



FLUORESCENCE SPECTROPHOTOMETER BEQ-4001

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Horizontal slit optical design, with excellent luminous detection efficiency and high signal to noise ratio. Water Raman peak SNR is better than 350: 1 (P-P) or 1500: 1 (RMS). The minimum sample volume is 0.5mL when using a standard 10mm square sample cell.

Wavelength scanning speed up to 60000 nm / min.

Bandwidth 1/2/5/10/20nm adjustable.

Fluorescence Quantum Yield accessory available.

The software offers fluorescence 3D scanning, equal-wavelength difference synchronous scanning, equal wave number difference (constant energy difference) synchronous scanning functions. (synchronous scanning function require pro version software)

Multi accessories available.

SPECIFICATIONS

Model	BEQ-4001
Wavelength Range	200-900nm
Spectral Bandwidth	
Wavelength Accuracy	±0.4 nm
Excitation Source	150 W Xenon Lamp (Hamamatsu)
Excitation Wavelength	200-900 nm
Emission Wavelength	200-900 nm
Excitation Slit	1 nm / 2 nm / 5 nm / 10 nm / 20 nm
Emission Slit	1 nm / 2 nm / 5 nm / 10 nm / 20 nm
Wavelength Repeatability	≤0.2 nm
Signal-to-Noise Ratio	S/N ≥350 (P-P); S/N ≥1500 (RMS); S/N ≥15000 (RMS BG)
Limit	≤5 x 10 ⁻¹¹ g/mL (Quinine Sulfate Solution)
Linearity	γ ≥0.995
Peak Repeatability	≤1.5%
Wavelength Scan Speed	Multi-speed level, maximum 60,000 nm/min
Minimum Sample Size	0.5 mL (using a standard 10 mm square sample cell)
Octave Filter	Built-in octave filter
Photometric Quantity Range	-9999 to 9999
Response Time	0.02 / 0.1 / 0.5 / 1 / 2 / 4 / 8 s; auto-adjust
Data Transportation	USB 2.0
Power	200 W
Power Source	AC 220 V / 50 Hz; 110 V / 60 Hz
Instrument Dimension	610 x 460 x 365 mm
Weight	Net Weight: 21 kg; Gross Weight: 26 kg
Alt Name	Fluorescence Spectrophotometer

FEATURES

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Multi accessories available.

Using Hamamatsu's high quality Xenon light source and photoelectric multiplier tube detectors and instruments to provide sufficient light intensity signal and the detection sensitivity.

Built-in frequency filter. Built-in optical gate, designed for unstable sample.



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