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# Spectroscopy

## Tech Pulse

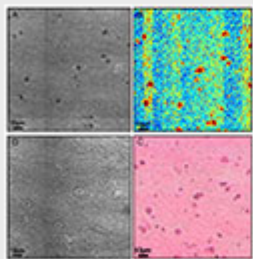


THE PULSE OF THE INDUSTRY



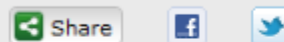
**Wednesday, August 6, 2014**

### Moving Raman Spectroscopy into the Clinic



Raman spectroscopy has the potential to significantly accelerate or even replace laboratory analysis and enable near-patient diagnosis, as it is relatively fast and also very precise.

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### Sensor Amplifies Molecule Signatures

A new spectroscopy technique has the ability to amplify single molecules' optical signatures by about 100 billion times.

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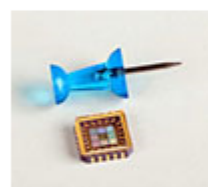
### Spectroscopy Combo Ups Diagnostic Accuracy

Combining light-induced autofluorescence spectroscopy (LIAFS) with diffuse reflectance spectroscopy (DRS) increases diagnostic accuracy in melanoma screenings as compared to using each technique separately.

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#### Multispectral Sensors/ 8-band Spectroscopy

**PIXELTEQ**

PixelSensors use exclusive on-chip filtering to measure up to eight VIS and NIR wavelengths – delivering 8-band spectroscopy in < 1 square centimeter. One PixelSensor typically replaces several optical components.

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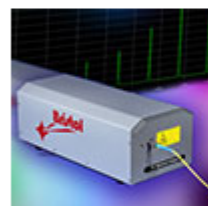


#### Miniature Pulsed Laser Diode Driver

**IXYS Colorado**

Simplify your laser system development with the new PIM-Mini pulsed laser diode driver. Offered in five air-cooled models to drive laser diodes from 5A to 200A peak current at up to 48V.

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#### Laser Spectrum Analyzer

**Bristol Instruments**

The 721 Laser Spectrum Analyzer operates as a high-accuracy wavelength meter and a high-resolution spectrum analyzer resulting in the most complete spectral characterization of CW and high-repetition rate pulsed lasers.

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#### Transform the Way You Read

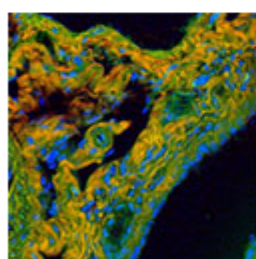
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An enhanced spectroscopy technique for analyzing biological cells and tissues delivers stronger signals than those attained through conventional practices.

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#### Charge Transfer Captured Inside Solar Cells

Ultrafast spectroscopy has allowed physicists, for the first time, to observe and capture the light-to-current conversion process in an organic solar cell as it happens.

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#### Raman Airport Scanner Wins MacRobert Award

Cobalt Light Systems has been recognized with the Royal Academy of Engineering's MacRobert Award for its Insight100 airport scanner, which uses a variant of Raman spectroscopy and advanced algorithms to distinguish between containers and the substances inside them to detect potential explosives.

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