

Raman Microspectroscopy for Your Microscope™

The **APOLLO M™** is a modular system that adds Raman spectroscopy to an optical microscope. Integrated as a single module, the Apollo M™ features a Raman grade, solid state laser, rugged optics designed for microscopy, and a Lightblades™ spectrometer optimized for Raman spectroscopy and tuned to the laser wavelength. Featuring high resolution color imaging, the laser spot is simply focused on the sample volume and the spectra is acquired. This rugged and reliable unit is ready to use and as such is perfect for daily research and analysis.

Designed to be used as either standalone units or added onto a CRAIC microspectrometer, the Apollo M™ adds Raman microspectroscopy to your arsenal of research techniques. Featuring confocal Raman microspectroscopy of micron-scale samples, the Apollo M™ is a reliable instrument that allows you to build a system that best meets your experimental requirements.

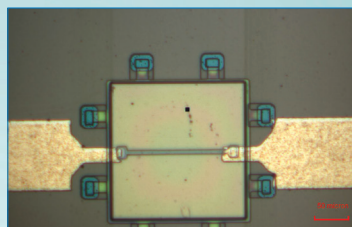


APOLLO M™ Key Features:

- Easy to use confocal Raman Microspectroscopy
- Lightblades-R™ spectrometer designed for Raman microscopy.
- Fast and powerful
- Designed for routine research & ease-of-use.

Typical Performance Specifications

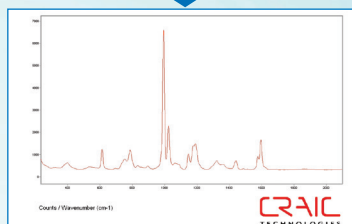
Types of Microspectroscopy	Raman				
Excitation Sources					
Excitation Wavelengths (nm)	405	532	632.8	785	830
Maximum Output Power (mW)	30	50	30	80	100
Bandwidth (nm)	<0.04 nm				
Laser Power Control	Neutral Density Filters				
Detection Specifications					
Detector	Back thinned, cooled CCD				
Grating (lines/mm)	1800	1800	1800	1200	1200
Detection Range Start (cm ⁻¹)	300	120	100	100	100
Detection Range End (cm ⁻¹)	5,360	2,800	1,960	2,030	1,800
Spectral Resolution (cm ⁻¹) @ (1086 cm ⁻¹ calcite)	20	12	6.8	7	6.5
Peak Position Accuracy	<1 cm ⁻¹				
Peak Position Reproducibility	<0.2 cm ⁻¹				
Confocal	Yes				
Sampling Area (50x objective)	5 microns				
Full Automation	Available				
5D Spectral Mapping	Available				
Operating System	Windows				



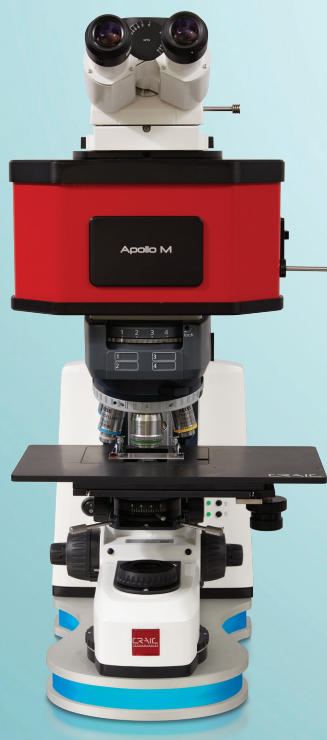
Vibrational spectroscopy of microscopic samples.



Designed for daily use so easy to use and rugged.



Fast and reliable Raman spectroscopy.



Calibration Standards

- ☐ NIST Raman Standards

System Software

- ☐ 5D Spectral Mapping
- ☐ TimePro Kinetics™
- ☐ Raman spectral database
- ☐ Statistical Analysis

Accessories

- ☐ Quartz Slides and Coverslips
- ☐ CRAIC Certified Lamps
- ☐ Quartz Wellplates

Lasers

- ☐ 405 nm
- ☐ 532 nm
- ☐ 632.8 nm
- ☐ 785 nm
- ☐ 830 nm



Microspectroscopy Stages

- ☐ Manual XY
- ☐ Rotating & XY, 360deg/30mm x 40mm
- ☐ Semi-Rotating stage, up to 240deg
- ☐ Programmable XY Stage

