



sponsor

**Disruptive He-Cd replacement technology from KLA TECH**







THE PULSE OF THE INDUSTRY

photonics.com

**IMAGING & SENSING**

..... **LIGHT EXCHANGE**

Follow Photonics Media on Facebook and Twitter

sponsored content



**Power Technology's iMAT® Platform Ideal for Raman Spectroscopy**

Power Technology's KLA TECH series of lasers are inherently beneficial to the Raman Spectroscopy industry because of it's patented iMAT® technology which produces single frequency wavelengths at 532 nm and 1064 nm. This technology earned the Frost & Sullivan European Diode-Pumped Solid State Laser Technology Innovation of the Year award in 2009.

[Download White Paper >>](#)

sponsor

**A Revolutionary Advancement in Laser Design Leading to New Possibilities in the Field of Spectroscopy.**



Designed to deliver wavelengths in 1064 & 532nm  
Single frequency performance (<1MHz line width)

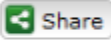





+49 231 999 505 50  
www.klastech.com  
info@klastech.com

**CARS Is Finding Its Niche: Overcoming challenges on the path to commercialization**

No matter how useful a technology might prove in the research lab, its developers sometimes still have trouble finding a commercial place for it. The technology might be too expensive or too complicated for end users, or the list of applications it serves might simply be too short. So, on the path to commercialization, developers must address a range of issues beyond the question, "Does the technology work?" And, every so often, they must face the possibility that they have gone as far as they can with it. Coherent anti-Stokes Raman spectroscopy has found itself at just such a crossroads.

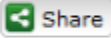



[Read Article >>](#)

**Breast Cancer Laser Technique Faces First Human Trials**

A laser diagnostic test, which ultimately could lead to an instant diagnosis of breast cancer at the time of a mammogram, will for the first time be evaluated using excised human breast tissue and lymph nodes. The method, known as spatially offset Raman spectroscopy (SORS), uses a laser to pinpoint objects deep beneath the skin, without an incision.

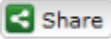



[Read Article >>](#)

**Pharmacy Regulations Stalling Uptake of Optical Spectroscopy**

Can the latest developments in optical spectroscopy overcome the mounting regulatory hurdles afflicting the pharmaceutical business?

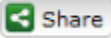



[Read Article >>](#)

**Tiny Probes Dramatically Boost Raman Signals**

Novel gold nanoparticles can goose the signal from Raman reporters, or molecules whose jiggling atoms respond to a probe laser by scattering light at characteristic wavelengths. The discovery could lead to better-targeted drug delivery and deeper bioimaging within tissue.

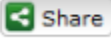



[Read Article >>](#)

**Raman Researchers Set a Trap to Cool Ions**

Captured ions can be cooled, rather than heated, through contact with cold atoms, and these ion traps can store them in a stable condition for longer periods than previously demonstrated. The results could pave the way to experiments that generate molecular ions at interstellar space temperatures.

[Read Article >>](#)

Unsubscribe: <http://www.photonics.com/Newsletter/EmailUnsubscribe.aspx>  
 Questions: [pr@photonics.com](mailto:pr@photonics.com)

[Subscribe](#) | 
 [Manage Subscriptions](#) | 
 [Privacy Policy](#) | 
 [Terms and Conditions of Use](#)

..... **LIGHT EXCHANGE**

Follow Photonics Media on Facebook and Twitter