

IlluminatIR™

FT-IR ACCESSORY FOR LIGHT MICROSCOPY



Feature Highlights

- **Unique accessory to enhance your microscope**
- **Minimal sample prep**
- **Definitive spectral signatures in seconds**
- **Only FT-IR accessory for light microscopy**
- **Combines infrared spectroscopy with PLM, DIC, fluorescence and other advanced microscopy techniques**

The IlluminatIR infrared microscope accessory brings the power of chemical 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 creates a powerful system that provides instant chemical information and superior visual quality without compromising any of the microscope's original capabilities.

Gathering chemical information has never been easier. Whether your training is in traditional microscopy or spectroscopy the IlluminatIR gives you

the independence to easily and conveniently perform material identification and 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 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 an industry standard database format. This enables users to build detailed customized reports and supporting images and spectra using standard word processing software.

Technical Data **IlluminatIR**

General Specifications

Weight	21 lbs.
Size	8" x 16.5" x 6"
Spectral Range	4000 cm ⁻¹ – 650 cm ⁻¹
Sample Sizes	10 µm – 100 µm
Infrared Objectives	All Reflecting Objective (ARO) Diamond Attenuated Total Reflectance Objective (DATR)
Compatible Microscopes	We have installed the IlluminatIR on Olympus, Nikon, Leica and Zeiss. Others may be compatible.
Compatible Microscopy Techniques	Brightfield, Darkfield, Polarized Light Microscopy (PLM), Differential Interference Contrast (DIC), Fluorescence, Hot Stage Microscopy.
Compatible Microscope Techniques	Raman Microprobe Spectroscopy, Visible Microspectroscopy
Beam Splitter	KBR or ZnSe
Software	Integrated SynchroniZIR software provides infrared capabilities along with image capture and processing capabilities in an easy to use software package. The infrared data and visible image is stored together in a database format.

Available Options

- ATR Libraries
- Inegrated Thermal Microspectroscopy (ATMS)
- Long Working Distance (LWD) 10x ARO

USA

Scientific Division /Service

Smiths Detection Inc.
21 Commerce Dr.
Danbury, CT 06810
T: +1 203 207 9700
F: +1 203 207 9780
Toll-free: 1 888 473 6747
danbury@smithsdetection.com

Civil Market

Smiths Detection Inc.
30 Hook Mountain Rd.
PO Box 410
Pine Brook, NJ 07058
T: +1 973 830 2100
F: +1 973 830 2200
USinfo@smithsdetection.com

US Military Market

Smiths Detection Inc.
2202 Lakeside Blvd.
Edgewood, MD 21040
T: +1 410 510 9100
F: +1 410 510 9491
militaryus@smithsdetection.com

International

Germany

Smiths Heimann GmbH
Im Herzen 4
65205 Wiesbaden
T: +49 (0)611 9412 0
F: +49 (0)611 9412 229
mail.germany@smiths-heimann.com

UK

Smiths Detection International UK
459 Park Ave.
Bushey, Watford
Herts WD23 2BW
T: +44 (0) 1923 294400
F: +44 (0) 1923 294401
uk@smiths-heimann.com

France

Smiths Heimann S.A.S.
36, rue Charles Heller
94400 Vitry sur Seine
T: +33 (0)1 55 53 55 55
F: +33 (0)1 46 80 34 99
mail.france@smiths-heimann.com

Canada

Smiths Detection - Toronto Ltd.
7030 Century Avenue
Mississauga, Ontario
Canada L5N 2V8
T: +1 905 817 5990
F: +1 905 817 5992

Smiths Detection Montréal Inc.
950 Bergar, Laval (Quebec)
Canada H7L 5A1
T: +1 (450) 967 0010
F: +1 (450) 967 7444
mail.canada@smiths-heimann.com