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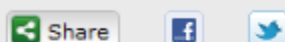
February 2015

Nanoimprint Lithography enables Cost-Effective Photonics Production



The ability to create wafer-scale stitching-error-free patterns of nanostructures on bowed and warped surfaces and even on topography, as well as direct patterning of 3-D structures, makes nanoimprint lithography ideally suited for the needs of a diversified photonics market. Photonics applications are emerging rapidly, thanks to the fabrication infrastructure of the semiconductor industry that enables new functionalities, smaller form factors, improved performance and reduced costs.

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ColorLock Filter Stacks Enable Better Wide-Angle Imaging

New glass filters overcome considerable design challenges to transmit wide-angle incident light without shifting wavelengths, offering an innovative solution for a variety of applications in which the high transmission afforded by dielectric filters is less important than the consistency of the wavelengths of light coming in from wider incident angles.

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Multispectral Imaging Extends Vision Technology Capability



Multispectral imaging takes the detection capability of machine vision beyond just color inspection. With wafer-level coating of multispectral filters, advanced multispectral cameras now can be designed in a compact form factor. The result: many new opportunities in high-speed line-scan imaging.

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LSCM and ReIA for Quantifying Microwear: A Case Study

Laser scanning confocal microscopy (LSCM) and relative area (ReIA) are effective tools for the documentation and discrimination of surface roughness on experimental stone tools made from Mistassini quartzite. Together, their ability to effectively document and discriminate wear on these experimental tools offers archaeologists another method for studying past uses of chipped quartzite artifacts.

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Featured Products



Ultra-Narrowband Filters

Alluxa
Alluxa's ultra-narrowband filters, for applications such as laser cleanup, lidar, telecommunications and instrumentation, offer the narrowest and "squarest" filter profiles in the visible and NIR with very high transmission levels typically greater than 96%.

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IR Filters for Thermal Imaging and Gas Detection

Spectrogon US, Inc.
Spectrogon US manufactures infrared filters and windows with high transmission, high rejection outside the passband, while maintaining excellent coating uniformity for thermal imaging and gas detection applications such as cryogenically cooled IR detectors and for uncooled microbolometers.

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High Brightness Fiber Laser Pump Modules

DILAS Diode Laser, Inc.
DILAS expands the wavelengths range of its tailored bar based, scalable concept with high brightness fiber laser pump modules delivering up to 240W (200µm fiber core, NA 0.22) optical output power at 915nm and up to 270W (200µm fiber core, NA 0.22) optical output power at 976nm with optional VBG for wavelength stabilization.

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ULC Online Marketplace

United Lens Company, Inc.
United Lens Company has changed and grown alongside the optics industry for nearly one hundred years.

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UV Light Distribution Mapping System

FujiFilm Corp.
Visualizes UV light amount distribution by color density.

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New Fujikura Fiber Recoaters

AFL
AFL, an industry-leading manufacturer of fiber optic systems, introduces a new series of Fujikura high precision fiber recoaters—the FSR-05, FSR-06 and FSR-07.

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Got Distortion?

Siskiyou Corporation
Siskiyou continues to advance the state of the art in optomechanical components.

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MicroMate 3:1 Zoom Ration

Navitar, Inc.
The MicroMate was designed specifically to work with today's high resolution 4/3" sensor cameras.

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