



SINGLE BEAM SCANNING UV VISIBLE SPECTROPHOTOMETER BEQ-3301

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UV VIS SPECTROPHOTOMETER SINGLE BEAM



LCD display (128*64 Dots).
Single beam ratio monitoring optical system.
Low noise and Low stray light.
High quality grating, detector and lamps.
Data and Curve can be stored in real-time.
Auto setting WL, auto Blank.
Lamps can be turned on/off individually.
Easy to change Pre-aligned lamps.
Reinforced baseboard and bracket assures durability.

SPECIFICATIONS

Model	BEQ-3301
Wavelength Range	190-1100nm
Spectral Bandwidth	2.0nm (4.0nm Optional)
Wavelength Accuracy	±0.5nm
Optical System	Single Beam, Blazed Holographic Grating (1200 lines/mm)
Wavelength Repeatability	≤0.2nm
Wavelength Setting	Auto, Resolution 0.1nm
Photometric Range	0-200%T, -0.3 - 3A, 0-9999C
Photometric Accuracy	±0.002A (0-0.5A), ±0.004A (0.5-1A), ±0.4%T (0-100%T)
Photometric Repeatability	≤0.001A (0-0.5A), ≤0.002A (0.5-1A), ≤0.2%T (0-100%T)
Stray Light	≤0.1%T(220/360nm)
Scan Speed	High, Medium, Low. Max.2000nm/minute
Baseline Flatness	±0.003A
Stability	±0.002A/h (500nm,0A)
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.5%T/3min (250/500nm,100%T)
Sample Compartment	Accommodate 5-100mm Pathlength Cuvette
Detector	Silicon Photodiode
Lamps	Tungsten Lamp & Deuterium Lamp (Pre-aligned)
Display	Graphic LCD (128*64 Dots)
Keypad	22-key Numeric Membrane Keypad
Output Port	USB Port & RS232 Port
Printer	Mini Printer (Optional); PC Printer (Optional)
PC Software	PC Software (Optional)
Power Requirements	AC 90-250V,50/60Hz
Dimension	490x390x280mm
Weight	18kg
Alt Name	UV VIS Spectrophotometer Single Beam

ITEMS INCLUDED

No	Name	Quantity
1	10mm glass cuvette	4pcs

2	10 mm Quartz Cuvette	2pcs
3	Power line	1pcs

ACCESSORIES FOR PURCHASE

No	Name	Quantity
1	Software card	1pcs
2	Software brochure	1pcs
3	Software dog	1pcs
4	USB cable	1pcs

APPLICATIONS

Education & Teaching Laboratories

Widely used in teaching laboratories for demonstrating Beer-Lambert Law, calibration curves, and basic qualitative and quantitative analysis of colored solutions.

Application in Chemical & Industrial Process Control

Chemical & Industrial Process Control

Measuring absorbance-based color intensity and tracking reaction kinetics in dyes, coatings, inks, and electroplating solutions for routine industrial quality control.

Pharmaceutical & Biotech Quality Control

Used for quantitative analysis of APIs and finished products with visible absorbance, dissolution testing, and optional basic DNA/protein quantification and reaction kinetics monitoring via PC software.

Water & Environmental Analysis

Used for routine colorimetric determination of ammonia nitrogen, total phosphorus, Cr, nitrite, and volatile phenols in environmental water quality monitoring.

Food & Agricultural Quality Control

For colorimetric detection of nitrite, nitrate, phosphate, peroxide value, and pigments in food and agricultural products for quality control compliance.



Biolab Scientific Ltd.

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

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