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Nicolet Magna IR-560 Fourier Transform Infrared Spectrometer

The Magna IR-560 is a research-grade, fully upgradeable FTIR spectrometer for experiments in step scan, linear scan, time resolved and rapid scan spectroscopy. The instrument is based upon advanced, high-speed digital signal processor technology. The system in ACMA is equipped with the Auxiliary Experimental Module, PIKE Technologies Variable Angle Specular Reflectance Accessory and Auto Polarizer, DTGS and MCT detectors and a potentiostat for use in a Subtractively Normalized Interfacial (SNIFTIRS) mode. With its Enhanced Syncronization Protocol (ESP) that synchronizes the setup, testing and operation of the spectrometer, the software, the sampling accessories and the spectral information, experiments performed with the instrument are fully optimized.

The Magna FTIR uses the OMNIC software, which provides the interface that makes the Magna smart system work. Full on-line documentation and multimedia help; automated recognition, experiment set-up, diagnostics and spectral quality checks; and data manipulation and management tools are just a few of the features of this powerful yet straightforward software.

Key Features:

Wavelength Range: 6500-100 cm^{-1}
Sensitivity: 0.125 cm^{-1} resolution; Spectral Resolution: 0.35 cm^{-1}
Slit Program: Automated / Continuous Variable Aperture
Vectra-Plus Interferometer: Vectra-Plus Interferometer
- DSP Controlled Continuous Dynamic Alignment
- DSP Controlled Auto-Tune
- Talon Beamsplitter Locking Mechanism

Light Source and Mid-IR Optics Configuration (7,400-350 cm-1): Ever-Glo Source; KBr Beamsplitter; DTGS Detector; Single Detector Optics
Cell Holder: MAPIR and 8” Wafer Insert

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