

**LABdex**



# FTIR Spectrometer LX10IR

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## Description:

It is designed with 7800 cm<sup>-1</sup> to 350 cm<sup>-1</sup> spectral range with high S: N ratios of up to 20,000:1 and with anti-electromagnetic interference property, electromagnetic compatibility for protection from radiation. Equipped with Cube-corner Michelson interferometer, the highly sensitive optical system with collectively patented fixing mirror alignment tools. Standard Ethernet interface communication system and optional wireless WI-FI communication system.

## Specifications :

Spectral Range	7800 cm <sup>-1</sup> to 350 cm <sup>-1</sup>
Resolution	0.85 cm <sup>-1</sup>
Wave number precision	± 0.01 cm <sup>-1</sup>
Scanning speed	Microprocessor control, different scanning speed selectable
Signal to Noise ratio	20,000:1( RMS value 2100 <sup>-1</sup> to 2000 <sup>-1</sup> )
Beam Splitter	Ge coated KBr
Infrared Source	High intensity, long lasting, air-cooled IR source
Detector	DLATGS
Data System	Compatible computer
Interferometer	Cube-corner Michelson interferometer
Wave number Accuracy	± 0.01 cm <sup>-1</sup>

Communication	Ethernet interface
Status Diagnose	Power on self-check
Power Supply	AC 220 V $\pm$ 22 V, 50 Hz $\pm$ 1 Hz
Dimension	520 $\times$ 435 $\times$ 255 mm
Weight	24 kg

## Features :

- Microprocessor control scanning speed
- Offers gold coated reflecting mirrors to cover maximum light
- External isolated IR source module and large space heat dissipation chamber
- Digital filter and network communication technology
- Cube-corner Michelson interferometer
- Innovative DLATGS software detector for stable response

## Applications :

Used in in the field of science research, quality control production, testing and detection in various field such as compounded plastics, blends, fillers, paints, rubbers etc.

## Standard accessories :

Transmission sample holder

## Optional accessories :

Gas cell

Liquid cell

Defused / spectral reflection

Single / Multiple reflection ATR, etc.



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