



SCANNING FLUORESCENCE SPECTROPHOTOMETER BKG-1901

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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 15000: 1 (RMS BG). 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	BKG-1901
Wavelength Range	200-900nm
Spectral Bandwidth	
Wavelength Accuracy	±0.4nm
Excitation Source	150 W Xenon Lamp (Hamamatsu)
Excitation Wavelength	200-900 nm
Emission Wavelength	200-900 nm
Excitation Slit	1 / 2 / 5 / 10 / 20 nm
Emission Slit	1 / 2 / 5 / 10 / 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)
Filters	Built-in long-pass filters, Ex/Em 270 / 420 / 510 / 580 nm
Photometric Quantity Range	-9999.99 to 99999.9
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 100-240V, 50/60 Hz
Instrument Dimensions	610 x 460 x 365 mm
Net Weight	24 kg
Gross Weight	50 kg
Alt Name	Fluorescence Spectrophotometer

ACCESSORIES FOR PURCHASE

No	Name	Function
1	Solid sample holder	for film and powder sample
2	Peltier temperature control	
3	Fluorescence Quantum Yield accessory	

4	Auto Polarization Filter	
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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 filters at 270/420/510/580nm in both excitation and emission monochromator. Built-in optical gate, designed for unstable samples.



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