thermoscientific

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	Manual operation	 Automated beam splitter exchanger (no touch, no exposure to dust or moisture)
		Automatic detector selection
Built-in diamond ATR	Sample compartment accessories	Built-in ATR with mid-far capabilities
		 In purge zone (always ready)
		 Leaves main sample compartment open for other accessories
Sample compartment FT-Raman	Side mounted major accessory	Small footprint
		Built in stage permits maps
		 Automation highly dependable diode excitation
TGA-IR Deformulation tools	Sample compartment accessory with single spectrum analysis tools	Sample compartment accessory with complete deformulation analysis tools
		Multi-component analysis with powerful reporting
Long life source	2-year source warranty; 2.5-year average lifetime	• 10-year source warranty; 10+ year average lifetime
	Hot spot can migrate	 No hot spot migration
Multiple detectors to support multi-range and multi-modal use	2 internal detectors, 3 external beams	• 5 internal detectors (3 sample compartment, BI-ATR, Raman)
		3 external beams
Excellent environment control	Curved surfaces, loose seal	Flat, tight seals
		Purge shutter option
		Excellent far-IR performance
Warranty	5-year (interferometer, laser)	10-year (interferometer, source)
	• 2-year (source)	• 5-year (laser)

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

