



SCANNING FLUORESCENCE SPECTROPHOTOMETER BKG-1601

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High sensitivity: based on high efficiency optical design and weak signal detection technology, the water Raman peak signal to noise ratio can be greater than 150 (P - P).

High scanning speed: the high speed digital signal processing unit provides the world's fastest scanning speed at 48000nm/min. Only about 1 second to get classic fluorescence spectra, 1 minute to get high quality of three-dimensional fluorescence spectra.

Wide Spectral measurement range: using a double monochromator design, excitation and emission wavelength range covering 200 nm to 900 nm, meet the needs of most fluorescence analysis.

Excitation light path monitoring system: instrument is equipped with an excitation light dual beam ratio monitoring system to ensure the fluorescence signal is

SPECIFICATIONS

Model	BKG-1601
Wavelength Range	200-900nm
Spectral Bandwidth	
Wavelength Accuracy	±1nm
Excitation Source	150W Xenon lamp (Hamamatsu)
Excitation Wavelength	200-900 nm
Emission Wavelength	200-900 nm
Excitation Slit	10 nm
Emission Slit	10 nm
Wavelength Repeatability	0.5 nm
Signal-to-Noise Ratio	Raman peak of water (P-P): S/N ≥150 (10 nm slit); S/N ≥800 (RMS)
Detection Limit	≤1 x 10 ⁻¹⁰ g/mL (Quinine Sulfate Solution)
Linearity	γ ≥0.995
Peak Repeatability	≤1.5%
Stability (10 min) - Zero Drift	±0.3
Stability (10 min) - Value Limit	±1.5%
Wavelength Scan Speed	Multi-speed levels, maximum 48,000 nm/min
Photometric Quantity Range	0.00-10000.00
Data Transportation	USB 2.0
Power	200W
Power Source	AC 220V/50Hz; 110V/60Hz
Instrument Dimensions	380 x 445 x 310 mm
Net Weight	12 kg
Gross Weight	14 kg
Alt Name	Fluorescence Spectrophotometer

ACCESSORIES FOR PURCHASE

No	Name	Functions
1	10 mm Cell Holder Adapter	For conventional liquid fluorescence samples
2	Peltier Temperature Control Holder	Controls sample temperature from 15-45°C
3	Double Frequency Filters	Removes interference from frequency doubling
4	Membrane Sample Holder	For membrane samples

5	Powder Sample Holder	For powder samples
6	Auto Polarization Filter	Adjusts polarized light
7	Multi-function Adapter	Base for different holders

FEATURES

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Wide Spectral measurement range: using a double monochromator design, excitation and emission wavelength range covering 200 nm to 900 nm, meet the needs of most fluorescence analysis.

Excitation light path monitoring system: instrument is equipped with an excitation light dual beam ratio monitoring system to ensure the fluorescence signal is high and stable.

High quality assurance: 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 optical gate: Built-in optical gate, designed for unstable sample.



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