



SINGLE BEAM SCANNING UV VISIBLE SPECTROPHOTOMETER BEQ-3401

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UV VIS SPECTROPHOTOMETER SINGLE BEAM



LCD display (320*240 Dots), can display curve
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-3401
Wavelength Range	190-1100nm
Spectral Bandwidth	1.8nm
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	≤0.08%T(220/360nm)
Scan Speed	High, Medium, Low. Max.2000nm/minute
Baseline Flatness	±0.002A
Stability	±0.002A/h (500nm,0A)
Noise	≤0.2%T/3min (250/500nm,0%T); ≤0.4%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(320*240 Dots)
Keypad	30-key Alphanumeric Membrane Keypad
Output Port	USB Port & Parallel Port
Printer	Mini Printer (Optional); PC Printer (Optional)
PC Software	PC Software (Optional)
Power Requirements	AC 90-250V,50/60Hz
Dimension	545x468x245mm
Weight	20kg
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.



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