



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

After Sales Service

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

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STG04 / 05.2025



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