



DOUBLE BEAM SCANNING UV VISIBLE SPECTROPHOTOMETER BEQ-3001

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DOUBLE BEAM UV-VIS SPECTROPHOTOMETER

The double beam UV-Vis spectrophotometer applies a new optical bench, with 5-speed adjustable bandwidth, ARM chip control, and data processing, an 8-inch color touch-screen that displays a menu, and spectral curve, and can analyze spectrum test data. The instrument can perform the following operations, including photometry, automatic scanning spectral measurement, quantitative analysis, dynamic analysis, and multi-wavelength measurement.

The instrument serves as the basic equipment for quality control, technical evaluation, and scientific research, and can be widely used in susceptibility testing, medicine and health, biochemistry, environmental monitoring, commodity inspection, petrochemical, and other fields.



Advanced Optical Platform with low stray light, low noise, high accuracy and stable performance.

Automatic D2/Tungsten Lamp Switching with convenient light-source replacement and maintenance.

Powerful Spectral Analysis including auto scanning, 1-3 λ multi-wavelength, kinetic measurement, 1-3 curve fitting and 1-4 derivative spectra.

Spectrum Printing, Storage & Data Analysis for complete result management.

8-Inch Color Touchscreen + USB Port for intuitive operation and PC connectivity.

SPECIFICATIONS

Model	BEQ-3001
Wavelength Range	190-1100nm
Spectral Bandwidth	0.5nm, 1nm, 2nm, 4nm, 5nm adjustable
Wavelength Accuracy	$\pm 0.3\text{nm}$ (actual test $\pm 0.2\text{nm}$)
Photometry	Double Beam
Monochromator Type	Czerny-Turner
Focal Length	200mm
Grating	1600 lines/mm
Detector	Silicon Photocell
Wavelength Setting	8-inch color touch-screen
Wavelength Repeatability	$\leq 0.1\text{nm}$
Scanning Speed	Fast-Medium-Slow
Stray Light	$\leq 0.02\%T$ (at 220nm NaI, 360nm NaNo ₂)
Photometric Range	0.0-200.0% T-0.301-4.000 A 0.000-9999 C
Photometric Accuracy	$\pm 0.3\% T \pm 0.002 \text{ Abs (0-0.5A)} \pm 0.004 \text{ Abs (0.5-1A)}$
Photometric Repeatability	$\leq 0.15\% T 0.001 \text{ Abs (0-0.5A)} 0.002 \text{ Abs (0.5-1A)}$
Baseline	$\leq \pm 0.0008 A (200-1090\text{nm})$
Noise	100%(T) noise $\leq 0.1\%(T)$, 0%(T) noise $\leq 0.02\%(T)$
Drifting	$\leq 0.004 \text{ Abs/h}$ (250nm and 500nm after 2h warm up)
COM Port	USB
Light Source	Hamamatsu D2 lamp, Osram halogen tungsten lamp
Power	AC220V $\pm$ 22V 50Hz $\pm$ 1Hz, 200W
Packaging Size	730mm X 630mm X 450mm 0.21M ³ 42.5kg
Alt Name	Double Beam UV-VIS Spectrophotometer

ITEMS INCLUDED

No	Name	Quantity
1	Operation manual	1pc
2	Glass cuvette 10mm	4pcs

3	Quartz cuvette 10mm	2pcs
4	Power cable	1pc
5	Fuse	2pcs
6	Cuvette holder 10mm	

ACCESSORIES FOR PURCHASE

No	Name	Size
1	UV WIN8 station pro software	
2	Cuvette holder	50mm 100mm
3	Cuvette	20mm 30mm 50mm 100mm



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