BioLAB

PRODUCT CATALOG

# SPLIT BEAM UV VISIBLE SPECTROPHOTOMETER
# BEQ-2401

CE ISO9001 CERTIFIED

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# SPLIT BEAM UV VISIBLE SPECTROPHOTOMETER BEQ-2401

UV-VIS SPECTROPHOTOMETER

This UV-VIS Spectrophotometer combines an ARM-processed core with fast testing and advanced functions. It supports wavelength scanning and a built-in thermal printer for spectral analysis and direct result printing. Designed for routine quantitative analysis in the visible and UV-Visible range, it is suitable for pharmaceutical, clinical, biochemical, petrochemical, environmental, quality control, and academic laboratories.

Automatic wavelength settings.
7-inch multi-color touch-screen.
Sample compartment for 5-100mm cuvettes.
Equipped with a USB port.
Precise automatic T/A changeover.
Automatic zero and full-scale adjustment.
Software optional.
Power-off data protection.
Tungsten and deuterium lamp lifetime protection.

## SPECIFICATIONS

| Model | BEQ-2401 |
|---|---|
| Wavelength Range | 190-1100nm |
| 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 |
| Stray Light | ≤0.1%T( at 220nm Nal, 360nm NaNo2 ) |
| 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, 180W |
| Packaging Size | 630mm X 535mm X 405mm 0.14M3 21kg |
| Alt Name | 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 | Fuse | 2pcs |
| 6 | 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 |

## 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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