

## Fluorescence Spectrophotometer **ATF1970**

### Features

- High sensitivity
- High scanning speed
- Wide Spectral measurement range
- Excitation light path monitoring system
- High quality assurance
- Built-in optical gate

### Application

- industrial materials
- organic electroluminescence
- liquid crystals
- water quality analysis
- pharmaceutical manufacturing
- intracellular calcium concentration measurement

### Description

ATF1970 fluorescence spectrophotometer is a new generation of high performance molecular luminescence analysis instrument. The product structure is exquisite, has the characteristics of high detection sensitivity, fast scanning speed, wide spectrum measuring range, high dynamic range, fast 3D scanning, and so on. Easily meet the requirements in the field of material research, pharmaceutical analysis, biochemical and clinical testing, water quality analysis and control, food safety testing (dairy products, aquatic products, such as vitamin C, selenium, aflatoxin), and other areas.



## 1. Parameter

Specification of ATF1970Pro Fluorescence Spectrophotometer	
Excitation Source	150W xenon lamp (Hamamatsu)
Excitation Wavelength	200nm~900nm
Emission Wavelength	200nm~900nm
Excitation Slit	10nm
Emission Slit	10nm
Wavelength Accuracy	±1.0nm
Wavelength Repeatability	0.5nm
Signal-to-Noise Ratio	Raman peak of water (P-P) : S/N≥150 (10nm Slit) S/N≥800 (RMS)
Limit	≤1×10 <sup>-10</sup> g/ml (Quinine Sulfate Solution)
Linearity	γ≥0.995
Peak Repeatability	≤1.5%
Stability(10min)	Zero Drift: ±0.3
	Value Limit: ±1.5%
Wavelength Scan Speed	Multi-speed Level, Maximum at 48000nm/min
Photometric Quantity Range	0.00-10000.00
Data Transportation	USB2.0
Power	200W
Power Source	AC 220V/50Hz; 110V/60Hz
Instrument Dimension	380×445×310 (mm)
Weight	Net Weight: 12kg Gross Weight: 14kg

## 2. Optional Parts

Accessories	Functions
10mm cell holder adapter	Conventional liquid fluorescence sample
Peltier temperature control holder	Control the sample temperature 15-45°C
Double frequency Filters	Remove the interference of frequency doubling
Membrane sample holder	For membrane sample
Powder sample holder	For powder samples
Auto Polarization filter	Adjust the polarization light
Multi-function adapter	Base for different holders