BioLAB

PRODUCT CATALOG

SCANNING FLUORESCENCE SPECTROPHOTOMETER BKG-1801

CE ISO9001 CERTIFIED

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FLUORESCENCE SPECTROPHOTOMETER BKG-1801

FLUORESCENCE SPECTROPHOTOMETER

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 200 (P - P) to the leading domestic and international advanced level.
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 excitation light dual beam ratio monitoring system to ensure the fluorescence signal high a

SPECIFICATIONS

Model	BKG-1801
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 ≥ 200 (10 nm slit) (P-P)
Limit	≤ 5 x 10^{-11} g/mL (Quinine Sulfate Solution)
Linearity	$\gamma \geq 0.995$
Peak Repeatability	≤ 1.5%
Stability (10 min)	Zero Drift: ±0.3
Wavelength Scan Speed	Multi-speed level, maximum 48,000 nm/min
Photometric Quantity Range	0.00-10,000.00
Data Transportation	USB 2.0
Power	200 W
Power Source	AC 100-240V, 50/60 Hz
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	Conventional liquid fluorescence sample
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 the polarization light
7	Multi-function Adapter	Base for different holders

FEATURES

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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 excitation light dual beam ratio monitoring system to ensure the fluorescence signal 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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