Tool name: Raman spectrometer, Horiba LabRaman Evolution

Purpose: Raman scattering and photoluminescence measurements for characterization of materials.

Description:

- Available wavelength: 457.9 nm, 488 nm, 514.5 nm (Ar-Kr laser)

  532 nm (DPSS laser)

  632.8 nm (He-Ne laser)

  785 nm (Diode laser)

- Ultra-low frequency Raman measurement (>5 cm^{-1})

- Grating: 150, 300, 600, 1200, 1800, 2400 grooves/mm

- Motorized translation sample stage for Raman mapping (point-by-point mapping)

- High spectral resolution, ~0.25 cm^{-1}.

- Micro reflectance and transmittance measurements

- In-situ Raman and photoluminescence measurements with electrical probes

- Motorized polarization optics (λ/2, λ/4 wave plates and polarizer)

Photo: