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Thermo Scientific
Nicolet iS50 FT-IR Spectrometer

smarter FT-IR

definitive answers

Thermo
SCIENTIFIC

Nicolet iS50 FT-IR Spectrometer

materials analysis



POLYMERS and RUBBERS

– run one-touch raw materials ID, blending, morphology, and kinetics
– multi-task in a single workstation – one setup, multiple answers



FORENSICS

– access two Class-A SWGDRUG methods in a small-footprint unit
– simplify GC-IR analysis of isomeric materials to one operation



PHARMACEUTICALS

– analyze formulations and polymorphs via an integrated system
– validate and deploy QA/QC methods for process or loading-dock use



PIGMENTS, PAINTS and INKS

– find inorganic fillers and additives in an organic base
– correlate visible colors with formulation



FOOD, FLAVORS and OILS

– identify isomeric fragrances and flavors
– analyze moisture, fat, proteins and extracted oils from seeds



GENERAL LABORATORIES

– bring one-touch consistency to complex analyses
– increase laboratory power with many techniques in a small footprint

beyond imagination



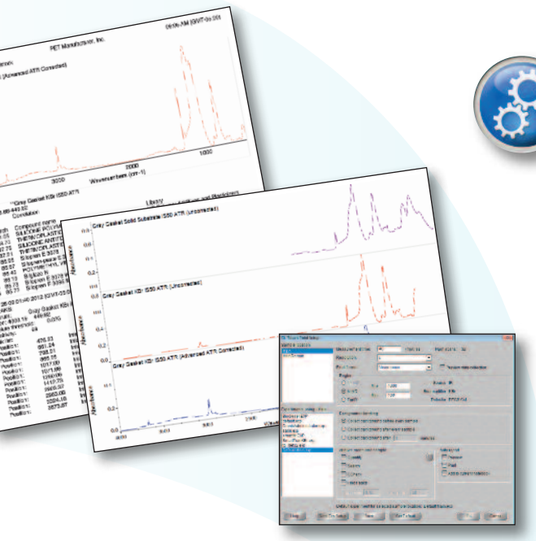
The Thermo Scientific Nicolet iS50 FT-IR spectrometer gives definitive answers in your analytical laboratory where fast, easy workflows are essential. No other FT-IR goes beyond your expectations to offer one-touch simplicity, flexibility and integration in such a small, cost-effective workstation. The Nicolet™ iS™50 is so advanced you won't think of it as simply an FT-IR.

Go beyond FT-IR to answers.



beyond the ordinary

raise productivity while reducing manual operations



Touch Point operation:
collect, analyze and report –
you do science, not data processing!

Touch Points

Collect, analyze and compile reports with one touch simplicity

As you add more capability, the Touch Points become more powerful, driving setup and checking performance so you don't need to.

- Select beam path, optical components and sampling module with one touch
- Create automated workflows with no programming
- Compile multiple spectra, analyses and images into one group file
- Track, organize and output information with auto-reporting

Built-in ATR

Engage your most powerful sampling technique anytime with built-in ATR

ATR like it was meant to be. Rugged, fast and always ready to go. Powders, liquids, gels and pastes can be analyzed, with no setup, using the iS50 ATR. All reflective optics and proprietary detector allow you to analyze organic and inorganic materials with mid- and far-IR spectroscopy. The iS50 ATR leaves the main sample compartment free for other analyses, never requiring you to swap accessories or break system seals.

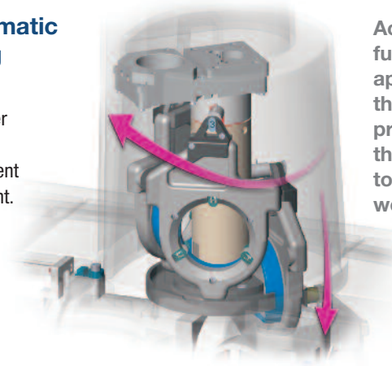
- Eliminate manual set-up procedures and instrument conditioning time
- Keep the main sample compartment clear for other experiments, such as Raman
- Examine hard, acidic or volatile materials with minimal sample preparation
- Analyze bulk polymers and fillers simultaneously



Automated Multi-range

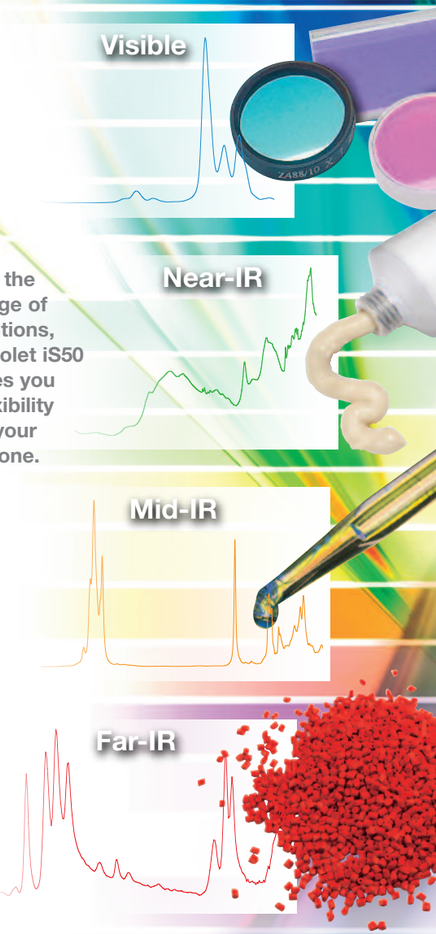
Redefine analytical productivity with automatic beamsplitter changing

Automate your analysis with the iS50 ABX Automated Beamsplitter exchanger, which enables the Nicolet iS50 to set up the instrument with a single press of a Touch Point. Now, you can do the complete analysis including crystallinity, bulk analysis, and identification, using near-, mid- and far-IR by loading samples and letting the instrument do all the work.



- Measure multiple aspects of your sample automatically
- Enable setup changes without disturbing seals, desiccation or purge
- Eliminate manual handling of optical components

Across the full range of applications, the Nicolet iS50 provides you the flexibility to get your work done.





Smart Flexibility

Target your analysis with the right accessory

Smart means getting the right tool for the job. It also means being able to use accessories you already have, with a spectrometer made to accept them.

- Get even more from your Smart Accessories through the Touch Points
- Use a full range of standard accessories
- Full-size sample compartment for large accessories



beyond FT-IR

expand your analysis horizons

Integrated Raman

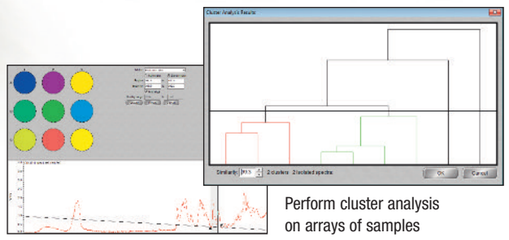
Add the power of Raman to complement your material characterization

The iS50 Raman accessory provides capabilities, like mapping and well-plate screening in a sample compartment mounted module. Never before has laboratory Raman analysis been so versatile, cost effective and easy to use.

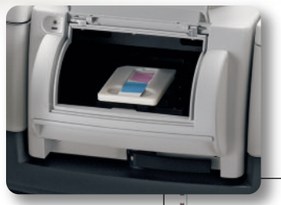
- Perform analysis of crystallinity and inorganics
- Complement your material identification with Raman
- Switch in seconds between the iS50 ATR and iS50 Raman
- Screen multiple samples for cluster analysis



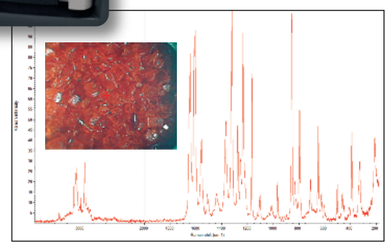




Perform cluster analysis on arrays of samples



Examine powders, tablets, films, fibers or particles



Capture video images to augment your reporting



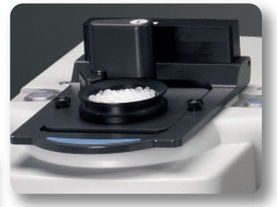
Dedicated NIR

Develop QC methods for bulk samples

The iS50 NIR module provides integrating sphere and fiber optic options in one compact unit.

- Initiate collection with one touch
- Run samples through containers without preparation
- Obtain consistent spectra from heterogeneous solids
- Sample solids and liquids in situ



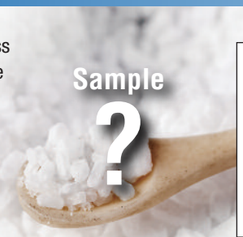


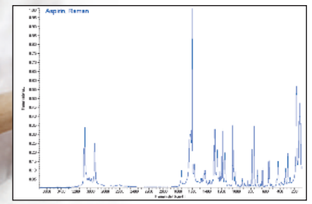
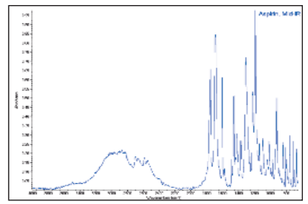
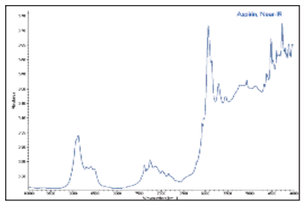
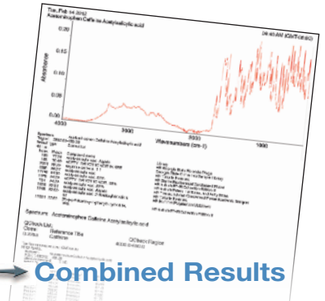
Accessories optimize your near-IR sampling

Complete Analysis in One Step

The Nicolet iS50 lets you automate your entire process even when combining techniques. Collect and analyze Raman, mid-IR ATR, near-IR and more in one Macros\Basic driven process. Walk away and come back to a combined report.

- Store images along with your data file
- Couple multiple data files and results for a project
- Build workflows for consistent results with any operator



Load →  Raman Analysis →  ATR Analysis →  Near-IR Analysis →  Combined Results

beyond results

bring simplicity and consistency to your operations

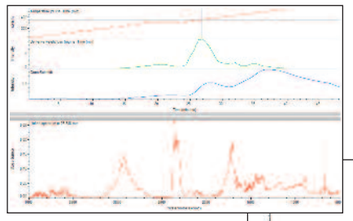


Definitive TGA-IR

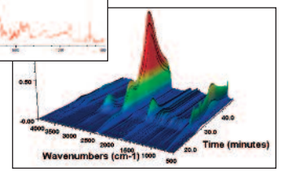
Make deformulation a routine procedure for your materials laboratory

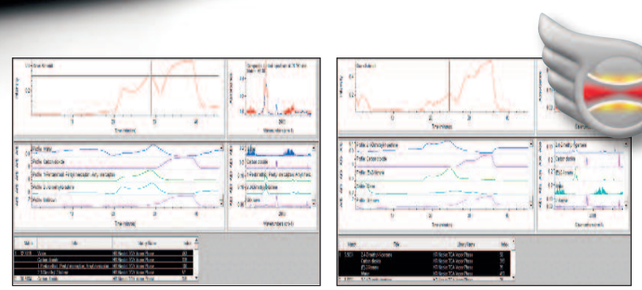
Complex gas mixtures evolved from the TGA experiment are automatically resolved and identified by the Mercury TGA software.

- Extract “what” and “how much” information from your material
- Get fast, consistent results easily with Mercury TGA software
- Probe starting and residual material via ATR to complete the picture



Data collection and visualization





Mercury TGA means TGA-IR is now a genuine analytical tool for any analyst in any laboratory. Put TGA-IR to work.

Compare outputs: the differences tell the story for failure analysis or reverse engineering





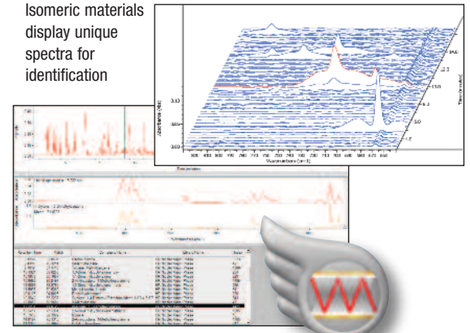
Streamlined GC-IR

Uniquely identify stereochemistry and trace chemicals

Get qualitative, isomer-specific analysis with no effort using the iS50 GC-IR modules and the Thermo Scientific OMNIC Mercury GC software. Your productivity can rise further using the industry standard Thermo Scientific Dionex Chromeleon chromatography data system software to drive autosamplers and simultaneous GC-FID and GC-IR detection. Add other features of the Nicolet iS50 to create the ultimate forensics laboratory workstation – Raman, ATR and GC – all integrated with the spectrometer.

- Analyze fuels, chemicals and drugs definitively
- Present data meaningfully using waterfall or 3-dimensional plots
- Extract peaks and identify them automatically using Mercury GC software

Isomeric materials display unique spectra for identification



Mercury GC software finds your GC-IR peaks and analyzes them automatically

Unlimited Potential



Expand your horizons with the Nicolet iS50

As your needs grow, so can the capabilities of the Nicolet iS50 spectrometer. Whether you are studying microscopic structures, organic thin films, fast reactions or new light sources, the Nicolet iS50 spectrometer enables your research now and in the future.



beyond tomorrow

the most trusted FT-IR in the industry is…



backed by world-class service and applications expertise. Equipped with tools to facilitate regulatory compliance. Field upgradable to ensure best fit to your future needs.

Our commitment to you ensures your ability to provide definitive answers…today, tomorrow and beyond.

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