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# BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES

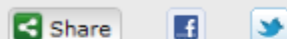
Wednesday, September 24, 2014

## Ultrafast Temporal Shaping Is Coming of Age



Temporal shaping will perform a vital function as femtosecond laser applications take root in the field of biomedicine. Thanks to advances in ultrafast laser design, ultrafast laser sources have emerged from the laboratory and are now used for ophthalmic surgical procedures such as lasik to cutting sapphire wafers.

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## Ultrashort-Pulse Laser Micromachining Advances Implantable Medical Devices

Femtosecond lasers are crafting stents, intraocular lenses, prosthetics and catheters that are smaller and more complex than ever. The feature sizes of these devices are shrinking both to address new usages and to improve patient outcomes.

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## Mini Camera Modules Pave Way for Less-Invasive Visualization



A digital camera smaller than 1 mm is on its way to making endoscopy procedures easier and more versatile.

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## Positioning Equipment: Enabling Technology for Life Sciences



Positioning systems and equipment are sometimes the unsung heroes of microscopy: Users often focus more on the optics and the light sources than on the devices that keep the rest of the system stable enough for death-defying feats of resolution and imaging depth. But that stability is vital – without it, further advances in biological research might not be possible.

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## Biophotonics Products



### Fluorescence Cameras

Framos GmbH  
Now at Framos GmbH, the Infinity3 camera series from Lumenera Corp. is intended for fluorescence microscopy applications.

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### Video Measuring Microscope

Mahr Federal Inc.  
The MarVision MM 320 video measuring microscope from Mahr Federal Inc. is designed for the measurement and dimensioning of geometric elements.

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### USB 3.0 sCMOS Camera

Andor Technology plc,  
Corporate Headquarters  
The Zyla sCMOS USB 3.0 camera platform by Andor Technology Ltd. offers performance of up to 53 fps from a 4.2-megapixel array, as well as low read noise and a wide dynamic range.

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### Laser Series

Cobolt AB  
With a standardized compact form factor and wide wavelength range, the MLD 06-01 compact diode laser series from Cobolt exhibits higher power than its predecessors.

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## WHITE PAPER



### Use of White Light Fluorescence LED in long-term Live Cell Imaging Applications

Lumen Dynamics

Lamps have long been used in microscopy facilities to conduct time-lapse imaging experiments. Light uniformity, stability and sample exposure are key in generating reliable data. In this study, we evaluate an LED system (X-Cite® 120LED) for our high-content time-lapse experiments and show that LEDs provide a better solution for imaging live cells when compared with traditional lamps. The results illustrate that LEDs provide higher stability and better uniformity for imaging. In addition, LEDs allow for higher cell proliferation when compared with a traditional HBO lamp.

[DOWNLOAD WHITE PAPER >>](#)

## Industry Events

### Neuroscience 2014 - Nov. 15 – 19, 2014 · Washington, DC



Neuroscience 2014 is the venue for neuroscientists to present emerging science, learn from experts, forge collaboration with peers, explore new tools and technologies, and advance careers. Join more than 30,000 colleagues from more than 80 countries at the marketplace of ideas and tools for global neuroscience.

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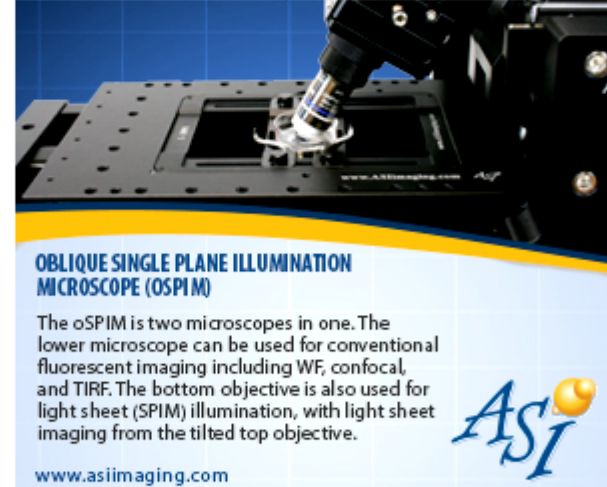


## PHOTONICS buyers' guide

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