber Optic Communications Techniques in Biophotonic Imaging Enabling Technology for Highly Aspheric Optics Manufacturing Industrial Imaging and Vision

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