



lambda FTIR-7600S FT-IR Spectrometer User Manual

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Introductions

FTIR-7600S is a single-beam FT-IR spectrometer. This instrument is operated by a PC with user friendly software and a comprehensive manual.

Fast scan speeds, high accuracy and ease with operation are standard features. It is an indispensable analysis tool for various application fields such as chemistry, biology, pharmaceutical, materials, mineral, food and

beverage, wine industry and quality control.

- Easy to Operate
- Powerful Software
- Easy Sample Preparation
- Simple Maintenance
- USB Interfacing
- Cost Effective

High stable optical system

- The design integrates main components to an optical bench machined from a cast aluminium . Highly stable and no need for adjustment, removing troubles of maintenance of optical path
- Precision machinery ensures high repeatability of every scanning. Advanced design concept is adopted in both optical path and every part
- The system's corner cube optics provides easy operation without requiring complicated electronics and additional moving parts. In addition, many components of the spectrometer are user replaceable which saves time over the lifetime of the instrument.
- Internal dynamic collimation system and movable mirror driving system keep the interferometer at optimum situation. Voice-coil driver and precision slide improves the ability of working in severe conditions.
- The interferometer is sealed with desiccant canister to protects the KBr beamsplitter and other optical components from moisture damage.
- High performance pyroelectric infrared detector together with its circuit board is sealed with a round desiccant canister to protect the coated KBr window of detector from moisture damage.

Specifications

Wavenumber Range	7800~375 cm^{-1}
Resolution	1 cm^{-1}
Signal Noise Ratio	30000:1 (resolution@4 cm^{-1} , sample and background scan for 1 min@2100 cm^{-1})
Detector	High performance pyroelectric infrared detector
Beamsplitter	Coated KBr
Light Source	Long life, steady state infrared emitter
Electronic System	24bit A/D converter at 500KHz, USB 2.0
Power	100-240VAC, 50/60Hz
Dimensions	450mm x 350mm x 210mm
Weight	14 kg

Optional Accessories

Standard sample compartment allows many types of accessories to extend the functions of the spectrometer.

- Sample cards
- Liquid cells
- Air cells
- ATR
- Cuvettes

Parts Included

Description	Qty
Main Spectrometer	1
Software CD	1
User Manual	1
USB Cable	1
Polystyrene Film Reference	1
Allen Wrench 3 mm	1
Allen Wrench 2 mm	1
Replacement Desiccant canister	1
Replacement Round Desiccant Canister	1
Spanner for Round Desiccant Canister	1
Software Manual	1
Dust Cover	1
Power Supply	1
Power Cord	1
Tweezers	1

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Documents / Resources

	<p>lambda FTIR-7600S FT-IR Spectrometer [pdf] User Manual FTIR 7600S FT-IR Spectrometer, FTIR 7600S, FT-IR Spectrometer, Spectrometer</p>
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References

-  [Lambda](#)

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