



DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER BKG-1001

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DOUBLE BEAM UV-VIS SPECTROPHOTOMETER



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-1001
Wavelength Range	190-1100 nm
Spectral Bandwidth	2 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	±0.0008 A
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 screen
Interface	USB-A / USB-B
Power	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 meets various requirements in different analysis fields such as pharmaceutical companies.



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