

ExamineR™ High Performance Raman Microscope

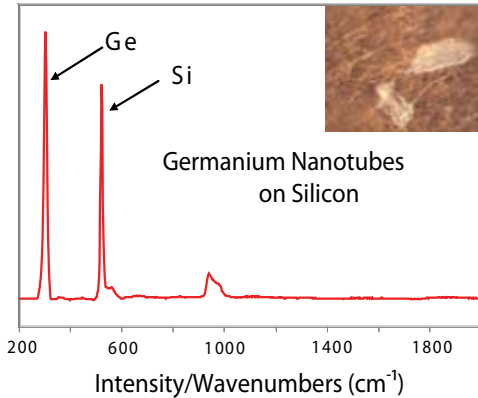


Raman microscopy is an information rich way to characterize samples in life sciences, geology, nanotechnology, semiconductor, forensic science, and many more important applications.

DeltaNu offers a high performance Raman microscope at an affordable price. The ExamineR combines the quality of Olympus microscopy with the performance of DeltaNu's Raman spectroscopy. This combination provides a Raman microscope with outstanding imaging and spectral characteristics.

Our patented free-space design creates a unique modular system that adapts to virtually any microscope eliminating tedious laser, filter, and grating swapping found in other Raman microscopes. Our top mounted module saves space in the lab and comes with your choice of wavelength modules: 532, 785, or 1064 nm.

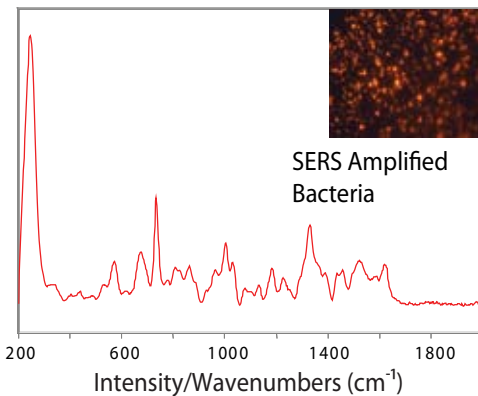
Semiconductors - Silicon on the ExamineR



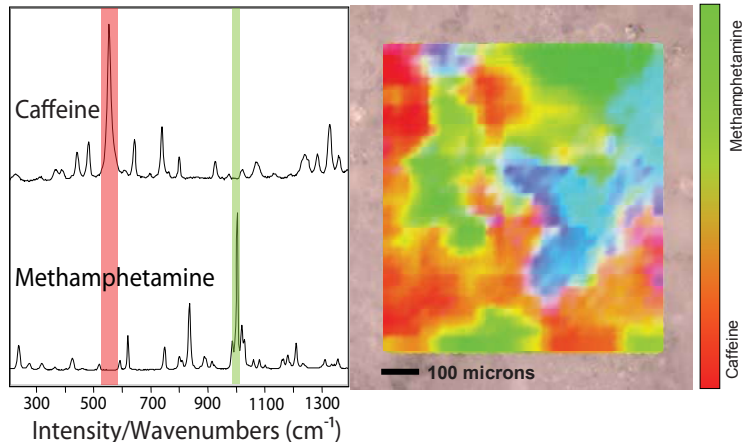
APPLICATIONS

- Life Sciences
- Geology
- Forensics
- Semiconductors
- Solar Cells
- Carbon Nanotubes
- Surface Enhanced Raman Spectroscopy

Microbiology - Bacteria on the ExamineR



Chemical Mapping of Controlled Substances



ExamineR

MODULE SPECIFICATIONS

532 Range	200 - 3400 cm^{-1}
532 Laser	100 mW, 532 nm frequency doubled Nd:YAG, power adjustable
532 Resolution	10 cm^{-1}
785 Range	100 - 2000 cm^{-1}
785 Laser	120 mW, 785 nm diode laser, power adjustable
785 Resolution	5 cm^{-1}
1064 Range	200 - 2200 cm^{-1}
1064 Laser	100 mW Nd:YAG laser, power adjustable
1064 Resolution	15 cm^{-1}
1064 Detector	-50° C

MICROSCOPE SPECIFICATIONS

Upright Microscope - BX51 Olympus (Nikon® and Zeiss options available)
Inverted Microscope - IX71 Olympus (Nikon® and Zeiss options available)
Manual or automated stage
Objectives: standard 5, 10, 20, and 50x (other objectives available upon request)
5 Megapixel camera
Standard brightfield imaging (options available for darkfield, phase contrast, and Nomarski DIC)
Workstation: Desktop PC with two 20" monitors

SOFTWARE SPECIFICATIONS

NuSpec™ instrument control software for data acquisition
GRAMS AI™ for spectral viewing and interpretation
Nulmage mapping software for hyperspectral imaging analysis (available with automated stage only)

APPLICATION NOTES

Analysis of Contaminates on Semiconductor Devices
Monitoring HF/HNO ₃ Etch Solutions with the ExamineR 785
Analysis of Amorphous Silicon with the ExamineR 532
Characterization of Carbon Nanotubes with Raman Spectroscopy
Raman Mapping of Sapphire Inclusions with the ExamineR
Raman Analysis of Disulfide Proteins

Application notes available online

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The information and specifications included in this datasheet are preliminary and subject to change.