



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 >20,000:1
- > 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 ± 1.5 nm

Wavelength Repeatability ± 1.0 nm

Sensitivity RMS-PK = 1,000:1, RMS-BG = 20,000:1*

Wavelength Scan Speed Max 60,000 nm/min; Selectable from 30, 60, 240, 600, 1200, 2400, 8000, 12,000, 30,000, 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: 450 nm, Em: 450 nm (within 10 min)

Fluorescence Value Range 0 to 50,000

Detector Photomultiplier tube R928

Software Spectracle® PC-controlled software

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

Instrument Dimension 660 (W) × 600 (D) × 250 (H) mm

Weight 55 kg

Software Functions

Wavelength Scan Excitation, Emission, Synchronous

Kinetics Fixed wavelength time scan

Quantitation Quantitative analysis, calibration curve (1st and 2nd order), sample blank measurement, sample measurement, standard curve coefficient input

ExEm Map 2D, 3D, heatmap view

Applications Anisotropy

Spectral Processing Normalise, smooth, differentiate, integrate, calculate, peak analysis

Validation Function S/N ratio measurement, wavelength check

Application Report Output Anisotropy wavelength scan and quantitative analysis PDF report output, export to Excel™

Scope of Delivery

Box Includes
1 x FE30 Unit
1 x Installation and Quick Guide
1 x Quartz Cuvette
1 x Diffuser
1 x USB Cable

After Sales Service

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

*Standard water Raman measurement conditions: excitation wavelength = 350 nm, excitation and emission bandwidth = 10 nm, emission range = 360 – 450 nm, read interval = 1 nm, scan speed = 60 nm/min. Calculation based on the root mean square (RMS) method.

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