

Compact Imaging Spectrograph (V780, D780, P780)

Quantum Design now adds in-situ structural and chemical spectra analysis to PPMS® materials characterization measurements at low temperature and high magnetic fields. This ability answers a growing demand in the research community. Offering a wide range of modular interfaces that feature cage system couplers, Quantum Design offers endlessly configurable connections between the Compact Imaging Spectrograph and the PPMS Optical Multi-Function Probe (OMFP). The spectrograph's "wide aperture" slit opens the door to a single set up with the OMFP to image the sample, while also allowing spectral information collection through the same optical path from the microscope.

Features

- Integrated control and data acquisition through PPMS MultiVu software
- Dual grating turret with RFID
- Dual Detector Output
- Adaptive Focus
- Pre-aligned and calibrated
- Compact and rugged design

Applications

- Absorption, Transmission, and Reflection
- Raman (532, 785, and 850 nm)
- Fluorescence and Luminescence



Figure 1: Andor Shamrock 193i Spectrograph with iVac 316 CCD

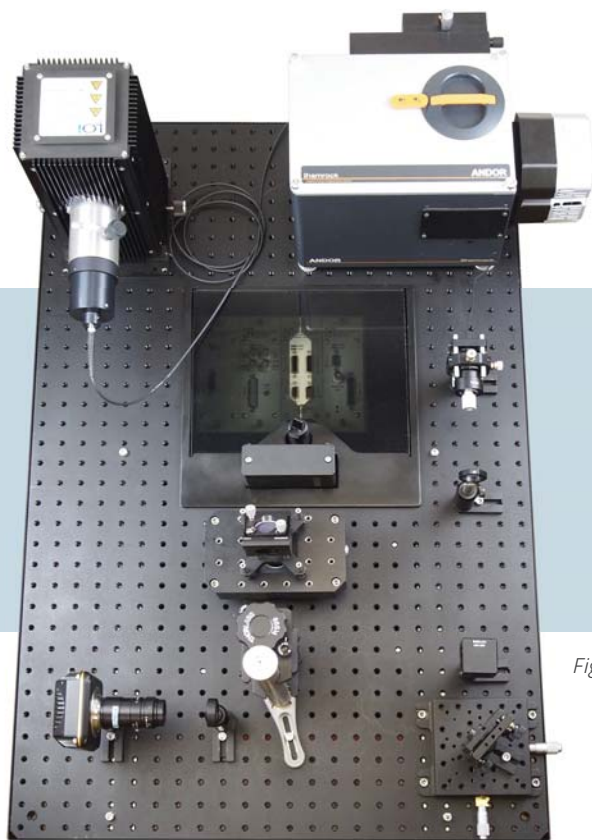


Figure 2: Imaging spectrograph integrated onto VersaLab Optix breadboard

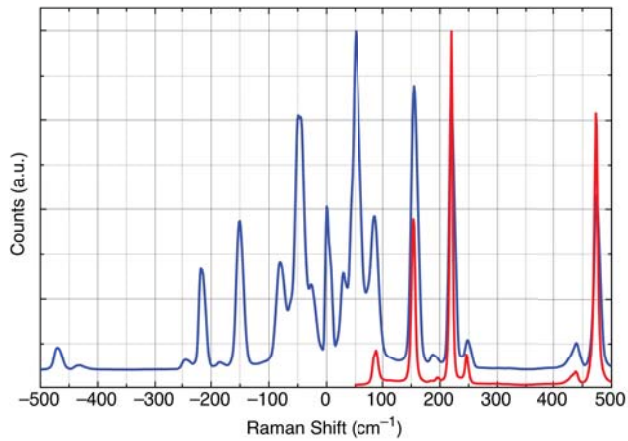
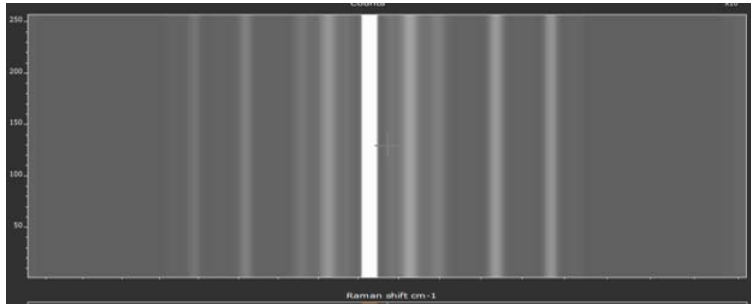


Figure 3: (TOP) Image of Raman Spectra of Sulfur on CCD; (BOTTOM) Resulting Sulfur Spectra



Figure 4: Dual Grating Turret with RIFD



Figure 5: Optional Xenon Light Source

☑PPMS ☑EverCool ☑DynaCool ☑VersaLab

Specifications

- Focal Length: 193 nm
- Aperture: F/3.6
- Wavelength resolution: 0.21 nm
- Wavelength Accuracy Center: 0.15 nm
- Gratings: Interchangeable dual on-axis RFI tagged turret for easy swapping



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Specifications subject to change without notice
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