

# IlluminatIR II™

## INFRARED MICROPROBE



### Feature Highlights

- **Molecular analysis at the touch of a button**
- **Integrated near-IR video imaging system**
- **Automated software simplifies spectral collection**
- **The ability to collect visible image and spectra data simultaneously**
- **Detailed customizable reports**

The IlluminatIR II infrared microscope accessory brings the power of molecular analysis to light microscopy. This compact, high-performance Fourier Transform Infrared (FT-IR) Spectrometer transforms a commercial light microscope into a versatile infrared microprobe by interfacing to a modern infinity-corrected light microscope. The IlluminatIR II creates a powerful system that provides instant molecular information and superior visual quality without compromising any of the microscope's original capabilities.

Gathering molecular information has never been easier. Whether your training is in traditional

microscopy or spectroscopy the IlluminatIR II gives you the independence to easily and conveniently perform material characterization. Simply center the sample in the cross-hairs, select the area to be analyzed, collect the sample's spectra, and read the results.

The IlluminatIR II system, driven by SynchronizIR software, automates and simplifies spectral data collection, analysis, and reporting. SynchronizIR software gives users the ability to collect visible images and infrared spectra sequentially and store them together in a database format. This enables users to build detailed customized reports and supporting images and spectra.

# IlluminatIR II

## General Specifications

Weight	26 lbs.
Size	13" x 17" x 8"
Spectral Range	4000 $\text{cm}^{-1}$ - 650 $\text{cm}^{-1}$
Sample Sizes	12 $\mu\text{m}$ - 100 $\mu\text{m}$
Infrared Objectives	All Reflecting Objective (ARO) Diamond Attenuated Total Reflectance Objective (ATR)
Compatible Microscopes	Olympus BX series; Nikon E600, Eclips 800, ME 600; Leica DLMLM, DMLP; Zeis Axioscope, Axiotech
Compatible Microscopy Techniques	Brightfield, Darkfield, Polarized Light Microscopy (PLM), Differential Interference Contrast (DIC), Fluorescence, Hot Stage Microscopy
Compatible Microscope Techniques	Raman Microprobe Spectroscopy, Visible Microscopy
Software	Integrated SynchronizIR software provides infrared capabilities along with image capture and processing capabilities in ne, easy to use software package. The infrared data and visible image is stored together in a database format.

## Available Options

ATR Libraries

### USA

Smiths Detection Inc.  
14 Commerce Drive  
Danbury, CT 06810  
T: +1 203 207 9700  
F: +1 203 207 9780  
danbury@smithsdetection.com

### INTERNATIONAL

Smiths Detection Ltd.  
Genesis Centre  
Science Park South  
Birchwood  
Warrington WA3 7BH  
T: +44 (0) 19 2583 8494  
F: +44 (0) 19 2583 8463  
sddinternational@smithsdetection.com