The Thermo Scientific™ Nicolet™ iS™5N FT-NIR spectrometer provides superior performance in a compact size at an affordable price. Combining flexible sample handling and leading Thermo™ Scientific™ OMNIC™ software, the Nicolet iS5N spectrometer sets the benchmark in its class of FT-NIR instrumentation.

Based on the popular Thermo Scientific Nicolet iS5 mid-infrared spectrometer, the Nicolet iS5N FT-NIR spectrometer integrates high-performance optics into a small, rugged package. The spectrometer is perfect for use in a wide range of settings, from small industrial facilities to global manufacturing sites.

The Nicolet iS5N spectrometer withstands hot, humid environments while its user-serviceable components greatly reduce service visits and lower maintenance costs.

The Nicolet iS5N FT-NIR 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. Pinned-in-place adjustment-free optics guarantee consistent system performance with minimum maintenance.
**Product Specifications**

**Performance**
- **Spectral range:** 11,000–3800 cm\(^{-1}\) optimized, CaF\(_2\) beamsplitter
- **Signal-to-noise:** 10 uABS RMS in less than a minute
- **Spectral resolution:** Better than 4 cm\(^{-1}\)
- **Wavelength precision:** 0.01 cm\(^{-1}\) at 5300 cm\(^{-1}\)
- **Linearity:** Slope 1 ± 0.05

**Optics**
- **Detector:** Extended range indium gallium arsenide (InGaAs)
- **Source:** High intensity halogen NIR; user replaceable from bottom plate
- **Beamsplitter:** CaF\(_2\), near-infrared
- **Laser:** Temperature stabilized 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)

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

**OMNIC Software**
OMNIC software for the Nicolet iS5N 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® 7 (32 or 64 bit) and Windows 8 (64 bit) compatible

**Minimum PC Requirements**
Microsoft® Windows 7 or 8 OS, 2 GB RAM, 3 GHz processor, 160 GB HDD, USB 2.0 or 3.0, 800 × 600 CRT/LCD display, DVD drive

www.thermofisher.com/iSSN

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PS52796_E 02/16M

Africa +27 1 333 50 34 0
Australia +61 3 9757 4300
Austria +43 810 282 206
Belgium +32 53 73 42 41
Canada +1 800 530 8447
China +86 21 6865 4588

Denmark +45 70 23 62 60
Europe-Other +43 1 333 50 34 0
Finland/Norway/Sweden +46 8 556 468 00
France +33 1 60 92 48 00
Germany +49 6103 408 1014

India +91 22 6742 9494
Italy +39 02 950 50 50
Japan +81 45 453 0100
Latin America +56 1 870 3330
Middle East +44 1 333 50 34 0
Netherlands +31 76 579 55 55

New Zealand +64 9 980 6700
Russia/CIS +43 1 333 50 34 0
Spain +34 914 845 865
Switzerland +41 61 716 77 00
UK +44 1442 233555
USA +1 800 532 4752