

FLUORESCENCE SPECTROSCOPY MODEL QUO

Fluorescence analysis is a highly selective and sensitive sophisticated analytical method. This method can provide information including excitation and emission spectrum, emission light intensity, measurement of life of emission light and polarization fluorescence etc. Fluorescence Spectroscopy is becoming an important analytical method in the region of trace analysis. BioEra's Fluorescence Spectroscopy Model Quo fulfills complete basic requirements of fluorometry analysis.



CAT. NO.: BE/CI/SP/FSQ-01

FEATURES

- Dual Operation Mode: Fluorescence Intensity and Luminous Intensity.
- Fluorescence Intensity Mode offers fluorescence scanning, kinetic determination and quantity analysis.
- 365nm exciting wavelength Raman peak of water in 1 cm quartz fluorescence cuvette $S/N \geq 150$
- High performance sensitivity makes analysis possible for even the lower detective samples.
- Provision of 10 stages gain adjustment selection for emission spectrum scanning, including high speed low S/N scanning and precise scanning.
- Total spectrum scanning could be completed in just 1 second.
- Provision of intelligent pre scanning feature assists in rapid detection of unknown sample's spectrum.
- Auto-emission of the influence of scattering peak and harmonic peaks ensures the better measurement parameters to locate the fluorescence emission peak.
- Support off-line mode and on-line mode of working. Under off-line mode, instrument's computer system offer the fluorescence intensity measurement, concentration direct reading, auto 0 adjustment, auto background subtraction etc. Under on-line mode, use of quality and quantity software can be done to for 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.
- The normalized feature for fluorescence value can make different fluorescence's result comparable.
- Provision of qualitative and quantitative software package offers expansible time scanning, wavelength scanning, graphic calculation and storage-access.
- Provision of Exciting optical filters and Interference optical filter.
- Standard set is equipped with an interference optical filter of central wavelength at 365nm and 10nm bandwidth.
- An optional interference optical filter of 25mm diameter of wavelength of 200-850 nm can be provided on users demand.
- Emission monochromator is C-T diffraction grating (Em 200~900nm, bandwidth 10nm).
- Wavelength accuracy is $\pm 1\text{nm}$
- Wavelength repeatability is $\leq 0.5\text{nm}$
- Linear measurement(r): ≥ 0.995
- Stability: better than 1.5%/10min
- Variation of power source: $220\text{V} \pm 22\text{V}$; $50\text{Hz} \pm 1\text{Hz}$
- Response time: (0.1-4)s ; 6 stages adjustable
- Fluorescence display value: 0.00-600.00
- Data transmission: USB2.0
- Dimension (W×D×H): 380×445×310 mm
- Net Weight: 13kg