Thermo Fisher Scientific Nicolet iS 10 FT-IR Spectrometer

Thermo Scientific™ Nicolet™ iS™10 FT-IR spectrometer excels at rugged, precise, fast-paced operation,yet simplifies laboratory data collection to its most basic

SINGAPORE, SINGAPORE, SINGAPORE, December 12, 2013 /EINPresswire.com/ -- Thermo Scientific Nicolet iS 10 FT-IR spectrometer excels at rugged, precise, fast-paced operation, yet simplifies laboratory data collection to its most basic: load the sample, generate the spectrum, and press Print.

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> *TIARA INTANIA LTD*

The Nicolet iS10 FT-IR spectrometer is a complete infrared spectroscopy system for routine analytical needs. The Nicolet iS10 delivers the highest confidence in the verification and identification of materials and is designed for maximum assurance in its ability to sample and solve challenging problems with a minimal investment in time. Designed for use by any skill level, this spectrometer allows many tasks to be completed with only one click.

Designed for Instrument Qualification

System Performance Verification (SPV) ensures:

Spectrometer is performing as expected, day after day
Includes hardware and software to test the instrument against the ASTM E1421 method by using Schott NG-11 and NIST traceable standards, contained in a built-in motorized wheel
Programmable with settings for:

Daily performance verification

System suitability

Validation standards expiration date

Scheduling preventative maintenance visits

Designed for Ease of Use

The Nicolet iS10 FT-IR spectrometer has been designed for the ease of use and reliability required by laboratories with heavy workloads.

Easy to access, rechargeable desiccants and built-in humidity indicator
Integrated scan button and SOP builder, for simple user interface, consistency and productivity
Nicolet Smart Accessory technology for simple accessory exchange and experimental conditions setup
Material verification package with standard and high sensitivity correlation algorithm, to fit variability of tested materials
Innovative multi-component analysis allows identification of principal ingredients of mixtures, enabling every laboratory to troubleshoot contamination problems with confidence

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 tuning the instrument for best throughput and providing analysis speed for real time survey or screening. Diamond turned, pinned-in-place alignment-free optics guarantee long life system performance with minimum maintenance.

Spectrometer Performance Validation

Integrated validation wheel with NG-11 and NIST traceable polystyrene film standards, serialized
System Performance Verification (SPV) software and programmable tasks interface

Humidity and Vapor Protection

Frequency Calibration

Quality and Low Cost of Ownership - Guaranteed

Fully protected optics, to ensure maximum resistance from chemical vapors and humidity
Five-year warranty on diamond HATR crystal of the Thermo Scientific Smart iTR™ ATR accessory, optimized for the Nicolet iS10 spectrometer

Smart Accessory Compatibility

The Nicolet iS10 is compatible with our extensive line of Smart Accessories specialized for quantitative analysis, reaction studies, surface and thin firm measurements.

Simple accessory exchange and experiment setup
Maintain proper experimental conditions and pre-set parameters
Automatic performance verification

Configurable Options

External Beam Options

Optional external beam from infrared microscopes or external Thermo Scientific Nicolet iZ™10 FT-IR module
The Nicolet iZ10 FT-IR module can be used with the NIR integrating sphere (InGaAs detector) TGA interface or any other mid-infrared accessories, and can be equipped with a DTGS or MCT detector.

Validation Options for FDA, EP, JP Regulated Industries

ValPro™ System Qualification specifically addresses DQ/IQ/OQ (Design, Installation, and Operational Qualification). Proves “objective evidence” to regulators and ISO auditors, showing that their Thermo Scientific system has been properly selected, implemented, and verified for use in their process
Digital and electronic signature, 21 CFR Part 11 compliance package

Enhanced Analytical Power and Productivity

Measure samples directly through vials, with the integrating sphere conveniently mounted in the Nicolet iZ10 FT-IR module
Characterize materials quickly and easily by switching to TGA/IR interface installed in the Nicolet iZ10 FT-IR module
Achieve high throughput screening by powder and liquid auto samplers
Identify unknowns with the power of OMNIC Specta, which includes a 9,000 spectra database and innovative multi-component search routines

Ordering Alerts: This FT-IR spectrometer is sold as a configured system designed to meet your specific application needs. For more information, contact your Thermo Scientific Sales Representative.

Recommended for:

Quality control
Analytical services
Forensic duties

Specifications
Beam Splitter KBr/Ge mid infrared optimized (standard)

XT-KBr/Ge extended range mid-infrared (optional)
Detectors Fast recovery deuterated triglycine sulfate (DTGS) (standard)

Liquid-nitrogen-cooled mercury cadmium telluride (MCT) (optional)
Source Mid-infrared Ever-Glo; user replaceable from sample compartment

Tungsten/halogen user replaceable from sample compartment

AMI YETTI
TIARA INTANIA LTD
627617012867
email us here