



IA30 FTIR SPECTROMETER

Precise and reliable FTIR spectroscopy for molecular identification and analysis.

The IA30 delivers rapid molecular identification in a compact footprint. Built around a robust anti-vibration platform, it minimises environmental interference to provide accurate, repeatable results. With high spectral resolution and sensitivity, the IA30 is suited to both routine quality control and advanced material characterisation.

At the heart of the IA30 is the powerful and intuitive Miracle™ software, designed to simplify FTIR analysis from setup through to reporting. Miracle™ streamlines workflows with guided measurements, real-time visualisation, and flexible data processing tools – making advanced analysis accessible to users at any level. Combined with hermetically sealed optics, integrated humidity control, and a maintenance-free design, the IA30 offers dependable performance and seamless operation for demanding lab environments.



KEY FEATURES

- > Outstanding Performance: High sensitivity and spectral resolution
- > User-friendly: Simple to operate and suitable for all user levels, from beginner to advanced
- > Maintenance Free: No maintenance required with moisture control technology
- > Customisable: Range of accessories for different sample types and measurements
- > Miracle™ Software: Powerful and intuitive software for FTIR analysis



SPECIFICATIONS

IA30 FTIR Spectrometer

Working Environment and Requirements

Working Temp	10 - 35°C Ambient temperature
Power Supply	Universal mains input 100-240 VAC, 47-63 Hz

Main Specifications (Standard Specification)

Spectral Range	8000 - 350 cm ⁻¹
Sensitivity	SNR ≥ 20,000:1
Resolution	0.5 cm ⁻¹ , 1 cm ⁻¹ , 2 cm ⁻¹ , 4 cm ⁻¹ , 8 cm ⁻¹ , 16 cm ⁻¹ , 32 cm ⁻¹
Accuracy	0.5 cm ⁻¹
Source	High-intensity ceramic source
Detector	DLaTGS
Beamsplitter	Germanium coated KBr
Hygroscopic Integrity	Integrated desiccants, electronic dry-membrane, embedded LCD and software hygrometers for maintenance-free operation
Windows	KBr window exchangeable by user

Sample Accessories

Transmission Sample Holder	Compatible with films and cuvettes
Attenuated Total Reflectance (ATR)	Basic and advanced ATR models available with a choice of crystal (diamond, Ge, ZnSe)

Other

Dimension	660 mm x 540 mm x 300 mm
Weight	37 kg

Software

Miracle	Powerful and intuitive software for data acquisition, analysis and presentation, full control of all interferometer, amplifier, temperature and humidity monitoring
Measurement Types	Transmission, Absorption, Reflection, Kubelka-Munk, FT-PL
Acquisition Modes	Live signal monitoring, single scan (including user-defined methods), kinetic series

Scope of delivery

Box includes	1 x IA30 Unit 1 x Operation Manual
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After Sales Service

Warranty	Guaranteed (under normal maintenance) for one year from the date of delivery
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EDINBURGH ANALYTICAL

2 Bain Square, Livingston, EH54 7DQ, United Kingdom

Tel: +44 (0)1506 425 300

Fax: +44 (0)1506 425 320

sales@edinst.com

Registered in England and Wales No: 962331 VAT No:GB 271 7379 37

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STG04 / 05.2025



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