



FLUORESCENCE SPECTROPHOTOMETER BEQ-3802

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High sensitivity: based on high-efficiency optical design and weak signal detection technology, the water Raman peak signal-to-noise ratio can be greater than 200 (P - P) to the leading domestic and international advanced level.

High scanning speed: the high-speed digital signal processing unit provides the world's fastest scanning speed at 48000nm/min. Only 1 second to get classic fluorescence spectra, and 1 minute to get high-quality three-dimensional fluorescence spectra.

Wide Spectral measurement range: using a double monochromator design, excitation and emission wavelength range covering 200 nm to 900 nm, meet the needs of most fluorescence analysis.

Excitation light path monitoring system: the instrument is equipped with an excitation light dual beam ratio monitoring system to ensure the fluorescence signal

SPECIFICATIONS

Model	BEQ-3802
Wavelength Range	200-900 nm
Spectral Bandwidth	
Wavelength Accuracy	±1.0 nm
Excitation Source	150 W Xenon Lamp (Hamamatsu)
Excitation Wavelength	200-900 nm
Emission Wavelength	200-900 nm
Excitation Slit	2 nm, 5 nm, 10 nm, 20 nm
Emission Slit	2 nm, 5 nm, 10 nm, 20 nm
Wavelength Repeatability	≤0.5 nm
Signal-to-Noise Ratio	Raman peak of water (P-P), S/N ≥150 (10 nm slit)
Limit	≤1 x 10 ⁻¹⁰ g/mL (Quinine Sulfate Solution)
Linearity	γ ≥0.995
Peak Repeatability	≤1.5%
Stability (10 min)	Zero Drift: ±0.3; Value Limit: ±1.5%
Wavelength Scan Speed	Multi-speed level, maximum 48,000 nm/min
Photometric Quantity Range	0.00-10,000.00
Data Transportation	USB 2.0
Power	200 W
Power Source	AC 220 V / 50 Hz; 110 V / 60 Hz
Instrument Dimension	380 x 445 x 310 mm
Weight	Net Weight: 12 kg; Gross Weight: 14 kg
Alt Name	Fluorescence Spectrophotometer

ITEMS INCLUDED

No	Name	Quantity
1	Main Unit	1 pc
2	Data Processing Software	1 set
3	Power Cable	1 pc
4	USB Cable	1 pc
5	10 mm Fluorescence Cuvette (Quartz)	1 pair (2 pcs)

6	User Manual	1 copy
7	Packing List	1 copy
8	Fuse	4 pcs

ACCESSORIES FOR PURCHASE

No	Name	Functions
1	Single Sample Rack	For conventional liquid fluorescence samples
2	Multipurpose Fluorescent Sample Rack Holder	Base holder for other sample racks
3	Double-Frequency Filter Set	Includes 300 nm, 350 nm, 400 nm, 450 nm, 500 nm, 550 nm, 600 nm, and 650 nm filters (8 filters/set). Removes interference from double-frequency peaks at these wavelengths.
4	200 µL Micro-Scale Centrifuge Tube Rack	For fluorescence measurement of centrifuge tube samples
5	Micro-Scale Capillary Sample Rack	For micro-scale capillary samples
6	Semi-Automatic Sample Rack	For semi-automatic sample handling
7	Membrane Sample Rack (Reflection)	For membrane sample measurement in reflection mode
8	Membrane Sample Rack (Transmission)	For membrane sample measurement in transmission mode
9	Powder Sample Rack	For powder samples
10	Jacket Sample Rack	For jacket samples

FEATURES

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High scanning speed: the high-speed digital signal processing unit provides the world's fastest scanning speed at 48000nm/min. Only 1 second to get classic fluorescence spectra, and 1 minute to get high-quality three-dimensional fluorescence spectra.

Wide Spectral measurement range: using a double monochromator design, excitation and emission wavelength range covering 200 nm to 900 nm, meet the needs of most fluorescence analysis.

Excitation light path monitoring system: the instrument is equipped with an excitation light dual beam ratio monitoring system to ensure the fluorescence signal is high and stable.

High-quality assurance: using Hamamatsu's high-quality Xenon light source and photoelectric multiplier tube detectors and instruments to provide sufficient light intensity signal and detection sensitivity.

Built-in optical gate: Built-in optical gate, designed for unstable samples.



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