

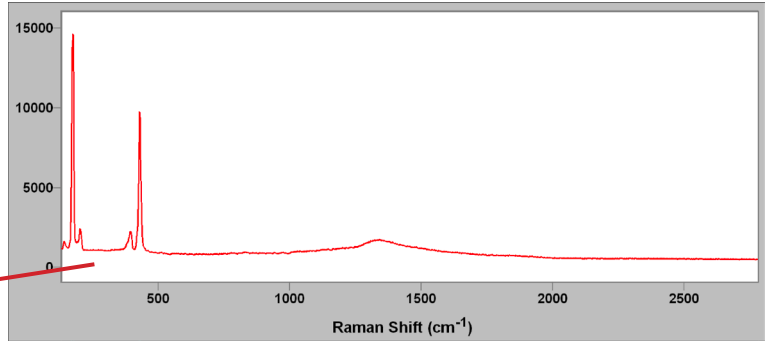
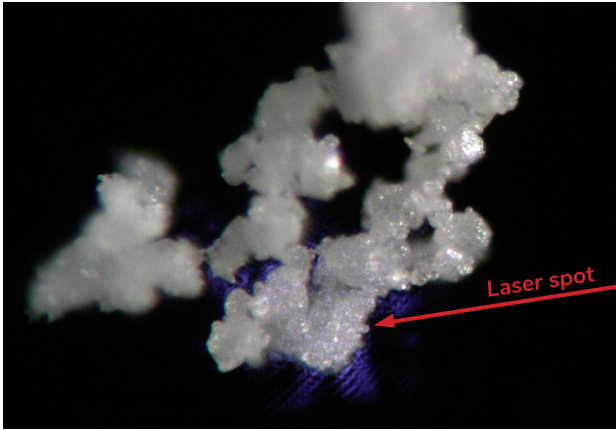
Raman Microscopes



- **Fiber optic Raman probe coupled microscope**
- **CMOS digital video camera**
- **Achromat, infinity corrected DIN objective lens**
- **3D 2-layer mechanical stage with coaxial course and fine focusing**
- **Sturdy all-metal frame construction**
- **Available with single or dual wavelength excitation**
- **Dual wavelength microscope allows simultaneous measurement at 2 laser wavelengths**

The Raman microscope can be coupled to any of our Raman instruments as well as other vendor Raman instruments which accept optical fiber coupling.

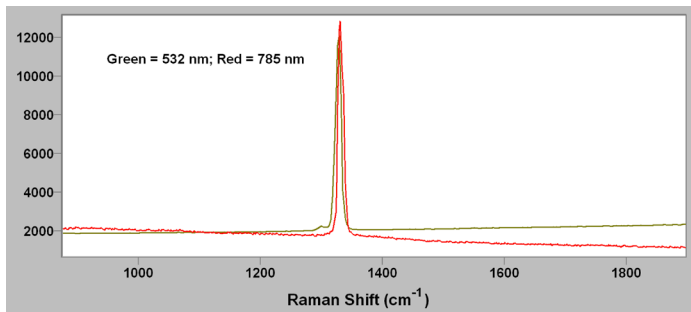
- **The Raman fiber optic probe is integrated into the optical train of the microscope** along with a high-resolution video camera.
- **A flip dichroic mirror** allows the user to toggle between the video image and Raman measurement.
- **The dichroic mirror partially transmits the laser beam** into the objective lens for laser beam visualization in the image mode.
- **The integrated video camera** allows the user to position the focused laser beam to a precise sample spot.
- This microscope when integrated with our portable Raman instrument comes **at a fraction of the cost of most research grade Raman microscope systems.**



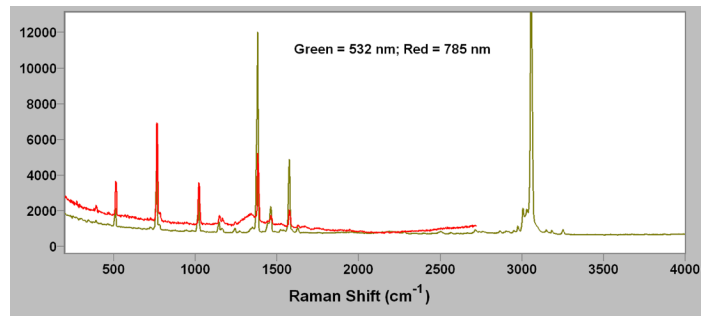
Sulfur crystal image and Raman spectrum, 20X objective



USAF 1951 Chart (Group 5, Element 6 - 8.77 microns line spacing), 20X objective



Simultaneous Raman measurement of diamond at 532 nm and 785 nm obtained with the dual wavelength Raman Microscope



Simultaneous Raman measurement of naphthalene at 532 nm and 785 nm obtained with the dual wavelength Raman Microscope

Specifications	
Excitation Wavelength	405, 514, 532, 633, 670, 671, 785, 808 nm. Other wavelengths available 532/785 nm or 405/785 nm for dual wavelength
Raman Probe Cable	3 meter reinforced SS armor cable with FC connectors (SMA available), 50 µm core for excitation and 100 µm core for collection
Nosepiece and Turret	Quadruple
Objective Lens	Achromatic, infinity-corrected DIN-standard lens. 4X, 10X and 20X standard
Focusing Range	30 mm
Division of Fine Focusing	0.002 mm
Focusing	Coaxial Coarse and Fine Focusing with CA Knob Tension Control
Illumination	Epi-illumination, variable 3W LED
XY Stage Size	140 mm x 140 mm
XY Stage	3-D Double Layer Mechanical Stage
Stage Travel Range	75 mm (X), 45 mm (Y)
X/Y Adjustment	Course and fine
Camera Sensor	CMOS, 1280x800 pixels
Image Capture Resolution	5.0 MP
Video Capture Resolution	720 P
Video Display	10.1" LCD Tablet with capacitive touch screen. Android operating system
Storage	1 GB internal storage, MicroSD
Connections	Bluetooth, mini HDMI, Wi-Fi
Size	16" x 22" x 8"
Weight	22 lbs
Part Number	PMR-785-5MPXL, PMR-532-5MPXL, 2 megapixel camera option available