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# PHOTONICS

## spectra

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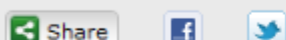
March 2015

### Lasers and Machine Vision Improve Pharma Manufacturing



Through pill marking, quality assurance and more, laser-based manufacturing processes and machine vision make medications safer for consumers and more profitable for pharmaceutical companies. In the multidisciplinary pharmaceutical industry, photonics plays an increasingly crucial role in the manufacturing process.

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### Spectroscopy: Going Small to Get the Whole Picture

Advances based on mobile technology are poised to revolutionize spectrometers. As spectrometers shrink in cost, size and power consumption, their applications grow. Proof can be found in agriculture, medicine and the arts, to name just three different and distinct areas.

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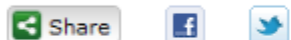


### Electro-Optical Modulators Empower Lasers for Science Applications



Scientific fields such as atomic physics, chemistry, biology and even astronomy are inspired by the use of lasers and ultimately will benefit from the addition of electro-optical modulators.

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### Lasers Go to the Movies

Laser technology is poised to bring back the magic of 3-D cinema – and bring audiences back to theatres in droves.

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### Featured Products



#### Simplified Laser Integration

**Siskiyou Corporation**  
 The IS-OGP is a simple, turnkey solution integrating an external laser beam into an existing microscope in optogenetics experiments to stimulate target neurons.

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#### Jewel DPSS Lasers

**Quantum Composers, Inc.**  
 The Jewel Laser is a rugged, Q-switch, Nd: YAG, DPSS laser with a compact, monolithic design.

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#### Ultra-Narrowband Filters

**Alluxa**  
 Alluxa's ultra-narrowband filters, for applications such as laser cleanup, lidar, telecommunications, and instrumentation, offer the narrowest and most square filter profiles in the visible and NIR.

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#### Pulse-on-Demand Fiber Lasers

**Spectra-Physics**  
 VGEN-ISP-POD is an IR short pulse MOPA (master oscillator power amplifier) fiber laser with pulse-on-demand (POD) capabilities for precision micromachining and marking applications.

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#### UV Light Distribution Mapping System

**FujiFilm Corp.**  
 Visualizes UV light amount distribution by color intensity.

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#### Forestry Vision System

**FRAMOS GmbH**  
 The Polterluchs camera system from Visiosens enables digital collection of data on timber stacks.

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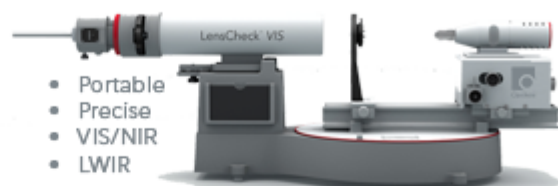
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