

METROLOGY

FTIR Microscope

(combined FT-IR microscope & spectrometer)

Manufacturer: Bruker

Model: LUMOS



General Description:

The LUMOS is a fully automated stand-alone mid-IR microscope facilitating the measurement of both macroscopic and microscopic samples in transmission, reflection or attenuated total reflection (ATR). Applications include e.g. the identification of particles, contaminations and coatings as well as the determination of the chemical composition of complex samples. The instrument enables point analysis as well as highly resolved 2D maps. In addition, the instrument features a MACRO unit with various accessories for bulk analysis.

Key Specifications:

- spectral range: 650 – 4000 cm^{-1} @ 2 cm^{-1} spectral resolution
- meas. options: transmission | reflection | ATR (single reflection Ge crystal)
- motorised high-precision 3D table with 75 x 50 mm^2 travel range and sub-micron resolution; sample heights up to 40 mm
- 8 fold microscope objective with VIS polarisation option
- automatic 2D image acquisition
- accessories for bulk analysis: transmission, diffuse reflectance
- extensive spectral database for identification of unknown substances

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. Martin Kraft / DI Martin De Biasio Tel.: +43 4242 56300 236