

# Empower your Research with Instruments of Discovery



For over four decades, Thermo Fisher Scientific has been at the forefront of FTIR and Raman spectroscopy. Our reputation for combining research-grade analytical performance with intuitive user experience has made us a market leader in analytical instrumentation. The tagline of our legacy Nicolet product line was "Instruments of Discovery." That's a phrase we still live by today as we continue to innovate to enable you to accelerate your research.

## Adaptable hardware

Research is demanding and ever changing. You are pushing the boundaries of science and looking for novel ways to understand new materials. To achieve this requires instruments that accomplish what you need today and can adapt as your needs grow. The modular design of our spectroscopy instruments facilitates easy upgrades. We pioneered pinned-in-place optics, allowing you to change instrument components to adapt to your experimental needs simply and without complex alignment.

## Configurable solutions

We have deep experience of configuring instruments designed to tackle any challenge. Should you have a unique requirement, please ask us about it. Our US-based team of applications scientists and development engineers enjoys helping our customers solve their most difficult analytical problems.

## Industry-leading software

The Thermo Scientific™ OMNIC™ Software suite has become an industry standard with tens of thousands of copies in use. This software powers our range of FTIR and Raman spectrometers, providing the tools needed to acquire data from simple spectra to hyperspectral images and analyze spectra from simple identification to complex multi-dimensional datasets.

## Global scale – local support

Buying a research spectrometer is a significant investment. You want support throughout the lifetime of the instrument; not just in the first months after purchase. We can protect your investment with the peace-of-mind that comes with the industry's largest service and support organization. Unity Lab Services provides the support you need in your laboratory from installation through the years of research that your instrument was designed to empower.

Please contact your Thermo Fisher Scientific representative to learn more at [thermofisher.com/specinquiry](https://www.thermofisher.com/specinquiry)

# Instruments of Discovery



## FTIR Spectrometers

### Nicolet iS50 FTIR Spectrometer

Configurable from the UV to Far-IR (THz), the Thermo Scientific™ Nicolet™ iS50 Spectrometer is more than just an FT-IR. With **multiple beam ports, sources**, detectors and beamsplitters all accessible at the push of a button, the Nicolet iS50 is a fully-capable materials analysis workstation. Adding **FT-Raman, IR-microscopy, TGA-IR, GC-IR, NIR** and more is straightforward thanks to the modular design of this instrument.



### Nicolet iS50R FTIR Spectrometer

For advanced spectroscopy, the iS50R adds **step-scan** and **dual-channel** capabilities to the iS50. These features enable high-speed **time-resolved spectroscopy (TRS)**, **PM-IRRAS**, **photoacoustic spectroscopy (PAS)**, **VCD** and other advanced experiments.



## FTIR Microscopes & Imaging

### Nicolet Continuum IR Microscope

The **infinity-corrected** design of the Thermo Scientific™ Nicolet™ Continuum IR microscope combines high-resolution IR sampling with crisp white light microscopy. Simultaneous **view-and collect** makes data collection a snap, while the **dual aperture** ensures pure, diffraction-limited spectra. The Continuum can be equipped with all optical features of a research microscope: **fluorescence illumination, differential interference contrast (DIC)** and **polarization** enable to study and identify features not seen under visible light. Multiple objectives, reflection, transmission and ATR automated mapping make the Continuum an extraordinarily adaptable FTIR microscope.



### Nicolet iN10MX Infrared FTIR Imaging Microscope

The integrated and intuitive design of the Thermo Scientific™ Nicolet™ iN10 Microscopes assures optimal spectra from even the toughest of samples – including diffusely-scattering materials such as paper and tablets. Multiple detectors, including the standard room-temperature and the advanced **multi-element array imaging** detector, optimize data collection – from simple point-and-shoot to **high-speed imaging**. All this is packaged in a highly automated, software-driven system that sets the standard for data acquisition simplicity.



## Raman Microscope and Imaging

### DXR2 Raman Microscope

The Thermo Scientific™ DXR2 Raman microscope provides research-grade results with point-and-shoot simplicity. Data preview ensures collection parameters are optimized in real time, while fine control of **laser power** allows spectra to be acquired from samples that would otherwise overheat.



### DXR2xi Raman Imaging Microscope

The Thermo Scientific™ DXR2xi Raman Imaging Microscope combines high-speed, **high-resolution Raman imaging** with an intuitive interface that accommodates users from novice to expert. **Multiple laser** choices give you the ability to investigate a diverse range of samples; from biological tissues to novel nanomaterials. No matter what your sample type or level of expertise with Raman, the DXR2xi will provide results simply and easily.