



DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER BKG-901

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Spectral bandwidth: The spectral bandwidth of the instrument is 1nm / 2nm, which ensures excellent spectral resolution and accuracy required for analysis.

Ultra-low stray light: excellent C-T monochromator optical system, advanced electronic system, to ensure ultra-low stray light level better than 0.03%, to meet the user's measurement needs of high absorbance samples.

High-quality devices: The core devices are made of high-quality imported parts to ensure the stability and longevity of the instrument. For example, the core light source device is derived from the long-life deuterium lamp of Hamamatsu in Japan, which guarantees a working life of more than 2000 hours, greatly reducing the maintenance frequency and cost of daily replacement of the light source of the instrument.

Long-term stability and reliability: The design of the optical dual-beam optical

SPECIFICATIONS

Model	BKG-901
Wavelength Range	190-1100 nm
Spectral Bandwidth	1 nm
Wavelength Accuracy	±0.3 nm
Optical System	Optical double beam system
Monochromator System	Czerny-Turner monochromator
Grating	1200 lines/mm high-quality holographic grating
Wavelength Reproducibility	≤0.1 nm
Photometric Accuracy	±0.002 Abs (0-0.5 Abs); ±0.004 Abs (0.5-1.0 Abs); ±0.3%T (0-100%T)
Photometric Reproducibility	≤0.001 Abs (0-0.5 Abs); ≤0.002 Abs (0.5-1.0 Abs); ≤0.1%T (0-100%T)
Stray Light	≤0.03% (220 nm, NaI; 360 nm, NaNO ₂)
Noise	≤0.1%T (100%T); ≤0.05%T (0%T); ≤±0.0005 A/h (500 nm, 0 Abs, 2 nm bandwidth)
Baseline Flatness	±0.0008A
Baseline Noise	±0.1%T
Baseline Stability	≤0.0005 Abs/h
Modes	T / A / C / Energy
Data Range	-0.00-200.0%T; -4.0-4.0 A
Scan Speed	High / Medium / Low / Very Low
Wavelength Scan Interval	0.05 / 0.1 / 0.2 / 0.5 / 1 / 2 nm
Light Source	Japan Hamamatsu long-life deuterium lamp; long-life halogen tungsten lamp
Detector	Photocell
Display	7-inch large-screen color touch LCD
Interface	USB-A / USB-B
Power Supply	AC 90-250V, 50/60 Hz
Dimensions	600 x 470 x 220 mm
Weight	24 kg
Alt Name	Double Beam UV-Vis Spectrophotometer

FEATURES

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Long-term stability and reliability: The design of the optical dual-beam optical system, coupled with real-time digital proportional feedback signal processing, effectively offsets the signal drift of light sources and other devices, ensuring the long-term stability of the instrument baseline.

High wavelength accuracy: The high-level wavelength scanning mechanical system ensures the accuracy of wavelengths better than 0.3nm and the repeatability of wavelengths better than 0.1nm. The instrument uses the built-in spectral characteristic wavelengths to automatically perform wavelength detection and correction to ensure long-term wavelength accuracy stability.

Light source replacement is convenient: the instrument can be replaced without removing the shell. The light source switching mirror supports the function of automatically finding the best position. The in-line deuterium tungsten lamp design does not require optical debugging when replacing the light source.

The instrument is rich in functions: The instrument is equipped with a 7-inch large-screen color touch LCD screen, which can perform wavelength scanning, time scanning, multi-wavelength analysis, quantitative analysis, etc., and supports the storage of methods and data files. View and print the map. Easy to use, flexible and efficient.

Powerful PC software: the instrument is able to connect to the computer via USB. The software supports multiple functions such as wavelength scanning, time scanning, kinetic testing, quantitative analysis, multi-wavelength analysis, etc. There is an optional audit tracking version software that provides user authority management, operation traceability, and meet various requirements in different analysis fields such as pharmaceutical companies.



Biolab Scientific Ltd.

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: info@biolabscientific.com | Website: www.biolabscientific.com