

Meet Characterization.nano's Raman Systems

	Renishaw inVia Reflex	WiTec alpha 300	Leica Stellaris CRS
Raman-Based Measurement Modalities	Raman Spectroscopy/Imaging Low Wavenumber Raman Spectroscopy Polarization-Sensitive Raman Spectroscopy/Imaging External Temperature Control Stage	Raman Spectroscopy/Imaging	Stimulated Raman Scattering (SRS) Imaging/Spectroscopy Coherent Anti-Stokes Raman Scattering (CARS) Imaging/Spectroscopy
Laser Excitation	Diode Laser: 473 nm Diode Laser: 532 nm Diode Laser: 785 nm (Line Focus)	Diode Laser: 532 nm Diode Laser: 785 nm	CRS Pump: 720 -980 nm (Tunable) CRS Stokes: 1032 nm (Fixed)
Spectral Range	100 – 4000 cm^{-1} (~15 cm^{-1} with low wavenumber filter)	100 – 4000 cm^{-1}	SRS: 507 – 3500 cm^{-1} CARS: 1200 – 3500 cm^{-1}
Spectral Resolution	0.3 cm^{-1} (Laser and Grating Dependent)	0.1 cm^{-1} (Laser and Grating Dependent)	1 cm^{-1} (Wavelength Dependent)
Spatial Resolution (lateral)	< 300 nm (Diffraction limited) (Laser and Objective Dependent)	< 300 nm (Laser and Objective Dependent)	< 500 nm (Wavelength and Objective Dependent)
Spatial Resolution (axial)	< 1 μm (Laser and Objective Dependent)	< 1 μm (Laser and Objective Dependent)	< 2 μm (Wavelength and Objective Dependent)