



SPLIT BEAM SCANNING UV VISIBLE SPECTROPHOTOMETER BEQ-2501

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UV-VIS SPECTROPHOTOMETER

This UV-VIS Spectrophotometer combines an ARM-processed core with fast testing and advanced functions. It supports wavelength scanning and a built-in thermal printer for spectral analysis and direct result printing. Designed for routine quantitative analysis in the visible and UV-Visible range, it is suitable for pharmaceutical, clinical, biochemical, petrochemical, environmental, quality control, and academic laboratories.



- Automatic wavelength settings.
- 7-inch multi-color touch-screen.
- Sample compartment for 5-100mm cuvettes.
- Equipped with a USB port.
- Precise automatic T/A changeover.
- Automatic zero and full-scale adjustment.
- Software optional.
- Power-off data protection.
- Tungsten and deuterium lamp lifetime protection.
- Built-in thermal printer.
- Wavelength scanning, kinetic scanning, linear regression, direct concentration readout and peak detection.

SPECIFICATIONS

Model	BEQ-2501
Wavelength Range	190-1100nm
Spectral Bandwidth	2nm
Wavelength Accuracy	±1nm
Photometry	Split Beam
Monochromator Type	Czerny-Turner
Focal Length	160mm
Grating	1200 lines/mm
Detector	Silicon Photocell
Wavelength Setting	7-inch color touch-screen
Wavelength Repeatability	≤0.5nm
Stray Light	≤0.1%T(at 220nm NaI, 360nm NaNo ₂)
Photometric Range	0.0-200.0% T-0.301-4.000 A0.000-9999 C
Photometric Accuracy	±0.5% T±0.004 Abs (0-0.5A)±0.008 Abs (0.5-1A)
Photometric Repeatability	≤0.2% T0.002 Abs (0-0.5A)0.004 Abs (0.5-1A)
Noise	100%(T)noise≤0.2%(T) , 0%(T)noise≤0.1%(T)
Power	AC220V±22V 50Hz±1Hz, 180W
Packaging Size	630mm X 535mm X 405mm 0.14M3 21kg
Alt Name	UV-VIS Spectrophotometer

ITEMS INCLUDED

No	Name	Quantity
1	Operation manual	1pc
2	Thermal Plotter	1pc
3	Glass cuvette 10mm	4pcs
4	Quartz cuvette 10mm	2pcs
5	Power cable	1pc
6	Fuse	2pcs
7	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

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.

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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