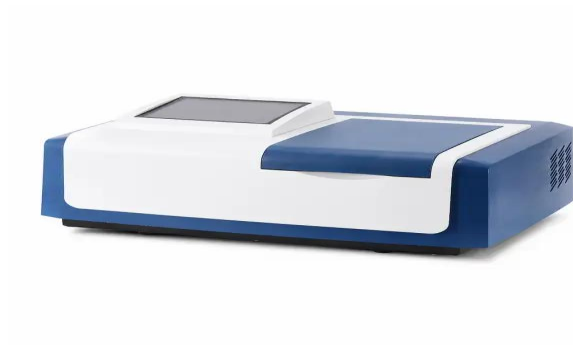




SPLIT BEAM SCANNING VISIBLE SPECTROPHOTOMETER BEQ-2101

VISIBLE SPECTROPHOTOMETER BEQ-2101

SPLIT BEAM VIS SPECTROPHOTOMETER WITH SCANNING

The Split Beam VIS Spectrophotometer features full-spectrum scanning, automatic wavelength setting, and an automatic 8-position cuvette holder. Its 8-inch color touchscreen supports quantitative, kinetic, multi-wavelength and spectral analysis for routine QC and research laboratories.



Full-Spectrum Scanning: Fast / Medium / Slow scanning with peak/valley detection.
Automatic 8-Position Cuvette Holder: Supports automatic multi-sample measurement.

8-Inch Color Touchscreen: Automatic wavelength setting and direct instrument control.

Quantitative & Kinetic Analysis: Linear regression, direct concentration readout and time-based kinetics.

Multi-Wavelength & GOTO λ : Supports multi-wavelength measurement and quick wavelength positioning.

Internal Memory & Power Protection: Stores results, spectra, regression equations and correction data.

SPECIFICATIONS

Model	BEQ-2101
Wavelength Range	325-1100nm
Spectral Bandwidth	1.8nm
Wavelength Accuracy	$\pm 0.5\text{nm}$
Photometry	Split Beam
Monochromator Type	Czerny-Turner
Focal Length	160mm
Grating	1200 lines/mm
Detector	Silicon Photocell
Wavelength Setting	8-inch color touch-screen
Wavelength Repeatability	$\leq 0.2\text{nm}$
Scanning Speed	Fast-Medium-Slow
Stray Light	$\leq 0.03\%T$ (at 220nm NaI, 360nm NaNo ₂)
Photometric Range	0.0-200.0% T-0.301-4.000 A0.000-9999 C
Photometric Accuracy	$\pm 0.5\% T \pm 0.002 \text{ Abs (0-0.5A)} \pm 0.004 \text{ Abs (0.5-1A)}$
Photometric Repeatability	$\leq 0.2\% T 0.001 \text{ Abs (0-0.5A)} 0.002 \text{ Abs (0.5-1A)}$
Baseline	$\leq \pm 0.002 A$ (335-1090nm)
Noise	100%(T)noise $\leq 0.2\%(T)$, 0%(T)noise $\leq 0.1\%(T)$
Drifting	$\leq 0.0009 \text{ Abs/h}$ (at 500nm after 2h warm up)
Power	AC220V $\pm 22V$ 50Hz $\pm 1\text{Hz}$, 120W
Packaging Size	710mm X 590mm X 505mm 0.21M3 40kg
Alt Name	Split Beam VIS Spectrophotometer with Scanning

ITEMS INCLUDED

No	Name	Quantity
1	Operation manual	1pc
2	Glass cuvette 10mm	4pcs
3	Power cable	1pc
4	Fuse	2pcs
5	Cuvette holder 10mm	1pc

ACCESSORIES FOR PURCHASE

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

FEATURES

Full-Spectrum Scanning: Fast / Medium / Slow scanning with peak/valley detection.

Automatic 8-Position Cuvette Holder: Supports automatic multi-sample measurement.

8-Inch Color Touchscreen: Automatic wavelength setting and direct instrument control.

Quantitative & Kinetic Analysis: Linear regression, direct concentration readout and time-based kinetics.

Multi-Wavelength & GOTO λ : Supports multi-wavelength measurement and quick wavelength positioning.

Internal Memory & Power Protection: Stores results, spectra, regression equations and correction data.

USB + Optional Software: Supports PC data processing, spectrum analysis and result storage.

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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