

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

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|---------------------------|---|
| Spectral range | 8000–350 cm ⁻¹ (KBr optics) 8000–500 cm ⁻¹ (ZnSe optics) |
| RMS signal-to-noise ratio | > 60000 (4 cm ⁻¹ , 1 min) |
| Variable resolution | 0.5, 1, 2, 4, 8, 16 cm ⁻¹ |
| Wavenumber accuracy | ±0.05 cm ⁻¹ |
| Scanning speed | 0.8 s/scan at 16 cm ⁻¹ 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:
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