

# Fluorescence Spectrophotometer

## Model: DW-F93/F93A

DW-F93/ F93A fluorescence spectrophotometer adopts a cold light source and a replaceable interference filter system, and the receiver adopts a high-performance photomultiplier tube. It has high detection sensitivity, high selectivity, and a user-friendly functional operation interface. Fast and high-precision fluorescence intensity measurement, a variety of excitation light source components can meet the testing needs of most users, cost-effective, especially suitable for university laboratory teaching demonstrations and student experiments, it is the first choice for upgrading of the majority of user units in higher education systems.

#### Features

1200 line diffraction grating emission monochromator. Its large aperture and non-spherical reflecting mirrors produces extra high sensitivity.

EX light use LED, match with the central wavelength of 365<sub>niTk</sub> 420<sub>niTu</sub> 475mru 525nm narrow banding-ultra low back grounding precision fdters to consist 4 set of EX wavelength replacing system. Carry on the maintenance expediently & can satisfy more choices and demand.

The central wavelength of 365<sub>nnis</sub> 420nms 475nms 525nm narrow banding-ultra low back grounding precision filters with low fluorescence background. Its performance is better than glass filter.

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 reading display and concentration print out, Extra wide dynamic range of fluorescence reading, accurate measurement of minute changes in samples.

Quality fine, less weight & measure, test simply, particularly suitable for education & laboratory.





## Parameters

Light source	LED F93 STANDARD SET:365NM; F93A SET: 365NM,376NM,392NM,405NM
Optical system	C-T monochromater
EX wavelength	Select from 360nm~650nm (LED lamps, like 400nms 500nm)
Exciting optical filters	Interference optical filter (lOnm bandwidth)
Central wavelength:	365nm
Optional central wavelength	365 <sub>nnK</sub> 405 <sub>nnK</sub> 470nms 515nm (F93A) The wavelength of exciting optical filter can be selected within 360-600nm
Emission monochromator	360-650nm (C-T diffraction grating)
Wavelength accuracy	±2nm
Wavelength repeatability	≤1nm
Bandwidth	12nm
Limit	≤1x10-9 (Quinine Sulfate Standard Solution)
Sensitivity	1x10-9 g/ml (Standard aqua of the sulfuric acid Quinine, 12nm bandwidth)
Linearity	≥0.995
Variation of power source	220V±22V 50Hz ±1Hz
Interface	RS232 serial port
Printer	Serial printer/Jet printer (for PC)

#### Standard accessories

Power cord	1 pc
Fuse (1A)	2 pcs
Fuse (5A)	2 pcs
Quartz fluorescence cuvette 10mm	2 pcs

### Optional accessories

######################################	Cuvette, special for high concentration samples
	360~650nm interference optical filter(p25mm)
	e.g.: F93A: 365 <sub>nnK</sub> 405nms 470 <sub>nim</sub> 515nm
	Quartz fluorescence cuvettelOmm
	Data processing software
	Printer cable
	RS-232C serial port cable