

Irtron μ

*Compact, in-compartment microscope
for the FT/IR-4000/6000 Series*



Jasco

Irtron μ

Sample compartment microscope for FT-IR

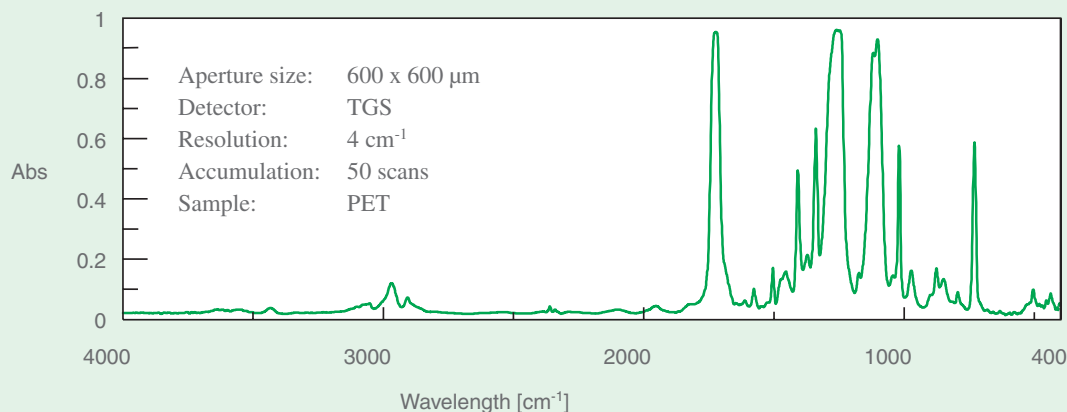


The Irtron μ sample compartment microscopy system is designed to provide affordable analysis of microscopic samples with the high performance features of an external FT-IR microscope accessory. The Irtron μ offers unprecedented convenience and ease of use, compatible with the JASCO FT/IR-4000 and 6000 Series FT-IR instruments. The microscope accessory installs into the spectrometer sample compartment in seconds without optical alignment. The state-of-the-art optical design guarantees high throughput for highly sensitive measurements of samples approaching 20 microns.

The Irtron μ can be operated with the integrated touch panel or via a PC using the Spectra Manager™ II software interface. The sample is observed with the integrated color CCD camera and 5 inch TFT color LCD monitor. JASCO's unique ATOS (Aperture Through Optical System) provides simultaneous viewing of the sample image and sampling location specified by the aperture. The ATOS combined with the SmartMonitor™ feature allows observation of the sample while collecting spectra in real-time using the monitor mode. An option within the Spectra Manager control package allows auto-saving of the collected spectra as well as the sample image(s).

Transmission measurement using the DLATGS detector

The TGS detector provides excellent performance with a full mid-IR spectral range from 4,000 to 400 wavenumbers.



- Transmittance, reflectance and ATR (option) measurement modes
- DLATGS, MCT or NIR optimized detector
- Unique SmartMonitor™ function allows sample observation during spectrum preview
- Five inch TFT LCD monitor for sample observation
- Optional sampling accessories for liquid and powder samples
- Affordable, easy-to-use microscopy system



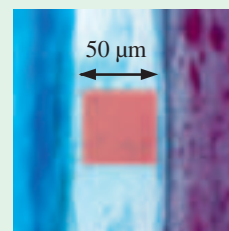
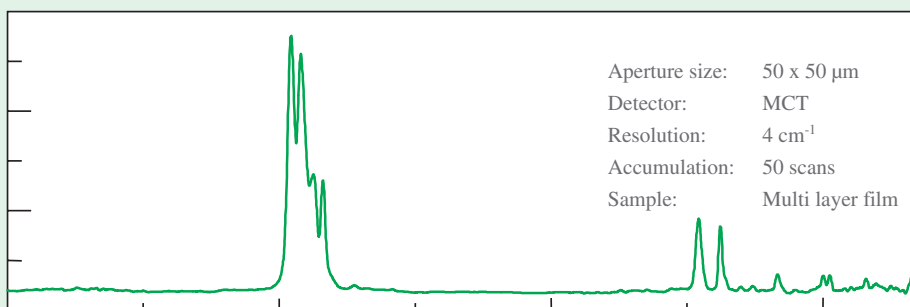
SmartMonitor™

JASCO's unique SmartMonitor™ function allows sample observation during preview of sample spectra. This function allows selection of the best sample position while monitoring the IR spectrum in real time.



Transmission measurement with the MCT detector

The MCT detector provides excellent sensitivity and sample measurements approaching 20 microns.



Irtron μ

A range of optional accessories



SmartPurge™

An optional purge casing can be used to eliminate interference from CO₂ and water vapor bands.



Liquid sample holder

The liquid sample holder includes three standard spacers; 0.1, 0.05 and 0.025 mm pathlengths for liquid sample analyses.



ATR objective

Three types of optional ATR objectives are available, selecting from ZnSe, Ge, and Diamond crystal elements.



Powder sample holder

The powder sample holder can be used for diffuse reflectance measurements of powdered samples mixed with KBr. Up to five samples can be loaded onto the holder.



Pressure sensor

An optional pressure sensor (recommended) to protect the ATR objective is also available.



SliceMaster™

SliceMaster™ is a handy compact instrument that can easily create thin sections by cutting film-type samples. The SliceMaster is a low-cost cutting tool with capabilities comparable to a general purpose microtome.



● Specifications are subject to change without notice.

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