



FE30 FLUORESCENCE SPECTROMETER

High-sensitivity fluorescence measurements for advanced research and analysis.

Unlock more from your fluorescence measurements with the FE30 – a powerful benchtop spectrometer built for demanding applications. With an extended wavelength range, ultra-fast scanning, and optimised electronics, it delivers high-quality data out to 900 nm.

Spectracle® software makes advanced measurements feel effortless. Its intuitive Workspace Manager streamlines measurement workflows, helping you get the most from your instrument. Whether in research or industry, the FE30 brings reliable, high-performance fluorescence analysis to your lab.



KEY FEATURES

- > High sensitivity with water Raman S/N >15,000:1
- > Wide wavelength range 200 - 900 nm
- > Fast scanning rate 60,000 nm/min for rapid acquisition
- > Optional laser source for advanced characterisation



SPECIFICATIONS

FE30 Fluorescence Spectrometer

Working Environment and Requirements

Working Temp 10 - 35°C Ambient temperature

Power Supply 100-240 V, 50-60 Hz

Main Specifications

Excitation source High Intensity 150 W Continuous Xenon Lamp

Wavelength Range
Excitation: 200 – 900 nm
Emission: 200 – 900 nm

Spectral Bandwidth
Excitation: 1, 2.5, 5, 10, 20 nm
Emission: 1, 2.5, 5, 10, 20 nm

Wavelength Accuracy ± 2.0 nm

Wavelength Repeatability ± 1.0 nm

Sensitivity Signal-to-Noise level using Raman peak of water, excitation 350 nm is 750:1 measuring RMS noise at the Raman peak (PK). 15,000:1 measuring RMS noise at the background (BG)

Wavelength scan speed Max 60,000 nm/min; Selectable from 30, 60, 240, 1,200, 2,400, 12,000, 60,000 nm/min

Scan Interval 0.1 – 10.0 nm

Detector voltage Continuously adjustable negative high voltage 200 – 1,000 V

Fluorescence Intensity Drift <1.5% Ex: 350 nm, Em: 450 nm (within 10 min)

Fluorescence Value Range 0 to 50,000

Detector Photomultiplier tube

Software Spectracle PC-controlled software

Sample Chamber Dimension 247 (W) \times 215 (D) \times 172 (H) mm

Instrument Dimension 660 (W) \times 600 (D) \times 250 (H) mm

Weight 50 kg

Software Functions

Wavelength Scan Excitation, Emission, Synchronous

Kinetics Fixed wavelength time scan

Quantitative Quantitative analysis, calibration curve (1-2 order), sample blank measurement, sample measurement, standard curve coefficient input

ExEm Map 2D, 3D, Contour map view

Spectra Processing Normalise, smooth, differentiate, integrate, calculate, peak

Validation Function S/N ratio measurement, fluorescence drift measurement

Report output Wavelength scan and quantitative analysis report output, export to Excel™

Scope of delivery

Box includes
1 \times FE30 Unit
1 \times Operation Manual
1 \times Quartz Cuvette

After Sales Service

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

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