



THE LAB EQUIPMENT

Email : sales@thelabequipment.com

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Product Name :

Fourier Transform Infrared Spectrometer
(FTIR)

Product Code :

SCI-304/07

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Website: <https://www.thelabequipment.com>, **Email:** sales@thelabequipment.com

plot. no.296. Sector 5. Vaishali. Ghaziabad. Uttar Pradesh 201010



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Description :

Features :-

- Incorporates a bright, optimized optical system and a high-sensitivity MCT detector to enable high-sensitivity measurement.
- The auto aperture, auto centering, and auto X-Y stage functions simplify determination of the desired analysis location.
- The auto focus function makes focusing simple.
- Up to 10 sample positions and 2 background measurement positions can be stored in memory.
- All microscope operations, such as stage movement, aperture setting and focusing, and switching between transmission/reflection and measurement/observation modes, can be controlled from the computer screen.
- Operation is also possible from the microscope's own keyboard.

Technical Specification :-

- Interferometer : Michelson interferometer (30° incident angle)
- Optical system : Single-beam optics
- Beam splitter : Germanium-coated KBr
- Light source : High-energy ceramic light source

DESCRIPTION :-

- Standard Wavenumber Measurement Range 7,800 to 350 cm⁻¹
- Display Wavenumber Range 15,000 to 0 cm⁻¹ (standard)
- Wavenumber Accuracy Within ± 0.01 cm⁻¹ (theoretical value)
- Maximum Resolution : 0.4 cm⁻¹
- Optical System Single beam Sample Chamber Size: 200 mm (Width) x 260 mm (Depth) x 185 mm
- Optical path: Centre focus, light axis 70 mm high Interferometer 45o Michelson interferometer
- Corner cube mirror interferometer, with auto- alignment
- mechanism, sealed structure, DSP control
- N₂ Purge Interferometer, Sample Compartment, Detector
- Drive Method Mechanical bearing, electromagnetic drive
- Drive Speed Auto, 1, 2, 3, 4 mm/sec
- AUTO DLATGS 2.0 mm/sec
- MCT (optional) 4.0 mm/sec
- Rapid Scan 10 Hz (optional)
- Beam Splitter Standard: Ge/KBr
- Light Source Standard: High-intensity ceramic source
- Detector DLaTGS (with Peltier temperature control) (standard)
- Signal-to-Noise Ratio:35,000:1
- Gain Switching AUTO, 1, 2, 4, 8, 16, 32, 64, 128 100%T
- Line Flatness Within $100 \pm 1.0\%$ T {4,000 to 700 cm⁻¹, continuous repetitive measurement)
- Communication USB 2.0
- Warranty for one year.

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