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10

BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES

Tuesday, November 25, 2014

Imaging at the Speed of Life

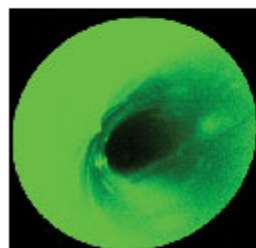


Being able to take a faster snapshot could benefit bio researchers – and the rest of us, too. Faster imaging would allow researchers to capture currently hidden cellular processes, to screen large numbers of cells for relatively rare specimens, and to better reveal how the brain and heart work. The resulting data would be a boost to biology, medicine and related fields.

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Laser Combiner Enables Scanning Fluorescence Endoscopy



A laser-scanning fiber endoscope uses a plug-and-play laser combiner to enable high-contrast images suitable for detecting early-stage precancerous lesions.

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Multispectral Sensor Boosts Molecular Diagnostics

A new low-cost multispectral fluorescence detection sensor helps overcome barriers to using molecular diagnostics in point-of-care testing.

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UV-VIS Spectroscopy in the Clinic – What's Stopping It?



Imaging techniques using UV-VIS spectroscopy hold promise for a range of important clinical applications. But despite years of development leading to robust technologies that have undergone thorough testing, commercialized instruments are having a tough time finding their way into the clinic.

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Biophotonics Products



Custom Objectives

Navitar, Inc.
Special Optics, A Navitar Company, offers custom microscope objective lenses with working distances from 0.3 mm to 30 mm.

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Excitation and Illumination

Laserglow Technologies
Laserglow Technologies provides laser sources from 266-2200 nm.

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Board-Level Cameras

Basler AG
The new Dart board-level cameras by Basler AG deliver 1.2- to 5-megapixel resolution and frame rates of up to 54 fps.

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Benchtop Spectrofluorometer

HORIBA Scientific
With higher sensitivity, the FluoroMax Plus spectrofluorometer from Horiba Scientific enables fast measurement of weak, small samples.

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PHOTONICS MEDIA

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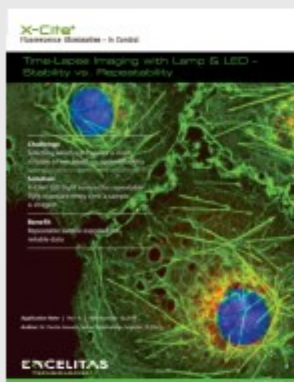
[Cell Assay Imaging Systems](#)
[Fluorescence Spectrophotometers](#)
[Microscope Accessories](#)
[Near Infrared Spectrometers](#)
[Safety Goggles and Glasses](#)
[Video Microscopes](#)

OBlique SINGLE PLANE ILLUMINATION MICROSCOPE (OSPI M)

The oSPIM is two microscopes in one. The lower microscope can be used for conventional fluorescent imaging including WF, confocal and TIRF. The bottom objective is also used for light sheet (SPIM) illumination, with light sheet imaging from the tilted top objective.

www.asiimaging.com

WHITE PAPER



Time-Lapse Imaging with Lamp and LED – Stability vs Repeatability

Excelitas Technologies Corp.

Advancements in LED technology today enable LEDs to provide a compelling alternative to lamps for fluorescence microscopy illumination and have become increasingly popular. This article discusses the differences in stability between Lamps and LEDs, and explains the importance of repeatability versus stability when comparing images taken between time points, whether this is within the same short experiment or a longer time-lapse experiment.

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Industry Events

Quantitative Bioimaging 2015 - Jan. 7 – 9 2015 · Paris, France



Quantitative Bioimaging 2015 (QBI) will be the 3rd international conference in this series with focus on the quantitative analysis of bioimaging data in an interdisciplinary manner. It will bring together researchers from engineering, (bio)physics, biology and chemistry who work on quantitative aspects of microscopy.

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