



Email : [sales@scilabexport.com](mailto:sales@scilabexport.com)

Phone: +91-7082934803

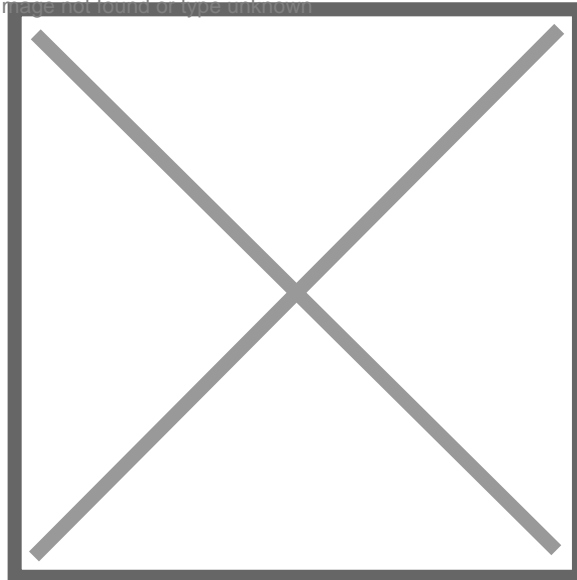
**Product Name :**

Fourier Transform Infrared Spectrometer  
(FTIR)

**Product Code :**

SCI-304/07

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1226/1-5, Bengali Mohalla, Science Market | 133001, Harvana



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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<sup>-1</sup>
- Display Wavenumber Range 15,000 to 0 cm<sup>-1</sup> (standard)
- Wavenumber Accuracy Within  $\pm 0.01$  cm<sup>-1</sup> (theoretical value)
- Maximum Resolution : 0.4 cm<sup>-1</sup>
- 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 45° Michelson interferometer
- Corner cube mirror interferometer, with auto- alignment
- mechanism, sealed structure, DSP control
- N<sub>2</sub> 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<sup>-1</sup>, continuous repetitive measurement)
- Communication USB 2.0
- Warranty for one year.

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