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PHOTONICS MEDIA
THE PULSE OF THE INDUSTRY

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EuroPhotonics Digital Edition - Fall 2014

For 17 years *EuroPhotonics* has reported on key enabling photonic technologies coming out of the vibrant European Industry.

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The **Fall 2014 issue** of *EuroPhotonics* includes feature articles about new wavelengths and new applications for diode lasers; challenges with InGaAs sensor technology for SWIR cameras; and lens-free microscopes for biological imaging.

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Diode Lasers Break into New Wavelengths, New Applications

The field of diode lasers is a dynamic, fast-developing area, enabling new applications to emerge continuously. From pumping of solid-state lasers to materials processing and medical applications, the technology is broadening its appeal beyond the niche market to become a commodity product in several mainstream industries.

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SWIR Applications and Challenges: A Primer

Infrared imaging opens endless possibilities for industrial, scientific and security image-processing applications. But short-wave infrared cameras must overcome the limitations of InGaAs sensor technology to provide high-quality images.

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Lens-Free Microscopes Offer Real-Time Bio Imaging

Compared with traditional microscopes, lens-free microscopes are smaller and simpler, yet more powerful.

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Microscopy Enables Detailed Insights into Mitochondria

A new microscopy technique combining confocal and two-photon excitation microscopy with in situ pharmacological and genetic manipulation has given researchers insight into how the nervous system responds to disease and injury at the mitochondrial level.

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Tech Workshop Focuses on PIC Packaging

Packaging for photonic integrated circuits continues to evolve, despite challenges. For silicon photonics, some of the potential solutions include wafer-level methods and 'microbench' technologies for multichip device packaging.

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Featured Products

High Quality Infrared Cameras

Allied Vision

Allied Vision Technologies Goldeye cameras feature InGaAs sensors for short wave infrared sensitivity with 14-bit processing and numerous image correction features.

More info >>

The New Omnicure® AC8 Series

Lumen Dynamics

The NEW OmniCure® AC8 Series of high power, large area UV LED curing systems combine state-of-the-art, custom front-end optics and advanced thermal design.

More info >>

LAOS Sapphire

GT Advanced Technologies

Low-Absorption Optical Sapphire (LAOS) begins with ultrahigh-purity starting material and is grown in a special process in order to reduce optical absorption seen in standard sapphire materials.

More info >>

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Photonics Media

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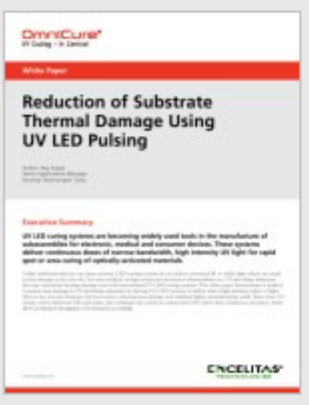
WHITE PAPER



Reduction of Substrate Thermal Damage Using Pulsed UV LED Curing Systems

Lumen Dynamics

UV LED curing systems deliver narrow bandwidth, high intensity UV light for low heat, rapid curing of optically-activated materials. Although LED curing systems do not deliver unwanted IR or visible light, some UV-absorbing substrates may still experience heating damage. This white paper demonstrates a novel method to reduce heat damage in UV-absorbing substrates by driving UV LED systems to deliver short, high-intensity pulses of light, resulting in higher throughput with increased yields.

DOWNLOAD WHITE PAPER >>

Industry Events

Photonex 2014 - October 15-16, 2014 · Ricoh Arena, Coventry, England

The UK's showcase event dedicated to photonics and light technologies now incorporates Vision UK and highlights for 2014 include industrial vision, machine vision, scientific and hyperspectral imaging.

More info >>

CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *Industrial Photonics*, *BioPhotonics* and *EuroPhotonics*). Please submit an informal 100-word abstract to Managing Editor Laura Marshall at **laura.marshall@photonics.com**