



SPLIT BEAM UV VISIBLE SPECTROPHOTOMETER BEQ-2701

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SPLIT BEAM UV-VIS SPECTROPHOTOMETER

This series Split Beam UV-VIS Spectrophotometer survey optical system, and blazed holographic gratings. They have outstanding test precision and very competitive prices. and blazed holographic gratings. Its 8-inch color touchscreen supports quantitative, kinetic and multi-wavelength analysis, while this adds full-spectrum scanning for more advanced spectral applications.



Full-spectrum scanning.
Linear regression.
Detailed spectrum scanning.
Concentration on direct reading.
Time-based kinetics determination.
Peak / Valley detecting.
GOTO λ .
Multi-wavelength measurement.
Split beam optical system.
Automatic wavelength settings.
8-inch multi-color touch-screen.
Automatic 8-position cuvette holder.

SPECIFICATIONS

Model	BEQ-2701
Wavelength Range	190-1100nm
Spectral Bandwidth	1.8nm
Wavelength Accuracy	$\pm 0.3\text{nm}$
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	$\leq 0.1\text{nm}$
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	$\pm 0.3\% T \pm 0.002 \text{ Abs (0-0.5A)} \pm 0.004 \text{ Abs (0.5-1A)}$
Photometric Repeatability	$\leq 0.15\% T 0.001 \text{ Abs (0-0.5A)} 0.002 \text{ Abs (0.5-1A)}$
Noise	100%(T)noise $\leq 0.15\%(T)$, 0%(T)noise $\leq 0.1\%(T)$
Power	AC220V $\pm 22V$ 50Hz $\pm 1\text{Hz}$, 200W
Packaging Size	710mm X 590mm X 505mm 0.21M3 40kg
Alt Name	Split 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	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

FEATURES

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Linear regression.
Detailed spectrum scanning.
Concentration on direct reading.
Time-based kinetics determination.
Peak / Valley detecting.
GOTO λ .
Multi-wavelength measurement.
Split beam optical system.
Automatic wavelength settings.
8-inch multi-color touch-screen.
Automatic 8-position cuvette holder.
Automatic zero and full-scale adjustment.
Equipped with a USB port.
Software optional.

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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