

# 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

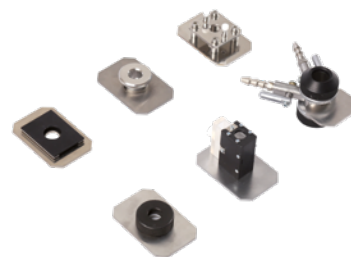
- High signal-to-noise ratio
- High resolution
- Automatic locking system
- Patented Double Cat's Eye misalignment-proof interferometer
- Hermetically sealed optical compartment with the automated moisture monitoring system
- Built-in smart total self-diagnostics system
- Antivibration platform available
- Fully compatible Specac® and PIKE Technologies® 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)<br>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)