



VISIBLE SPECTROPHOTOMETER BEQ-1601

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VIS SPECTROPHOTOMETER



Direct Quantitative Analysis: Supports direct concentration readout, concentration-factor setting, linear regression and coefficient methods.

30-Curve Memory & USB: Stores up to 30 concentration curves and includes a USB interface for convenient data handling.

Automatic T/A & Zero Adjustment: Microcomputer measurement system supports precise T/A conversion and automatic 0%T / 100%T adjustment.

Flexible Cuvette Compartment: Supports 5-50 mm cuvettes for different sample and measurement requirements.

Automatic Light Gate Protection: Automatic light-gate technology eliminates the need for a blackbody and helps protect the photoelectric sensor.

SPECIFICATIONS

Model	BEQ-1601
Wavelength Range	340-1100nm
Spectral Bandwidth	2nm
Wavelength Accuracy	±2nm
Photometry	Split Beam
Monochromator Type	Czerny-Turner
Focal Length	160mm
Grating	1200 lines/mm
Detector	Silicon Photocell
Spectrum Bandwidth	2nm
Wavelength Setting	Manual Turn Knob
Wavelength Repeatability	≤1nm
Stray Light	≤0.1%(at 360nm NaNo ₂)
Photometric Range	0.0-100.0% T 0.000-1.999 A 0.000-1999 C
Photometric Accuracy	±0.5% T ±0.004 Abs (0-0.5A) ±0.008 Abs (0.5-1A)
Photometric Repeatability	≤0.2% T 0.002 Abs (0-0.5A) 0.004 Abs (0.5-1A)
Noise	100%(T) noise ≤0.3%(T) , 0%(T) noise ≤0.2%(T)
Power	AC 220V ± 22V 50Hz ± 1Hz, 80W
Packaging Size	580mm X 460mm X 345mm 0.1M ³ 12.5kg
Alt Name	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	Power cable	1pc
5	Fuse	2pcs
6	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.

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.

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.

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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