



SPLIT BEAM UV VISIBLE SPECTROPHOTOMETER BEQ-2301

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UV-VIS SPECTROPHOTOMETER



1200 lines/mm grating and silicon photocell detector ensure stable and accurate detection.

T/A/C measurement with automatic 0A / 100%T adjustment simplifies routine testing.

Direct concentration readout and concentration-factor setting enable faster quantitative analysis.

5-50 mm cuvette support and USB connectivity provide flexible sample measurement and data processing.

Automatic light gate, backlit LCD and user-replaceable lamps simplify operation and routine maintenance.

Easy to change the halogen lamp or deuterium lamp by the user himself.

SPECIFICATIONS

Model	BEQ-2301
Wavelength Range	200-1000nm
Spectral Bandwidth	2nm
Wavelength Accuracy	±2nm
Photometry	Split Beam
Monochromator Type	Czerny-Turner
Focal Length	160mm
Grating	1200 lines/mm
Detector	Silicon Photocell
Wavelength Setting	Manual Turn Knob
Wavelength Repeatability	≤1nm
Stray Light	≤0.1%T(at 220nm NaI, 360nm NaNo ₂)
Photometric Range	0.0-200.0% T-0.097-4.000 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≤0.3%(T) , 0%(T)noise≤0.2%(T)
Power	AC220V±22V 50Hz±1Hz, 120W
Packaging Size	580mm X 460mm X 345mm 0.1M3 16.5kg
Alt Name	UV-VIS Spectrophotometer

ITEMS INCLUDED

No	Name	Quantity
1	Operation manual	1pc
2	UV WIN8 Spectrum data processing software	1pc
3	Glass cuvette 10mm	4pcs
4	Quartz cuvette 10mm	2pcs
5	Power cable	1pc
6	Fuse	2pcs
7	Cuvette holder 10mm	1pc

ACCESSORIES FOR PURCHASE

No	Name	Size
1	Cuvette holder	50mm 100mm
2	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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