

RAMAN SPECTROSCOPY

MANUFACTURER : Horiba Jobin Yvon

MODEL : LabRAM 800

Analysis

- Analysis of the molecular structure of organic and inorganic elements
- Qualitative, semi-quantitative and quantitative analysis
- Wavelengths:
 - o 514.5 nm, 488 nm (Argon Ion Laser, 300 W)
 - o 632.8 nm (He-Ne laser, 25 W)

Characteristics

- Coupled to a fixed stage Olympus microscope
- Detector: Multidimensional CCD (Andor Technologies, 1024 x 256 pixels) cooled to -75 °C
- Mapping available
- Depth profiling
- Confocal mode
- Polarized mode measurements
- Resolution : 2 to 5 cm^{-1}
- Sensitivity : 1% mass
- Depth resolution : 2 μm
- Lateral resolution : 1 μm