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



JASCO

Irtronμ

Sample compartment microscope for FT-IR



- **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™

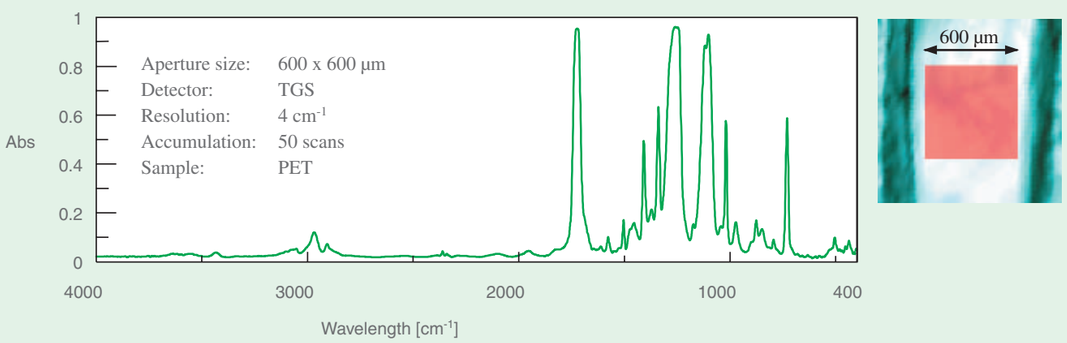
JASCO's unique SmartMonitor™ function allows sample observation during preview of sample spectra. This function allows selection of the best sample position while monitoring the IR spectrum in real time.

The Irtronμ 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 Irtronμ 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 Irtronμ 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).

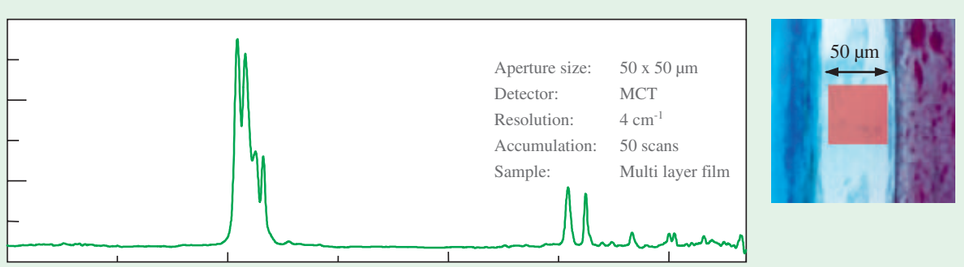
Transmission measurement using the DLATGS detector

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



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 CO_2 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.



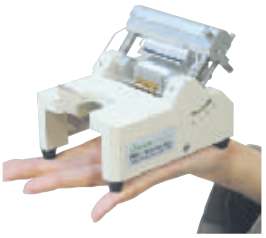
Powder sample holder

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.

JASCO

● **Specifications are subject to change without notice.**

JASCO INTERNATIONAL CO., LTD.

4-21, Sennin-cho 2-chome, Hachioji, Tokyo 193-0835, Japan
Tel: +81-426-66-1322 Fax: +81-426-65-6512 Internet: http://www.jascoint.co.jp/english/index.html
Australia, China, Hong Kong, India, Indonesia, Iran, Korea, Malaysia, New Zealand,
Pakistan, Philippines, Russia, Singapore, South Africa, Taiwan, Thailand

JASCO INCORPORATED

8649 Commerce Drive, Easton, Maryland 21601-9903, U.S.A
Tel:+1-800-333-5272 Tel:+1-410-822-1220 Fax:+1-410-822-7526 Internet:http://www.jascoinc.com
Canada, Costa Rica, Mexico, Puerto Rico, Argentina, Brazil, Chile, Colombia, Paraguay, Peru, Uruguay

JASCO EUROPE s.r.l.

Via Confalonieri 25, 23894 Cremella (Lc), Italy
Tel: +39-039-956439 Fax: +39-039-958642 www.jasco-europe.com
JASCO Deutschland www.jasco.de, **JASCO UK** www.jasco.co.uk, **JASCO France** www.jascofrance.fr,
JASCO Benelux www.jasco.nl, **JASCO Spain** www.jasco-spain.com, **JASCO Scandinavia** www.jascoscandinavia.se
Austria, Finland, Greece, Hungary, Poland, Portugal, Romania, Switzerland, Algeria, Cyprus,
Egypt, Israel, Jordan, Kuwait, Lebanon, Morocco, Saudi Arabia, Syria, Tunisia, Turkey, U.A.E.

ISO 9001 Certified

Products described herein are designed and manufactured by ISO-9001-certified JASCO Corporation.

Serving the global marketplace with Analytical Instrumentation

JASCO Corporation

2967-5, Ishikawa-cho, Hachioji, Tokyo 192-8537, Japan
http://www.jasco.co.jp

IR01-0609 Printed in Japan