

METROLOGY

FTIR / FTNIR Spectrometer

Manufacturer: Nicolet

Model: Nexus 870



General Description:

The Nexus 870 is a high-end research Fourier-Transform Infrared spectrometer, covering both the mid- and near-IR ranges in one instrument. A number of accessories (transmission, ATR, diffuse reflectance etc.) allow using it for solid, liquid and gaseous samples alike. In addition, the modular design allow for easy modifications, including e.g. the characterisation of (MEMS) light sources etc.

Key Specifications:

- spectral range:
 - 10000 – 4000 cm^{-1} (1 – 2.5 μm) in NIR mode (FT-NIR)
 - 4000 – 650 | 400 cm^{-1} (2.5 – 15.3 | 25 μm) in mid-IR mode (FT-IR)
- spectral resolution down to 0.25 cm^{-1}
- various detectors
 - liquid nitrogen cooled MCT-A detector
 - DLaTGS detector
 - extended InGaAs detector
 - Si detector
- different accessories
- external beam path, e.g. for light source characterisation

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