



SCANNING FLUORESCENCE SPECTROPHOTOMETER BKG-1301

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The emission monochromator adopts 1200 line diffraction grating. Its large aperture and non-spherical reflecting mirrors produces extra high sensitivity. EX light uses LED, matched with the central wavelength of 365nm. The LED can be replaced by customers, carry on the maintenance expediently & can satisfy more choices and demand. LED is a cold-light source with longevity, lower background & reliability, preventing thermo-pollution. Automatic zero adjustment and automatic background subtraction; Eight stage sensitivity adjustment; Real time fluorescence reading display and concentration print out, Extra wide dynamic range of fluorescence reading, accurate measurement of minute changes in samples. RS-232C serial port interface attached, after option Data Processing Software Package it is convenient to store record & transmit data & draw up a standard oper

SPECIFICATIONS

Model	BKG-1301
Wavelength Range	360-650nm (C-T diffraction grating)
Spectral Bandwidth	12nm
Wavelength Accuracy	±2nm
Light Source	LED
Wavelength Repeatability	≤1 nm
Sensitivity	1 x 10 ⁻⁹ g/mL
Sensitivity Test Condition	Standard aqueous solution of quinine sulfate, 12 nm bandwidth
Linearity Deviation	≤ ±3.0%
Power Supply	220 V ±22 V, 50 Hz ±1 Hz
Interface	RS232 serial port
Printer	Serial printer / Jet printer (for PC)
Data Processing	Selectable data processing software package
Dimension LWH	450x420x280(mm)
Weight(Kg)	7(N) 8(G)
Display Mode	4 digits LED
Alt Name	Fluorescence Spectrophotometer

ACCESSORIES FOR PURCHASE

No	Name	Optical Length
1	Glass fluorescence cuvette	10mm
2	LED light source - 255/265/280/310/325/335/345/350nm	
3	Data processing software package (pack, for PC)	
4	Fuses(1A/5A)	
5	RS-232C serial port cable	

FEATURES

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Automatic zero adjustment and automatic background subtraction; Eight stage sensitivity adjustment; Real time fluorescence reading display and concentration print out, Extra wide dynamic range of fluorescence reading, accurate measurement of minute changes in samples.

RS-232C serial port interface attached, after option Data Processing Software Package it is convenient to store record & transmit data & draw up a standard operating curve.

Quality fine, less weight & measure, test simply, particularly suitable for Education & Lab.

APPLICATIONS

Fluorescence analysis is a highly sensitive and highly selective sophisticated analytical method. This method can provide information including excitation and emission spectrum, emission light intensity and measurement of life of emission light and polarization fluorescence etc. This method can provide a wide lineal range of working curves. It has become an important analytical method in the region of trace analysis. This method has been used in:

Medical science and clinical analysis: Clinical analysis of biological specimens.

Pharmaceutical science and pharmacology: Analysis of natural pharmaceutical products; Quality control of pharmaceuticals and research of pharmaceutical metabolites.

Biochemistry: Analysis of minute quantities of substances in the biological body.

Food industry: Analysis of minute quantity of constituents in food.

Pollution analysis: Atmospheric pollution, environmental testing and food contamination analysis.

Organic and inorganic chemistry: Used in the trace analysis in case of those substances cannot be determined by absorption spectrophotometry.



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