

Order Code - 58017



FEATURES

- New type cube-corner Michelson interferometer features smaller size and more compact structure, providing higher stability and less sensitive to vibrations and thermal variations than conventional Michelson interferometer.
- Fully sealed damp and dust proof interferometer, adopting high performance, long lifetime sealing material and desiccator, ensures higher adaptability to the environment and increases accuracy and reliability in operation. Viewable window for silica gel enables easy observation and replacement.
- Isolated IR source and large space heat dissipation chamber design provides higher thermal stability. Stable interference is obtained without the need of dynamic adjustment.
- High intensity IR source adopts a reflex sphere to obtain even and stable IR radiation.
- Cooling fan stretch suspending design ensures good mechanical stability.
- Super wide sample compartment provides more flexibility to accommodate various accessories.
- The application of programmable gain amplifier, high accuracy A/D converter and embedded computer improves the accuracy and reliability of the whole system.
- The spectrometer connects to PC via a USB port for automatic control and data communication, fully realizing plug-and-play operation.
- Compatible PC control with user friendly, rich function software enables easy, convenient and flexible operation. Spectrum collection, spectrum conversion, spectrum processing, spectrum analyzing, and spectrum output function etc. can be performed.
- Various special IR libraries are available for routine search. Users can also add and maintain the libraries or set up new libraries by themselves.
- Accessories such as Defused/Specular Reflection, ATR, Liquid cell, Gas cell, and IR microscope etc can be mounted in the sample compartment.

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

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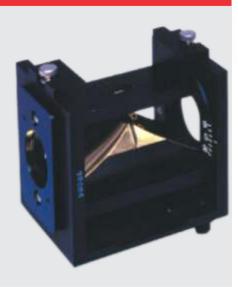
Technical Specifications

7800 to 350 cm ⁻¹
Better than 0.85cm ⁻¹
Better than 0.5cm ⁻¹
±0.01cm ⁻¹
5-step adjustable for different applications
better than 15,000:1 (RMS value, at 2100cm-1, resolution: 4cm-1, detector: DIGS, 1 minute data collection)
Ge coated Kbr
Air-cooled, high efficiency Reflex Sphere module
DTGS
Compatible computer
FT-IR software contains all routines needed for basic spectrometer operations, including library search, quantitation and spectrum export
11 IR libraries included
54x52x26cm
28kg

(Optional) Accessories

Diffuse/Specular Reflectance Accessory

- It is a versatile diffuse reflectance and specular reflectance accessory. Diffuse reflection mode is used for transparent and powder sample analysis. Specular reflection mode is for measuring smooth reflective surface and coating surface.
- High light throughput
- Easy operation, no internal adjustment needed
- Optical aberration compensation
- Small light spot, able to measure micro samples
- Variable angle of incidence
- Fast change of powder cup



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Horizontal ATR /Variable Angle ATR (30° ~ 60°)

Horizontal ATR is suitable for the analysis of rubber, viscous liquid, large surface sample and pliable solids etc. Variable angle ATR is used for measurement of films, painting (coating) layers and gels etc.

- Easy installation and operation
- High light throughput
- Variable depth of IR penetration



IR Microscope

- Micro samples analysis, minimum sample size: 100pm (DTGS detector) and 20pm (MCT detector)
- Non-destructive sample analysis
- Translucent sample analysis
- Two measurement methods: transmission and reflection
- Easy sample preparation



Single Reflection ATR

It provides high throughput when measuring materials with high absorption, such as polymer, rubber, lacquer, fiber etc.

- High throughput
- Easy operation and high analytical efficiency
- ZnSe, Diamond, AMTIR, Ge and Si crystal plate can be selected according to application.



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Accessory for Determination of Hydroxyl in IR Quartz

- Fast, convenient and accurate measurement of Hydroxyl content in IR quartz
- Direct measurement to IR quartz tube, no need to cut samples
- Accuracy: £1x10⁻⁶ (£1ppm)

Accessory for Oxygen and Carbon in Silicon Crystal Determination

- Special silicon plate holder
- Automatic, fast and accurate measurement of oxygen and carbon in silicon crystal
- Lower detection limit: 1.0x10¹⁶ cm⁻³ (at room temperature)
- Silicon plate thickness: 0.4~4.0 mm

SiO₂ Powder Dust Monitoring Accessory

- Special SiO₂ powder dust monitoring software
- Fast and accurate measurement of SiO₂ powder dust

Component Testing Accessory

- Fast and accurate measurement of the response of such components as MCT, InSb and PbS etc.
- Curve, peak wavelength, stop wavelength and D* etc can be presented.

Optic Fiber testing Accessory

- Easy and accurate measurement of the loss rate of IR optic fiber, overcoming the difficulties for fiber testing, since they are very thin, with very small light-passing holes and uneasy to fix.
- Jewelry Inspection Accessory
- Accurate identification of jeweiries.

Universal Accessories

- Fixed liquid cells and demountable liquid cells
- Gas cells with different pathlength

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