Fluorescence Spectrophotometer
Model: DW-F96Pro

Fluorescence analysis is a high sensitive and high 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 curve. It has becoming an important analytical method in the region of trace analysis.

This method has been used in:

1.Medical science and clinical analysis Clinical analysis of biological specimen.

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

3.Biochemistry Analysis of minute quantity of substances in biological body.

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

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

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

Features

- Two operation modes could be chosen: fluorescence intensity and luminous intensity. Fluorescence scanning, kinetic determination and quantity analysis could be done under fluorescence intensity mode.
- High performance sensitivity simplifies the measurement of low detective sample: 365nm exciting wavelength, Raman peak of water S/N≥150.
- 10 stages gain adjustment could be chosen for emission spectrum scanning, including high speed low S/N scanning and precise scanning. Total spectrum scanning could be done in 1 second. With the intelligent pre scanning feature, unknown sample's spectrum information could be detected rapidly. Auto-omission of the influence of scattering peak and harmonic peaks, it ensure the best measurement parameters and locate the fluorescence emission peak.
- Support off-line mode and on-line mode. Under off-line mode, instrument's computer system offer the fluorescence intensity measurement, concentration direct reading, auto 0 adjustment, auto background subtraction and etc. Under on-line mode, we could use quality and quantity software to control data acquisition and analysis through USB2.0 interface.
- High stable and long life 150W xenon lamp and power source ensure high stable testing and wide range of spectrum. Provide optional PC qualitative and quantitative software package with expansible time scanning, wavelength scanning, graphic calculation and storage-access abilities.
- Optional accessories for different measurement, including single hole cell holder, fluorescence sample holder for different features, 200pl micro scale centrifuge tube, micro scale capillary sample holder, semi-auto sample introduction accessories, membrane sample accessories, powder sample accessories, jacket sample accessories and etc.

Parameters

C-T monochromater	C-T monochromater
Light source！	Hamamatsu 150W Xenon lamp
Exciting optical filters！	Interference optical filter

a)Standard set is equipped with an interference optical filter of central wavelength at 365nm and lOnm bandwidth

An optional interference optical filer of 25mm diameter of wavelength of 250-700 nm can be provided on users demand.

Emission monochromator！	C-T diffraction grating（Em 200-900nm，bandwidth lOnm）
Wavelength accuracy	±lnm
Wavelength repeatability	≤0.5nm
Bandwidth	lOnm
Sensitivity！	Raman peak of water in 1 cm quartz fluorescence cuvette with S/N≥150
Linear measurement(r)！	≥0.995
Stability:	better than 1.5%/10min
Response time:	(0.1-4)s 6 stages adjustable
Fluorescence display value:	0.00-600.00
Data transmission:	USB2.0
Power	220V±22V 50Hz±lHz 190W
Package Dimensions	380 x440 x240 mm 0.04M3
G.W.	14KG

Standard Accessories

365nm filter(Preassembled)	1 pc
F96PRO software package	1 set
Power cable	1 pc
USB cable	1 pc
Fuse（2A）	2 pcs
Fuse（5A）	2 pcs
Quartz fluorescence sample celllOmm	1 pair

Optional Accessories

200-700nm interference optical filter (φ25mm)
10mm quartz fluorescence cell
Printer cable
Dedicated serial interface printer