



FTIR Spectrometer LIR-B10

Description :

FTIR Spectrometer LIR-B10 offers gold coated reflecting mirrors to cover maximum light throughput with detection sensitivity with multilayer Ge coated KBr beam splitter specification, aluminum based cast design layout structure, and high intensity, long lasting air cooled infrared source. Designed with 7800 cm^{-1} to 350 cm^{-1} spectral range with high S: N ratios of up to 20,000:1. This FTIR executes operations such as scanning, data manipulation, quantitation, reporting, saving, user administration, and more. Features advance FTIR software workstation, adjusted for all versions of windows operating system with specialized IR libraries, real-time device status analysis, modular platform strategy, FDA CFR 21 compliance auto software updating system, Sensitivity detector DLATGS. Equipped with Cube-corner Michelson interferometer, the highly sensitive optical system with collectively patented fixing mirror alignment tools.

Specifications :

Spectral Range	7800 cm^{-1} to 350 cm^{-1}
Resolution	0.85 cm^{-1}
Wave number precision	$\pm 0.01 \text{ cm}^{-1}$
Scanning speed	Microprocessor control, different scanning speed selectable
Signal to Noise ratio	20,000:1(RMS value 2100 $^{-1}$ to 2000 $^{-1}$)
Beam Splitter	Ge coated KBr
Infrared Source	High intensity, long lasting, air- cooled IR source
Detector	DLATGS
Data System	Compatible computer
Dimension	520 x 435 x 255 mm
Weight	24 kg
Power Supply	AC 220 V \pm 22 V, 50 Hz \pm 1 Hz
Interferometer	Cube-corner Michelson interferometer

Wave number Accuracy	$\pm 0.01 \text{ cm}^{-1}$
Communication	Ethernet interface
Status Diagnose	Power on self-check
Certification	FDA CFR 21 Compliance

Features :

Innovative DLATGS software detector for stable response and powerful software workstation with high sensitivity, reproducibility and stability of IR spectral

High intensity, long lasting and air cooled IR source

Cube-corner Michelson interferometer

Standard Ethernet interface communication system and optional wireless WI-FI communication system

Numerous specific function software units and standard communication system of Ethernet interface for transferring data with temperature range of 10°C to 30°C and humidity $\approx 70\%$

Microprocessor control scanning speed

Gold coated reflecting mirrors with Ge coated KBr beam splitter

Designed with anti-electromagnetic interference property, and electromagnetic compatibility protect from radiation

External isolated IR source module and large space heat dissipation chamber design provides higher thermal stability and stable optical interference

Digital filter and network communication technology and 24-bit AD converter technology

Applications :

FTIR Spectrometer has wide applications in the field of science research examination, quality control production, testing and detection in various field.



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