

# FS - 3098

## Fluorescence Spectrophotometer



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**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

## ►► Product Introduction

FS 3098 fluorescence spectrophotometer is a new generation of high-performance molecular luminescence analysis equipment. This product is designed for high performance, with high signal to noise ratio, ultra-high scanning speed, ultra-high resolution, ultra-high wavelength accuracy and a variety of accessories. This instrument easily meets the requirements in material research, drug analysis, biochemical and clinical testing, water quality control, food safety testing and other areas of qualitative and quantitative analysis and scientific research. Quantum yield accessory is available for FS 3098 fluorescence spectrophotometer.

## ►► Main Features

- Horizontal slit optical design, with excellent luminous detection efficiency and high signal to noise ratio. Water Raman peak SNR better than 350: 1 (P-P) or 18000: 1 (RMS BG). The minimum sample volume is 0.5mL when using a standard 10mm square sample cell.
- Wavelength scanning speed up to 60000 nm / min.
- Bandwidth 1/2/5/10/20nm adjustable.
- Fluorescence Quantum Yield accessory available.
- The software offers fluorescence 3D scanning, equal-wavelength difference synchronous scanning, equal wave number difference (constant energy difference) synchronous scanning functions.(synchronous scanning function require pro version software)
- Multi accessories available.
- 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 frequency filter. Built-in optical gate, designed for unstable sample.



## ►► Specification

Excitation Source	150W xenon lamp (Hamamatsu)
Excitation Wavelength	200nm~900nm
Emission Wavelength	200nm~900nm
Excitation Slit	1nm/2nm/5nm/10nm/20nm
Wavelength Accuracy	±0.4nm
Wavelength Repeatability	≤0.2nm
Signal-to-Noise Ratio Limit	S/N≥350(P-P) ; S/N≥1500(RMS); S/N≥18000(RMS BG)
Limit	≤5×10 <sup>-11</sup> g/ml (Quinine Sulfate Solution)
Linearity	γ≥0.995
Peak Repeatability	≤1.5%
Wavelength Scan Speed	Multi-speed Level, Maximum at 60000nm/min
Minimum sample size	0.5mL (Using a standard 10mm square sample cell)
Octave filter	Build in Octave filter
Photometric Quantity Range	-9999 ~ 9999
Response Time	0.02/0.1/0.5/1/2/4/8 s, Auto adjust
Data Transportation	USB2.0
Power	200W
Power Source	AC 220V/50Hz ; 110V/60Hz
Instrument Dimension	610×460×365 (mm)
Weight	Net Weight : 21kg Gross Weight : 26kg

## ►► Optional Accessories



Multi-function fluorescent sample rack holder: Base of other sample racks.



Membrane sample rack



Powder sample rack



Sample cell jacket



Upconversion fluorescent accessory



Fluorescence Quantum Yield accessory

## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



## About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

## Our Products & Technologies



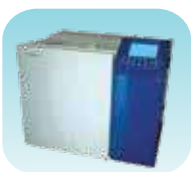
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Analyzer



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Total Organic  
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TOC  
Analyzer



Laser Particle  
Size Analyzer



Ion Chromatograph



Water purification  
system

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



**Analytical**  
**Foundation**

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [Info@analyticalfoundation.org](mailto:Info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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