



## DOUBLE BEAM SCANNING UV VISIBLE SPECTROPHOTOMETER BEQ-2901

# DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER BEQ-2901

## DOUBLE BEAM UV-VIS SPECTROPHOTOMETER

The double beam UV-Vis spectrophotometer applies a new optical bench, with 5-speed adjustable bandwidth, ARM chip control, and data processing, an 8-inch color touch-screen that displays a menu, and spectral curve, and can analyze spectrum test data. The instrument can perform the following operations, including photometry, automatic scanning spectral measurement, quantitative analysis, dynamic analysis, and multi-wavelength measurement.

The instrument serves as the basic equipment for quality control, technical evaluation, and scientific research, and can be widely used in susceptibility testing, medicine and health, biochemistry, environmental monitoring, commodity inspection, petrochemical, and other fields.



Advanced Optical Platform with low stray light, low noise, high accuracy and stable performance.

Automatic D2/Tungsten Lamp Switching with convenient light-source replacement and maintenance.

Powerful Spectral Analysis including auto scanning, 1-3  $\lambda$  multi-wavelength, kinetic measurement, 1-3 curve fitting and 1-4 derivative spectra.

Spectrum Printing, Storage & Data Analysis for complete result management.

8-Inch Color Touchscreen + USB Port for intuitive operation and PC connectivity.

## SPECIFICATIONS

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| Model                     | BEQ-2901                                                        |
| Wavelength Range          | 190-1100nm                                                      |
| Spectral Bandwidth        | 2nm                                                             |
| Wavelength Accuracy       | $\pm 0.3\text{nm}$ (actual test $\pm 0.2\text{nm}$ )            |
| Photometry                | Double Beam                                                     |
| Monochromator Type        | Czerny-Turner                                                   |
| Focal Length              | 200mm                                                           |
| Grating                   | 1600 lines/mm                                                   |
| Detector                  | Silicon Photocell                                               |
| Wavelength Setting        | 8-inch color touch-screen                                       |
| Wavelength Repeatability  | $\leq 0.1\text{nm}$                                             |
| Scanning Speed            | Fast-Medium-Slow                                                |
| Stray Light               | $\leq 0.02\%T$ ( at 220nm NaI, 360nm NaNo <sub>2</sub> )        |
| Photometric Range         | 0.0-200.0% T-0.301-4.000 A0.000-9999 C                          |
| Photometric Accuracy      | $\pm 0.3\%$ T $\pm 0.002$ Abs (0-0.5A) $\pm 0.004$ Abs (0.5-1A) |
| Photometric Repeatability | $\leq 0.15\%$ T0.001 Abs (0-0.5A)0.002 Abs (0.5-1A)             |
| Baseline                  | $\leq \pm 0.0008$ A(200-1090nm)                                 |
| Noise                     | 100%(T)noise $\leq 0.1\%(T)$ , 0%(T)noise $\leq 0.02\%(T)$      |
| Drifting                  | $\leq 0.004$ Abs/h (250nm and 500nm after 2h warm up)           |
| COM Port                  | USB                                                             |
| Light Source              | Hamamatsu D2 lamp,Osram halogen tungsten lamp                   |
| Power                     | AC220V $\pm 22\text{V}$ 50Hz $\pm 1\text{Hz}$ , 200W            |
| Packaging Size            | 730mm X 630mm X 450mm 0.21M <sup>3</sup> 42.5kg                 |
| Alt Name                  | Double Beam 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 |



**Biolab Scientific Ltd.**

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)