

Advantage 1064™ Fluorescence-Free Raman Spectrometer

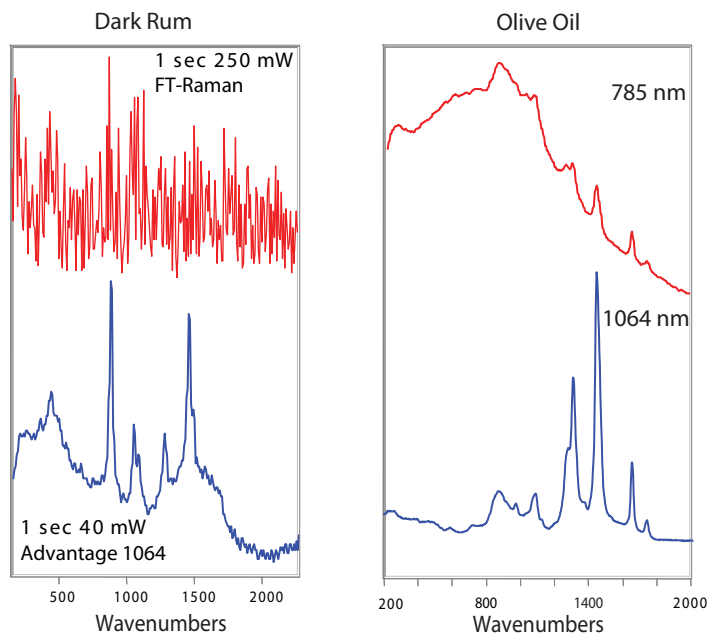


The Advantage 1064 is a high performance Raman spectrometer with the ultimate fluorescence reduction advantage. It has the longest wavelength excitation available in a dispersive Raman spectrometer, yet it maintains the highest sensitivity available with its Electron Bombardment-CCD (EB-CCD) technology. Analyses that required hours with FT-Raman instruments are performed in seconds with the Advantage 1064. The Advantage 1064 Raman spectrometer is easy to use with solutions, gels, powders, and coatings.

APPLICATIONS

- Natural Products Analysis
- Reaction Monitoring
- University Labs
 - Instrumental/Quantitative Analysis
 - Physical Chemistry
 - Organic Chemistry
- Semiconductor Analysis
- Surface Science/Monolayer Analysis
- Polymer Composition and Structure
- Cell and Tissue Research

Natural Products



Advantage 1064

SPECIFICATIONS

Liquid Sampling	Sample cell attachment for 8mm vials, NMR tubes, or MP tubes
Solid Sampling	Optional accessories: XYZ Stage and Right Angle Output Optics
Laser	100 mW Nd: YAG laser, power adjustable
Resolution	10 cm ⁻¹
Spectral Range	200 - 2200 cm ⁻¹
Computer	Laptop PC
Software	NuSpec software and library development software
Warranty	One year parts and labor

TEACHING LABS

Observe Periodic Trends Using Raman Spectroscopy
Organic Functional Groups
Determination of a Langmuir Isotherm Using SERS
Introduction to Raman Spectroscopy
Percent Ethanol in Water Determination Using Raman Spectroscopy
Determination of "Octane" in Gasoline Using Raman Spectroscopy
Vibrational Spectrum of CCl ₄

Teaching labs available online

APPLICATION NOTES

FT vs. Dispersive Application Note

Application notes available online

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