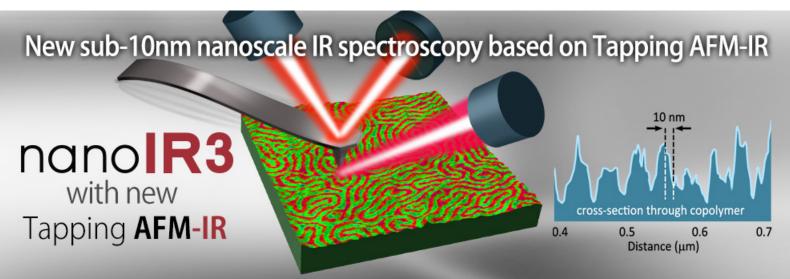


The world leader in nanoscale IR spectroscopy



Tapping AFM-IR

sub-10nm chemical imaging resolution

HYPERspectra

Highest performance nanoscale FTIR spectra

afm+

Nanoscale property mapping

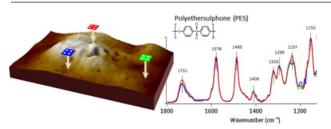
"Anasys engineered"

High performance, productivity, reliability

The nanoIR3 is the highest performance nanoscale IR spectroscopy, chemical imaging, and materials property mapping system for materials and life science applications.

HYPERspectra high speed spectra in seconds

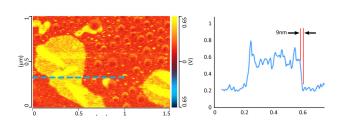
A proprietary Anasys instruments technology providing nanoscale FTIR spectra in seconds. *HYPER* spectra laser technology extends Resonance Enhanced **AFM-IR** to a wider spectroscopic range (including the OH, C-H stretch and N-H stretch regions) setting new standards of resolution and sensitivity for a broader range of applications and still providing unrivalled, direct correlation to FTIR at the nanoscale.



AFM-IR spectra and IR imaging shows variation of IR signal at different sites

Tapping **AFM-IR** sub-10nm chemical imaging

Our new patent-pending Tapping **AFM-IR** imaging technique creates chemical mapping of the highest spatial resolution combined with high imaging speeds. Whether your goal is creating chemical composition maps of polymers or to image the smallest, thinnest contaminants or multilayer films, obtaining high resolution chemical imaging, is easy and fast.



IR line profile shows <10nm chemical spatial resolution using Tapping AFM-IR mode

Highest spatial resolution and monolayer sensitivity

Anasys' proprietary Tapping AFM-IR and HYPERspectra sets new standards in resolution and sensitivity achieving sub-10nm spatial resolution, while maintaining monolayer sensitivity.

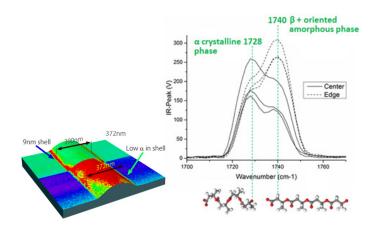
Multi-modal imaging: Adding nanoscale material property mapping with afm+

An integrated, fully featured afm provides unique material property mapping capabilities with thermal, mechanical and electrical modes to support unique multi-modal characterization of a wide range of materials science and life science applications.

POINTspectra imaging and spectroscopy with the same laser source

The nanolR3 also provides IR based chemical imaging to provide mapping of chemical variations of the feature of interest. Unique PointSpectra feature uniquely provides both point spectroscopy and chemical imaging with a single laser source enabling faster time to data and more cost effective solution.

nanolR measurements on polymer nano fibers Courtesy: John Rabolt et al, University of Delaware



Specifications

Laser tuning range	HPYERspectra QCL 780-1800 cm ⁻¹ FASTspectra QCL Option: 950-1900cm ⁻¹	nano IR3
XYZ Scan Range	50 μm x 50 μm x 6 μm	
Standard imaging modes	Tapping, Phase Imaging, Contact, Lateral Force, Force Curves, Force Modulation, EFM/MFM mode	ANASYS
Optional imaging modes	nanoTA, SThM, CAFM, Lorentz Contact Resonance, KPFM	ranoira
AFM options	Environmental enclosure, heater/cooler, fluid imaging accessory	





Make New Discoveries: www.anasysinstruments.com/products/nanoir3



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