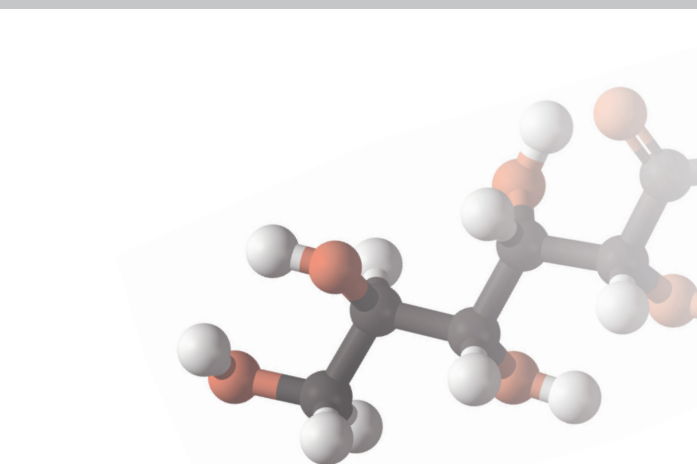


The Thermo Scientific Nicolet iS5 FT-IR spectrometer provides superior FT-IR performance in a compact size at an affordable price. Combining flexible sample handling and leading Thermo Scientific OMNIC software, the Nicolet iS5 spectrometer sets a new benchmark in its class of FT-IR instrumentation.

Thermo Scientific Nicolet iS5 FT-IR Spectrometer

Premium performance in a compact package



The Thermo Scientific Nicolet iS5 FT-IR spectrometer integrates high-performance optics into a small, rugged package. This spectrometer is perfect for use in teaching laboratories, small industrial facilities, or dedicated use in global manufacturing facilities.

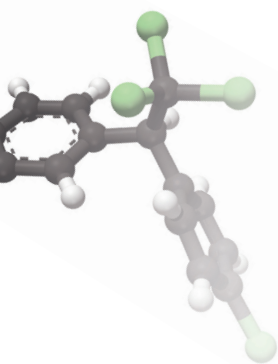
The Nicolet™ iS™5 spectrometer withstands hot, humid environments while its user-serviceable components greatly reduce service visits and lower maintenance costs.

The Nicolet iS5 FT-IR Spectrometer

- Affordable price
- Superior performance
- Small footprint
- Flexible sampling

Unique Optical System

The sealed and desiccated optical unit protects the instrument from humidity and solvent vapors. A self-compensating, dynamically aligned interferometer removes any tilt and shear scanning error, automatically tunes the instrument for best throughput and provides analysis speed for real time survey or screening. Diamond turned, pinned-in-place alignment-free optics guarantee long life system performance with minimum maintenance.



Performance

- Spectral range
 - 7800-350 cm^{-1} optimized, mid-infrared KBr beamsplitter
- Signal-to-noise*
 - 8,000:1 peak to peak in five seconds
 - 22,000:1 peak to peak in one minute
- Spectral resolution: better than 0.8 cm^{-1}
- Wavelength precision: 0.01 cm^{-1} at 2000 cm^{-1}

* KBr optics, 4 cm^{-1} spectral resolution



Easy, user-accessible source replacement

Optics

- **Detector:** Fast recovery deuterated triglycine sulfate (DTGS) detector
- **Source:** Mid-infrared Ever-Glo; user replaceable from bottom plate
- **Beamsplitter:** KBr/Ge mid infrared optimized
- **Laser:** Temperature controlled solid-state Near-IR diode laser

Electronics

- USB 2.0 high-speed bidirectional communication to PC

Dimensions

Size: 35 cm W × 28 cm D × 26 cm H
(13.5" W × 10.9" D × 10.2" H)
Weight: 10 kg (22 lbs)

Regulatory

Regulatory Approvals: CE, ETL

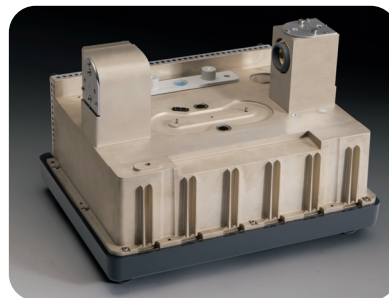
Performance Verification

- Automated performance verification as per ASTM E1421 to meet customer ISO/GLP requirements
- Internal NIST-traceable 1.5 MIL polystyrene film (serialized)
- Automatic accessory detection and performance verification
- System Suitability tests for complete system performance assurance



Humidity and Vapor Protection

- Tightly sealed and desiccated optical bench with protective KBr windows
- Optional ZnSe windows available for environments with excessive humidity
- Rechargeable desiccant cartridges with humidity indicator
- Internal diagnostics with electronic humidity and heat sensors



High performance optics in a rugged, lightweight package

Diagnostics

- Automatic accessory recognition
- Temperature
- Humidity

Serviceability

- User-replaceable components (without opening cover):
 - Source
 - Desiccant
 - Power supply
 - Sample compartment windows

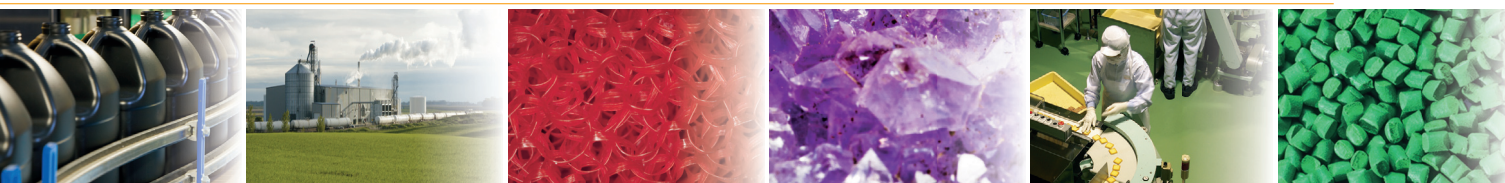
OMNIC Software

OMNIC™ software for the Nicolet iS5 spectrometer includes these standard features:

- Complete collection of spectral processing and analysis tools
- QCheck correlation for material verification
- Live display of data collection, and spectral data preview
- Customizable toolbar and menu options
- User logins and password protection
- Peak analysis tools: peak area, peak height
- Data processing, conversions and corrections
- Spectral Search and Library Manager
- Infrared spectral interpretation with online interpretation guide
- Automatic atmospheric suppression
- Full-featured report generator
- Quant prediction for PLS, PCR, Beer's Law, CLS, peak ratio, and Discriminant Analysis
- Windows® XP, Vista®, and Windows 7 compatible

Minimum PC Requirements

Microsoft® Windows XP OS, 1 GB RAM, 16 GB HDD, USB 2.0, 800 × 600 CRT/LCD display, accel graphics card



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