



SCANNING VISIBLE SPECTROPHOTOMETER BEQ-1901

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VIS SPECTROPHOTOMETER

This spectrophotometer, being combined with an ARM processed core, has test speeds and functions possessed by high-end instruments. The instrument can meet the requirement of quantitative analysis for most samples conducted within the visible and ultraviolet-visible spectral range in conventional laboratories and is suitable for use in medicine and health, clinical examination, biochemical, petrochemical, environmental protection, quality control departments, colleges and universities and others.



Wavelength Scanning: Fast / Medium / Slow scanning with kinetic analysis and peak detection.

Automatic Wavelength Setting: Fast, accurate wavelength positioning.

7-Inch Color Touchscreen: Clear display and intuitive operation.

Quantitative Analysis: Linear regression, direct concentration readout, concentration-factor setting and T/A changeover.

Automatic Zero & Full Scale: Automatic 0%T / 100%T adjustment.

5-100 mm Cuvette Support: Compatible with multiple optical path lengths.

Built-in Thermal Printer: Direct test-result printing.

USB + Optional UVWIN8 Software: Supports PC data processing, graphing and storage.

Power-Off Data Protection: Retains test data, equations and correction parameter

SPECIFICATIONS

Model	BEQ-1901
Wavelength Range	325-1100nm
Spectral Bandwidth	2nm
Wavelength Accuracy	±1nm
Photometry	Split Beam
Monochromator Type	Czerny-Turner
Focal Length	160mm
Grating	1200 lines/mm
Detector	Silicon Photocell
Wavelength Setting	7-inch color touch-screen
Wavelength Repeatability	≤0.5nm
Scanning Speed	Fast-Medium-Slow
Stray Light	≤0.1%T(at 360nm NaNo ₂)
Photometric Range	0.0-200.0% T-0.301-4.000 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≤0.2%(T) , 0%(T)noise≤0.1%(T)
Power	AC220V±22V 50Hz±1Hz, 100W
Packaging Size	630mm X 535mm X 405mm 0.14M3 21kg
Alt Name	VIS Spectrophotometer

ITEMS INCLUDED

No	Name	Quantity
1	Operation manual	1pc
2	Thermal Plotter	
3	Glass cuvette 1cm	4pcs
4	Power cable	1pc
5	Fuse	2pcs
6	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

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Power-Off Data Protection: Retains test data, equations and correction parameters.

Tungsten Lamp Protection: Helps extend lamp service life.

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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