

# InfraLUM FT-08



FT mid-IR spectrometer



InfraLUM FT-08 is a conventional Fourier Transform infrared (FTIR) spectrometer designed for measurement of transmission, attenuated total reflectance, and diffuse reflectance spectra of liquid, solid, and gaseous micro and macro samples.

## FEATURES AND ADVANTAGES

- High signal-to-noise ratio
- High resolution
- Patented Double Cat's Eye misalignment-proof interferometer
- Hermetically sealed optical compartment with the automated moisture monitoring system
- Built-in smart total self-diagnostics system
- Fully compatible PIKE Technologies® and Specac® accessories
- Dedicated SpectraLUM software compliant with FDA 21 CFR part 11
- IQ/OQ protocols

## APPLICATIONS

- Lubricants and oil products testing EN 14078:2014 (FAME), ASTM D7371-14, ASTM D7806-20, ASTM D7412-21, ASTM D7844-21, ASTM D8290-20, ASTM D7889-20, DIN EN 238:2004, ASTM D6277-07(2017) & many others
- Polymer materials testing ASTM D3124-98(2019), ASTM D3594-93(2013), ASTM D4660-18, ASTM D5576-00(2021)e1, ASTM D5594-18a & many others
- Pharmaceutical industry & Pharmacopoeia
- Environmental monitoring ASTM D7066-04(2017), ASTM D7948-20
- Semiconductor materials testing
- Paints and coatings analysis
- Forensic science
- Scientific research

## ACCESSORIES FOR FTIR INFRALUM FT-08

- Liquid cells and microcells
- Gas cells
- Hydraulic press with press-form
- ATR, HATR, diffuse reflectance, specular reflectance accessories & others

## SPECTRA DATABASES

Lumex Instruments provides a software interface for a broad range of FTIR and ATR-FTIR spectra databases developed by S.T. Japan-Europe GmbH in cooperation with the Aldrich Chemical Company and the National Institute of Advanced Industrial Research in Japan.

## SPECIFICATIONS

Spectral range	8000–350 cm <sup>-1</sup> (KBr optics) 8000–500 cm <sup>-1</sup> (ZnSe optics)
RMS signal-to-noise ratio	> 60000 (4 cm <sup>-1</sup> , 1 min)
Variable resolution	0.5, 1, 2, 4, 8, 16 cm <sup>-1</sup>
Wavenumber accuracy	±0.05 cm <sup>-1</sup>
Scanning speed	0.8 s/scan at 16 cm <sup>-1</sup> resolution
Detector	High resolution DLATGS
Beam splitter	Ge-coated KBr (or ZnSe) in a hermetically sealed desiccated casing
Interferometer	Vibration- and misalignment-proof patented Double Cat's Eye Interferometer
Radiation source	Ceramic IR radiation source
Power supply	110/220 V, 50/60 Hz, 65 W
Dimensions / weight	580×550×340 mm / 32 kg

## SERVICES

Installation and commissioning of Lumex Instruments' FTIR spectrometers can be carried out at a customer site by our service engineers or by certified distributor service engineers.

## WARRANTY

InfraLUM FT-08 spectrometer is covered by a full 1-year warranty.



Find your local Lumex Instruments distributor:  
[www.lumexinstruments.com](http://www.lumexinstruments.com) | [sales@lumexinstruments.com](mailto:sales@lumexinstruments.com)