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# Spectroscopy

## Tech Pulse

PHOTONICS MEDIA

THE PULSE OF THE INDUSTRY




Wednesday, May 6, 2015


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



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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**PHOTONICS** buyers' guide

Looking for **Spectroscopy** products? [Search](#) the Photonics Buyers' Guide or Browse these product categories:

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- [Infrared Spectrometers](#)
- [Multichannel Spectroscopy Detectors](#)
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### Raman Imager Speeds Cancer Detection

A vibrational spectroscopic imaging technology that captures images of living cells could become an advanced medical diagnostic tool for the early detection of cancer and other diseases.

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### Featured Products



**Spectrometer and Colorimeter in One**

Admesy BV

The Cronus is world's first spectroradiometer combining a VIS spectrometer with a MSE/Brontes like colorimeter.

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**Deep-Cooled Synapse EMCCD Camera**

HORIBA Scientific

HORIBA Scientific introduces the Synapse EM, a deep cooled EMCCD Scientific camera for low light and ultra-fast spectroscopy experiments.

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**Laser Wavelength Meter**

Bristol Instruments

The best way to determine the absolute wavelength of CW lasers is with the 621 Series Laser Wavelength Meter from Bristol Instruments.

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#### Low-Energy Lasers Produce Microplasmas for Spectroscopy



Terahertz imaging needs only a narrow range of terahertz frequency to, for example, nondestructively look through layers of paint. But broader frequency range is necessary to differentiate the spectral "fingerprints" of various chemicals and identify threats like poisons in food or contraband and explosives in baggage.

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#### Frequency Comb Has the 'Teeth' to Measure Terahertz Waves

A frequency comb that generates and detects terahertz waves throughout a wide spectral range could allow precise measurement of molecules in deep space.

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#### NIR Hyperspectral Imaging Roots out Peanut Contamination

Near-infrared hyperspectral imaging could eliminate uncertainty for food producers required to include the warning "May contain peanuts" on their packaging.

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