

## Fluorescence Spectrophotometer

# ATF3800

### Features

- Horizontal slit optical design
- 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
- Multi accessories available.
- Using Hamamatsu' s high quality Xenon light source and photoelectric multiplier tube detectors
- Built-in frequency filter.
- Built-in optical gate

### Application

- Chemistry: Pharmaceutical Engineering
- Material Science
- Biological Science
- Life Science: Medical Analysis
- Teaching and Research

### Description

ATF3800 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 ATF3880 fluorescence spectrophotometer

- Agriculture and Food Safety
- Environmental Science
- Water Quality Analysis
- Chemical Engineering



## 1. Parameter

Model	ATF3800
Excitation Source	150W xenon lamp (Hamamatsu)
Excitation Wavelength	200nm~900nm
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Excitation Slit	1nm/2nm/5nm/10nm/20nm
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Wavelength Accuracy	±0.4nm
Wavelength Repeatability	≤0.2nm
SNR	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

## 2. 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**