



## SCANNING FLUORESCENCE SPECTROPHOTOMETER BKG-1701

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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.

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: 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 ph

## SPECIFICATIONS

|                            |                                                                   |
|----------------------------|-------------------------------------------------------------------|
| Model                      | BKG-1701                                                          |
| Wavelength Range           | 200-900nm                                                         |
| Spectral Bandwidth         |                                                                   |
| Wavelength Accuracy        | ±1nm                                                              |
| 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); S/N ≥1000 (RMS) |
| Limit                      | ≤1 x 10 <sup>-10</sup> 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 Dimensions      | 380 x 445 x 310 mm                                                |
| Net Weight                 | 12 kg                                                             |
| Gross Weight               | 14 kg                                                             |
| Alt Name                   | Fluorescence Spectrophotometer                                    |

## ACCESSORIES FOR PURCHASE

| No | Name                               | Functions                                      |
|----|------------------------------------|------------------------------------------------|
| 1  | 10 mm Cell Holder Adapter          | Conventional liquid fluorescence sample        |
| 2  | Peltier Temperature Control Holder | Controls the sample temperature from 15-45°C   |
| 3  | Double Frequency Filters           | Removes the interference of frequency doubling |
| 4  | Membrane Sample Holder             | For membrane samples                           |
| 5  | Powder Sample Holder               | For powder samples                             |

|   |                          |                                |
|---|--------------------------|--------------------------------|
| 6 | Auto Polarization Filter | Adjusts the polarization light |
| 7 | Multi-function Adapter   | Base for different holders     |

## FEATURES

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**Excitation light path monitoring system:** 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 the detection sensitivity.

**Built-in optical gate:** Built-in optical gate, designed for unstable sample.



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