



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) x 215 (D) x 172 (H) mm
Instrument Dimension	660 (W) x 600 (D) x 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 x FE30 Unit 1 x Operation Manual 1 x Quartz Cuvette
After Sales Service	
Warranty	Guaranteed (under normal maintenance) for one year from the date of delivery

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