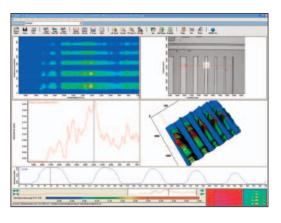
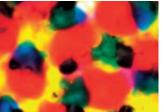
The Thermo Scientific Nicolet[™] Continuµm[™] infrared microscope sets the industry standard in infrared microscopy, combining unparalleled sampling performance with the contrast enhancement capabilities of light microscopy. This microscope provides you with the tools necessary to perform fast, accurate, and complete micro-sample analysis.

Nicolet Continuµm Infrared Microscope A research-guality, infrared

micro-sampling system

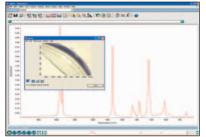








Thermo Fisher Scientific is your infrared microscopy partner. For decades, our innovative products have been chosen for more labs and solved more problems than any other manufacturer's. Our high-performance microscopes, combined with our powerful software and comprehensive sample preparation offerings, provide you with complete microscopy solutions. All of this, packaged with the support and the experience you expect from a world-class leader, offers you the ultimate microscope for your needs.



Sharp image, perfectly defined aperture and simultaneous spectral collection

Powerful Sampling Technology

Take full advantage of the Nicolet Continuµm's easy-to-use features:

- Eliminate sampling errors by observing the sample during data collection with patented TruView[™] optics
- Observe excellent visual images produced by infinity-corrected optics
- Locate low contrast sample features using techniques such as darkfield, polarized light, and differential interference contrast (DIC)
- Patented Reflex[™] aperture yields diffractionlimited spectra via dual remote image masking which provides exceptional spectral purity
- Annotate and save images using Microview[™] video-imaging software to create crystal clear pictures of your analyzed sample
- Analyze large areas of your sample with OMNIC[™] Atlµs[™] imaging software to get chemical and physical information



Product Specifications



Dual detector bay provides extended range of sensitivity options

Uniquely Configurable

Nicolet Continuum infrared (IR) microscopes offer unlimited micro-sampling options and maximum flexibility. A four-place turret provides a full complement of the following objectives:

- IR
- Attenuated total reflectance (ATR)
- · Grazing angle
- Visible
- · Side port reflectance
- Five detector choices allow you to take full advantage of the spectral range and sensitivity inherent to your spectrometer
- Multiple ATR crystal materials provide the flexibility to optimize sensitivity and minimize crystal damage from hard samples
- Reflachromat[®] objectives and condensers provide spherical aberration compensation for crystal clear viewing when using substrates or support materials
- 32X magnification and 50 µm detector provide the highest spatial resolution below 10 µm sample size

	Specification	Benefit
Sample Viewing		
Sample View	TruView – simultaneous view of sample while collecting data	Error-free sampling
	Full view of the sample area with aperture positioned Better than 1.0 μm visible image resolution	Observe the sample and spectrum in real time Saves time and eliminates sample positioning errors Highest image quality to see microscopic sample feature
Video Image	High quality 1/3 inch CCD digital camera USB2 with 1024 x 768 pixel array	Document sample image, collect video-integrated sample maps and mosaics of large areas
Sample Illumination	Aperture and field irises in illumination optics 50 Watt Köhler illumination	Optimize sample contrast and resolution illumination in the field of view Bright, even illumination in the field of view
Contrast Enhancement	Illumination infrared aperture Brightfield, darkfield, polarized light, DIC and	Highlight region of interest Enhances sample contrast and barriers by
Options	fluorescence	imparting vivid color images on colorless samples
licroscope Optics		
Microscope Platform	Purpose built, cast aluminum Infinity corrected optical design Trinocular viewer	Mounts to right or left side of spectrometer Highest image quality, undisturbed by optical filters Video capture plus binocular view of sample
Aperture	Fully automated Dual remote, pre- and post-sample masking from a single aperture (U.S. Patent No. 5,864,139)	Easy, fast operation Highest IR spatial resolution Perfect match of pre- and post-aperture dimension
Infrared Objectives	15X, with compensation, N.A. 0.58 32X, with compensation, N.A. 0.65 Grazing angle, N.A. 0.99	Optimize magnification and resolution of the sample
Visible Objectives	ATR 25X, sample/contact view capability Standard Olympus [™] style refractive	Offers precise sample positioning Uses widely available visible objectives
VISIBLE OBJECTIVES	4X, 10X, 20X and 40X	Excellent range of total magnification 40X – 400X
Sampling Modes	Transmission, reflection, grazing and ATR	Maximum sampling efficiency
ATR Options	Dedicated objective with ZnSe, Si, Ge and Diamond Slide-On for 15X objective – Si and Ge or Ge tip Integrated pressure sensor (U.S. Patent No. 5,172,182) Optional external quantitative pressure sensor	Controls depth of penetration, easily interchangeable Easy-to-use, low-cost ATR with great performance Crystal protection and automated operation Reproducible pressure
Condenser	15X with compensation, N.A. 0.58 32X with compensation, N.A. 0.65	Performance matched to chosen objective
licroscope Detectors		
Dual Detector Bay	Software selectable	Allows multiple detectors to use full spectral range capability of spectrometer
Detector Design	Stainless steel dewar	18-hour LN2 hold time eliminates need to cool detector frequently
Detector Options	Narrow-band MCT-A* Narrow-band MCT-A* (50 µm element) Medium-band MCT-A Wide-band MCT-B InGaAs (TE Cooled)	High performance, $11700 - 750 \text{ cm}^{-1}$ Samples smaller than 20 µm, $11700 - 700 \text{ cm}^{-1}$ Recommended, $11700 - 600 \text{ cm}^{-1}$ Widest spectral range, $11700 - 450 \text{ cm}^{-1}$ NIR Applications, $12000 - 3800 \text{ cm}^{-1}$
utomation Options		
Sample Stage	2^{\ast} x 5^{\ast} automated X, Y stage, 1.0 μm step precision	Automatically analyze large regions of the sample with points, lines and area maps
Sample Focus	Fully integrated autofocus and auto-ATR contact	Speeds sample positioning and data collection Optimize sample image and IR data collection
erformance Features		
Signal-to-noise Ratio (SNR)	Less than 7.2 x 10 ⁻⁵ Abs. Peak-to-peak noise 100 µm dual remote aperture, 2 minute, 4 cm ⁻¹ resolution	Faster data collection, high-quality results
ther		
Power Requirements	100 – 130 VAC 60 Hz or 220 – 240 VAC 50 Hz	Worldwide operation
Regulatory Approvals		Worldwide operation

All Thermo MCT detectors are covered by U.S. Patent No. 4,740,702

43 cm wide, 76 cm deep, 53 cm high

12-month, full warranty, opt 2, 3 and 4 years available

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Dimensions

Warranty

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Minimize bench space

Minimize operation costs

