

Bruker optics Vertex70V FTIR spectrometer and Hyperlon 1000/2000 FTIR microscope



A high performance FTIR spectrometer providing absorption measurement of different IR frequencies by a sample (liquid, solid) positioned in the path of an IR beam. Main features:

- Factory aligned interferometer
- Vacuum sealed optics
- Spectral Resolution - better than 0.4 cm^{-1}
- MIR source and KBr beamsplitter ($7500\text{-}370 \text{ cm}^{-1}$) covering mid IR region ($8,000 \text{ to } 350 \text{ cm}^{-1}$)
- DLaTGS detector with KBr window which covers a spectral range from $12,000 \text{ to } 250 \text{ cm}^{-1}$ (RT operation)
- MCT detector with ZnSe window ($12000\text{-}600 \text{ cm}^{-1}$)
- Hyperion microscope with 4x/15x objective, reflectance/transmittance measurement capability with MCT detector.
- Hyperion microscope is coupled to the Vertex 70V system
- Far IR beamsplitter (Multilayer 6 micron $680\text{-}30 \text{ cm}^{-1}$)
- Far IR detector DLaTGS with PE window ($700\text{-}10 \text{ cm}^{-1}$, RT operation)
- OPUS control software