

Boost productivity with advanced hardware, software and optics



➤ **Why adopt the Thermo Scientific™ Nicolet™ iS50 Spectrometer:**

- **Fluid transition:** Minimize transition costs by using the same software, libraries and accessories you know and rely on
- **Reproducible operation:** Touch points enable automated set-up and operation of multi-range experiments
- **High performance applications:** Module integration for multi-modal analysis including FT-Raman, TGA-IR, GC-IR
- **Automated Multi-range:** High flexible and configurable (far-IR to visible) enabling a complete materials analysis workstation

➤ **Compare the Nicolet X700 to the Nicolet iS50**

	Thermo Scientific™ Nicolet™ X700	Thermo Scientific Nicolet iS50
Automated multi-ranging	<ul style="list-style-type: none"> • Manual operation 	<ul style="list-style-type: none"> • Automated beam splitter exchanger (no touch, no exposure to dust or moisture) • Automatic detector selection
Built-in diamond ATR	<ul style="list-style-type: none"> • Sample compartment accessories 	<ul style="list-style-type: none"> • Built-in ATR with mid-far capabilities • In purge zone (always ready) • Leaves main sample compartment open for other accessories
Sample compartment FT-Raman	<ul style="list-style-type: none"> • Side mounted major accessory 	<ul style="list-style-type: none"> • Small footprint • Built in stage permits maps • Automation highly dependable diode excitation
TGA-IR Deformulation tools	<ul style="list-style-type: none"> • Sample compartment accessory with single spectrum analysis tools 	<ul style="list-style-type: none"> • Sample compartment accessory with complete deformulation analysis tools • Multi-component analysis with powerful reporting
Long life source	<ul style="list-style-type: none"> • 2-year source warranty; 2.5-year average lifetime • Hot spot can migrate 	<ul style="list-style-type: none"> • 10-year source warranty; 10+ year average lifetime • No hot spot migration
Multiple detectors to support multi-range and multi-modal use	<ul style="list-style-type: none"> • 2 internal detectors, 3 external beams 	<ul style="list-style-type: none"> • 5 internal detectors (3 sample compartment, BI-ATR, Raman) • 3 external beams
Excellent environment control	<ul style="list-style-type: none"> • Curved surfaces, loose seal 	<ul style="list-style-type: none"> • Flat, tight seals • Purge shutter option • Excellent far-IR performance
Warranty	<ul style="list-style-type: none"> • 5-year (interferometer, laser) • 2-year (source) 	<ul style="list-style-type: none"> • 10-year (interferometer, source) • 5-year (laser)

Visit thermofisher.com/is50 to see how the Nicolet iS50 FTIR Spectrometer can boost lab productivity.