

FLUORESCENCE SPECTROSCOPY MODEL WAVE

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 Wave is one of the world's fastest scanning speed machine (48000nm/min). BioEra's Model requires only 1 second to get classic fluorescence spectra and 1 minute to get high quality of three-dimensional fluorescence spectra.



CAT. NO.: BE/CI/SP/FSW-02

FEATURES

- High sensitivity: based on high efficiency optical design and competent technology to detect weakest signal.
- The water Raman peak signal to noise ratio is greater than 200 (P - P).
- High scanning speed: the high speed digital signal processing unit provides the fastest scanning speed at 48000nm/min. Only 1 second to get classic fluorescence spectra and 1 minute to get high quality of three-dimensional fluorescence spectra.
- Wide Spectral measurement range using a double monochromator design makes excitation and emission wavelength range covering 200 nm to 900 nm. Thus meets the needs of most fluorescence analysis.
- Excitation light path monitoring system: instrument is equipped with excitation light dual beam ratio monitoring system to ensure the fluorescence signal high and stable.
- High quality assurance: using high quality Xenon light source and photoelectric multiplier tube detectors.
- Provide sufficient light intensity signal and the detection sensitivity.
- Built-in optical gate: designed for unstable sample.
- Excitation Source: 150W xenon lamp
- Excitation Wavelength 200nm-900nm
- Emission Wavelength 200nm-900nm
- Excitation Slit 10nm
- Emission 10nm
- Wavelength Accuracy ± 1.0 nm
- Wavelength Repeatability ≤ 0.5 nm
- Signal-to-Noise Ratio : Raman peak of water P-P S/N ≥ 200 10nm Slit
- Limit : $\leq 1 \times 10^{-10}$ g/ml Quinine Sulfate Solution
- Linearity $\gamma \geq 0.995$
- Peak Repeatability $\leq 1.5\%$
- Stability (10min) Zero Drift ± 0.3
- Value Limit $\pm 1.5\%$
- 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
- Dimension (WDXH): 380 \times 445 \times 310 mm
- Net Weight: 14kg