

METROLOGY

Confocal Raman Microscope (combined Raman microscope & spectrometer)

Manufacturer: Renishaw

Model: inVia Qontor



General Description:

The Raman microscope facilitates the Raman spectroscopic investigations of both macroscopic and microscopic samples, down to sub- μm resolutions. Applications range from the investigation of the molecular composition of samples to e.g. contact-free direct optical measurement of stress and strain in semiconductor materials. The instrument enables 2D and 3D maps as well as bulk analysis, and – using an external arm or fibre optics, even of samples too large to fit into the sample compartment.

Key Specifications:

- Spectral range: $< 100 - 4000 \text{ cm}^{-1}$ @ spectral resolution $< 1 \text{ cm}^{-1}$
- 3 excitation lasers: 532 nm | 633 nm | 785 nm
- 3 gratings: 1200 | 1800 | 2400 l/mm for wide spectral coverage or high resolution
- front lens: 5 | 10 | 20 | 50 | 100 fold
- motorised high-precision 3D table with sub-micron resolution
- autofocus
- automatic 2D / 3D image acquisition
- accessories for bulk analysis of solid or liquid samples;
- accessories for measuring large samples outside the sample compartment
- high-end spectral data evaluation using latest WiRe® software

Availability	For use by qualified personnel only; the instrument is available on request for measuring external samples
Location	Metrology Lab Europastraße 12 9524 Villach
Responsibles / Contact	Dr. Thomas Arnold / Dr. Martin Kraft Tel.: +43 4242 56300 228