



# MID-IR FT SPECTROMETER

## InfraLUM FT-02



### METHOD

Mid-IR Fourier spectroscopy

### PRINCIPLE OF OPERATION

Is based on the measurement of IR absorption spectra using Fourier transform technique.

### FEATURES AND BENEFITS

- High throughput
- High photometric accuracy
- High selectivity
- Simultaneous analysis of several components
- Variability of accessories
- Misalignment-proof interferometer



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**APPLICATION EXAMPLES**

Chemical industry	Identification of unknown chemical substances Determination of raw material purity Determination of fractional composition Functional and structural-functional analysis Determination of gas composition Testing the composition of polymer films and coatings
Ecological and sanitary monitoring	Ecological monitoring of the atmospheric air Detection of the presence of ozone-destroying substances Monitoring industrial emissions and the air in production areas Measuring the content of petroleum hydrocarbons in water Identification of a source of petroleum hydrocarbon pollution in water
Forensic investigations	Identification of impurities and trace amounts of substances
Pharmaceutical industry	Determination of the authenticity of medicine preparations using IR reference standards Quality control of medicine preparations using IR reference standards Quality assurance of organic raw materials
Oil and gas industry	Determination of the composition of natural gas and gas industry products Identification of unknown chemical substances Determination of crude oil and gas purity Determination of fractional composition Functional and structural-functional analysis Determination of aromatic hydrocarbon content Determination of benzene in gasoline Determination of oil in liquid ammonia

**EQUIPMENT AND OPTIONS**

- InfraLUM FT-02 mid-IR FT spectrometer
- SpectraLUM software package
- Set of measuring cells (on customer request)
- Parallel port expander

**SPECIFICATIONS**

Spectral range	6500 – 350 cm <sup>-1</sup>
Resolution	0.5, 1, 2, 4, 8, 16 cm <sup>-1</sup>
Spectrum measuring time	60 sec
Power requirements	~110/220 V, 50/60 Hz
Power consumption	60 W
Dimensions	580x515x295 mm
Weight	37 kg



**WARRANTY**

All LUMEX equipment is covered by a twelve month warranty.

**SERVICES**

Installation and commissioning of LUMEX instruments can be carried out at a customer's site by our service engineers. Personnel training specific to the customer needs can also be provided. Free replacement of parts under warranty and repair of the instruments are provided within the warranty period.

The information and specifications in this publication are subject to change without notice.

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