



VISIBLE SPECTROPHOTOMETER BEQ-1401

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VIS SPECTROPHOTOMETER



Sample compartment for 5-100mm cuvettes.
Equipped with RS232 port.
Precise automatic T/A changeover.
Automatic zero and full-scale adjustment.
Direct concentration read-out and concentration factor setting function.
Software optional.
High-quality silicon photometric diode detector and 1200 lines/mm diffraction grating ensure high-quality accuracy and precision.
Backlit LCD display for an easy readout.
Automatic 0A and 100%T.
Easy switching of transmittance, absorbance, and concentration modes, just by pressing one key.

SPECIFICATIONS

Model	BEQ-1401
Wavelength Range	340-1000nm
Spectral Bandwidth	5nm
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	≤0.5%(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	AC220V±22V 50Hz±1Hz, 130W
Packaging Size	560mm X 490mm X 285mm 0.08M ³ 14kg
Alt Name	VIS Spectrophotometer

ITEMS INCLUDED

No	Name	Quantity
1	Operation manual	1pc
2	UV WIN7 software	1pc
3	Glass cuvette	4pcs
4	Power cable	1pc
5	Fuse	2pcs
6	Cuvette holder 50mm	1pc

ACCESSORIES FOR PURCHASE

No	Name	Size
1	Cuvette holder	100mm

2	Cuvette	20mm 30mm 50mm 100mm
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FEATURES

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Automatic zero and full-scale adjustment.

Direct concentration read-out and concentration factor setting function.

Software optional.

High-quality silicon photometric diode detector and 1200 lines/mm diffraction grating ensure high-quality accuracy and precision.

Backlit LCD display for an easy readout.

Automatic 0A and 100%T.

Easy switching of transmittance, absorbance, and concentration modes, just by pressing one key.

Direct concentration read-out and concentration factor setting function.

Large sample compartment, for 5 - 100mm path length cuvettes with optional holders.

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

APPLICATIONS

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.

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.



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