

Fluorescence Spectrophotometer



Applications:

A fluorescence spectrophotometer qualitatively and quantitatively analyzes substances by measuring fluorescence intensity. It is widely used in biomedicine, environmental monitoring, pharmaceutical analysis, and food safety.

Features for BK-F96PRO:

- * Provides wavelength scanning, time scanning(kinetics analysis) and quantity analysis functions.
- * 365nm exciting wavelength, Raman peak of water in 1cm quartz fluorescence cuvette S/N≥150.
- * 17 stages gain adjustment could be chosen for emission spectrum scanning, including high speed low S/N scanning and precise scanning.
- * Support stand-alone mode and PC mode. Under stand-alone mode, instrument's computer system offer the fluorescence intensity measurement, concentration direct reading, auto 0 adjustment, auto background subtraction and etc. Under PC mode, we could use quality and quantity software to control data acquisition and analysis through USB2.0 interface.

Features for BK-F93 :

- * 1200 line diffraction grating emission monochromator .
- * LED is a cold-light source with longevity, lower background & reliability, prevent from thermo-pollution.
- * Automatic zero adjustment and automatic background subtraction.
- * Eight stage sensitivity adjustment, real time fluorescence value display and concentration print out. Extra wide dynamic range of fluorescence reading, accurate measurement of minute changes in samples.

Technical Parameters:

Model	BK-F96PRO	BK-F93
Light Source	Hamamatsu 150W Xenon lamp	4 digits LED
Excitation Filter	Interference optical filter a) Standard set is equipped with an interference optical filter of central wavelength at 365nm and 10nm bandwidth b) An optional interference optical filter of 25mm diameter of fixed wavelength select from range 250~850nm can be provided on users demand	LED options a) Standard set includes LED at wavelength 365nm b) The A set includes LED wavelength at 365nm, 376nm, 392nm, 405nm c) Customizable wavelength from 360nm to 600nm
Emission Monochromator	C-T diffraction grating (Em 200~900nm, bandwidth 10nm)	360~650nm (C-T diffraction grating)
Wavelength Accuracy	±1nm	±2nm
Wavelength Repeatability	≤0.5nm	≤1nm
Sensitivity	Raman peak of water in 1cm quartz fluorescence cuvette with S/N≥150	Raman peak of water in 1cm quartz fluorescence cuvette with S/N≥90
Linear Measurement(r)	≥0.995	
Stability	Better than 1.5%/10min	Better than 3%/10min
Limit	≤1×10 ⁻¹⁰ g/ml(Quinine Sulfate Solution)	≤1×10 ⁻⁹ g/ml(Quinine Sulfate Solution)
Response Time	(0.1~4)s, 6 stages adjustable	(0.1~4)s
Fluorescence Display Value	0.00~9999.00	
Standard Accessories	365nm filter(Pre-assembled), 1 pc F96PRO software package, 1 pc USB interface, 1 pc Quartz fluorescence sample cell10mm, 1 pair	RS232 serial port, Glass fluorescence cuvette 10mm 1 pair
Optional Accessories	Interference optical filter a) Standard set is equipped with an interference optical filter of central wavelength at 365nm and 10nm bandwidth b) An optional interference optical filter of 25mm diameter of fixed wavelength select from range 250~850nm can be provided on users demand Quartz fluorescence sample cell 10mm, Multi-function fluorescent sample rack holder, Membrane sample rack, Powder sample rack, Sample cell jacket, Octave Filters 200uL microcentrifuge tube accessory Upconversion fluorescent accessory	Data processing software package (pack, for PC) Fuses(2A) Quartz fluorescence cuvette10mm Optional LED A Set includes: 365nm、376nm、392nm、405nm
Power Supply	AC 110/220V, 50/60Hz	
Package Size(W*D*H)	530*500*390mm	450*420*310mm
Gross Weight	13kg	9kg