BRUKER Optics

HYPERION™ series

lookforward

HYPERION™ series provides the highest level of FT-IR microscopy available today, utilizing state-of-the-art optics for optimal sample visualization and infrared data collection for the demanding applications of tomorrow.

HYPERION™ ***2000*** and ***TENSOR***™ ***27***

- Highest degree of sensitivity
- Chemical Imaging
- Full manual and/or software control
- Dual detector capability
- Stray light free data
- Simultaneous view and measurement mode
- Reliable condenser z-axis adjustment

The new ***HYPERION***™ is the culmination of more than 17 years FT-IR microanalysis. Significant improvements in the design of the optics, mechanics and electronics provide a very stable and reliable system for routine laboratory and R&D work.

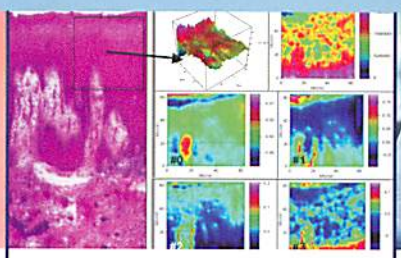
HYPERION™ is the ultimate measurement tool for challenging micro-applications; to include forensics, biomedical, polymeric and engineering applications to name a few.

Featuring full automation, infrared chemical imaging, crystal-clear sample viewing and a wide variety of IR and visible objectives, the ***HYPERION***™ provides you with everything needed to conduct the most sensitive microanalysis easily and efficiently.

The ***HYPERION***™ series is unique in that it can be upgraded from a base configuration to full imaging. The high quality optics and hardware together with the integrated OPUS VIDEO, MAP and 3D software packages provide unmatched system performance for the acquisition, evaluation and presentation of microspectroscopic data.

innovative, intuitive, intelligent

HYPERION™ series enhances your capabilities in microspectroscopy.



OPUS™ software features full integration, automation and ease of use.

HYPERION™ series meets the needs of today's and tomorrow's laboratories.

Optional LCD display system for continuous viewing of the samples.

Microspectroscopy

www.brukeroptics.com/hyperion

ATR-objective with pressure sensitive contact sensor

HYPERION™ series

ATR Objectives

The innovative design of ***HYPERION***™ 's ATR objective enables it to be used as a 20x objective and for ATR surface measurements. Simple raising and lowering of the ATR crystal provides easy switching between measurement modes and by utilizing electronic sensors, the crystal-sample contact is always optimized.

Grazing Angle Objectives

The measurement of thin coatings on substrates often requires grazing angle incidence reflection to improve the interaction of the IR beam with the sample. Bruker's proprietary design achieves the highest level of sensitivity while retaining the polarization characteristics of the infrared beam.

Fast Aperture Changes

In addition to the standard iris aperture, both knife-edge and view-through knife-edge apertures are available. Changing apertures is fast and easy, where no realignment is required.

Sample Stages

Interchangeable rotatable, heatable and computer controlled stages are available for specialized applications. The optional Plexiglas purge box minimizes the interference of water vapor which could be problematic for extended mapping experiments.

Focal Plane Array Detector

The ***HYPERION***™ series can be upgraded from a base configuration to gain more capabilities. ***HYPERION***™ ***3000*** uses Focal Plane Array (FPA) technology combined with FT-IR microscopy. The user may select between normal single detector spectroscopy and FPA imaging using the same microscope.

Chemical Imaging

The ***HYPERION***™ ***3000*** represents the pinnacle of infrared microspectroscopy, incorporating state-of-the-art Focal Plane Array detectors for the most demanding infrared imaging applications. High-resolution chemical images can be collected in a matter of just a few seconds. The ***HYPERION***™ ***3000*** continues the tradition of providing the highest quality images available to meet your microscopic needs. The ***HYPERION***™ ***3000*** can even be used to acquire data in the Near Infrared. Typical applications for chemical imaging are:

- Combinatorial Chemistry
- Tissue Diagnostics
- Art Conservation
- Forensic Science
- Micromechanical Engineering
- Bone Pathology (prosthesis)
- Polymer Blends
- Paper Products

HYPERION™ ***2000***

HYPERION™ ***3000***

For more information contact us:

Bruker Optics Inc
+ 1 978 439 9899
www.brukeroptics.com
optics@brukeroptics.com

Bruker Optik GmbH
+49 7243 504-600
www.bruker.de/optik
optik@bruker.de