

IRSpirit



IRSpirit: compactness and ease of use

The size of the new IR-Fourier spectrometer IRSpirit is smaller than a sheet of A4 paper. At the same time, the width of the cuvette compartment is the same as in the higher class models IRAffinity-15 and IRTracer-100. This ensures compatibility with many existing Shimadzu accessories (eg gas cuvettes or diffuse reflection attachment) and third-party accessories.

The IRSpirit series is represented by two models:

IRSpirit-T— equipped with a detector DLaTGS, designed for highly sensitive analysis. Demonstrates the highest signal-to-noise ratio of 30,000:1 (for KWh) in its class of compact devices.

IRSpirit-L— equipped with a detector LiTaO₃, ideal for routine measurements in quality control laboratories.



Reliability and efficiency

IR-Fourier spectrometers IRSpirit can be operated in conditions of high humidity, thanks to the possibility of optional use of windows with KRS-5.

IRPilot software

The specialized software includes 23 preset methods included in the following software modules: substance identification, impurity analysis, quantitative analysis and film thickness calculation. To start the analysis, it is enough to select the software module and the type of accessory, there is no need to pre-set the parameters.

Fields of application



	Impurity analysis	Incoming raw material control	Substance identification	Quantitative analysis	Identification analysis
Pharmaceuticals and Life Sciences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Chemical and petrochemical industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Scientific research			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ecology	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>



Technical characteristics

Interferometer	Michelson type with 30° incidence angle, equipped with advanced dynamic alignment system KVG plate with germanium coating
Beam splitter	High-temperature ceramic
Emission source	Dimensions, weight
Detector	IRSpirit-T: thermally stabilized DLATGS detector IRSpirit-L: LiTaO ₃ detector
Spectral range	7800-350 cm ⁻¹
Expansion	0.9; 2; 4; 8; 16 cm ⁻¹
Signal/noise ratio	IRSpirit-T: 30000:1 (KBr); 23000:1 (KRS-5) IRSpirit-L: 13000:1 (KBr); 10000:1 (KRS-5)
Dimensions, weight	390 (W) x 250 (D) x 210 (H) mm; 8.5 kg



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