



DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER BEQ-2801

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DOUBLE BEAM UV-VIS SPECTROPHOTOMETER



Double beam optical system.
8-inch color touch-screen.
Automatic zero and full-scale adjustment.
Automatic wavelength settings.
Equipped with USB COM port.
UV WIN8 Spectrum Data Processing Software optional.
Kinetic scanning.
Linear regression curve analysis.
High-capacity internal memory.
Power-off protection.
Full-spectrum scanning.
Linear regression.

SPECIFICATIONS

Model	BEQ-2801
Wavelength Range	190-1100nm
Spectral Bandwidth	1.8nm
Wavelength Accuracy	±0.3nm
Photometry	Double Beam
Monochromator Type	Czerny-Turner
Focal Length	160mm
Grating	1200 lines/mm
Detector	Silicon Photocell
Wavelength Setting	8-inch color touch-screen
Wavelength Repeatability	≤0.1nm
Scanning Speed	Fast-Medium-Slow
Stray Light	≤0.03%T (at 220nm NaI, 360nm NaNo ₂)
Photometric Range	0.0-200.0% T
Photometric Accuracy	±0.3% T
Photometric Repeatability	≤0.15% T
Baseline	≤±0.002 A(200-1090nm)
Noise	100% (T) noise≤0.15%(T), 0% (T) noise≤0.1%(T)
Drifting	≤0.0009 Abs/h (250nm and 500nm after 2h warm up)
Power	AC220V±22V 50Hz±1Hz, 200W
Packaging Size	710mm X 590mm X 505mm 0.21m ³ 36kg
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
1	UV WIN8 station pro software

FEATURES

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Kinetic scanning.
Linear regression curve analysis.
High-capacity internal memory.
Power-off protection.
Full-spectrum scanning.
Linear regression.
Detailed spectrum scanning.
Concentration on direct reading.
Time-based kinetics determination.
Peak / Valley detecting.
GOTO λ .
Multi-wavelength measurement.

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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