

## DOUBLE BEAM UV-VIS SPECTROPHOTOMETER RIC-73E-B-L SERIES VARIABLE BANDWIDTH

### FEATURES:

- Unique Dual-Monochromator optical design, =0.0003%T ultra-low stray light.
- 0.1 nm optical resolution with four options for spectral bandwidth selection.
- Linear range 3.5Abs, accurate test for high-concentrated samples without pre-dilution.
- 4 tunable bandwidths of 0.5nm, 1nm, 2nm and 4nm
- Test with  $\pm 0.3$ nm wavelength accuracy ensures confidence.
- High precision processes and high quality techniques achieve higher durability.
- Supports storage & printing with USB devices, controllable by UltraUV workstation for extended functions
- Ultra-low stray light design for more precise measurement
- Good wavelength accuracy for quantitative/qualitative measurement
- Fully-controlled by workstation/software, more functions to realize
- Complete connectivity: LAN, USB host & device
- Support U disk storage and USB print
- Connectable to PC via LAN and USB ports



### SPECIFICATIONS:

Model	RIC-73E-V-B-L
Light Path	Double Beam
Spectral Bandwidth nm	0.5 & 1 & 2 & 4
Screen	7" TFT Colour Screen
Stray Light	=0.03 %T
Wavelength Range	190 to 1100nm
Wavelength Accuracy	$\pm 0.3$ nm
Wavelength Repeatability	0.1nm
Transmittance Accuracy	$\pm 0.3\%$ T
Transmittance Repeatability	$\pm 0.1\%$ T
Base Line Flatness	$\pm 0.0008$ Abs
Base Line Drift	0.0005Abs/H
Noise	$\pm 0.00004$ Abs/H
Detector	Photomultiplier
Software/ Workstation	Available

## UV SOFTWARE/WORKSTATION

It is the full-control workstation for RIC-73E-B series UV-VIS spectrophotometers, it offers performance with intuitive user interface; features a variety of interfaces, such as RS-232, USB and Ethernet; compatible with Microsoft Windows XP/Windows Vista/Windows 7 operating systems, supports multi-language GUI.

### FEATURES AND BENEFITS OF SOFTWARE:

- Versatile test solutions: spectral test, dynamic test, photometric test, quantitative test - customizable.
- Powerful data-processing capability
- User definable report formats
- GLP/GMP regulations compliance

#### Spectrum Measurement

- Scan a selected wavelength range by using certain Wavelength-intervals. The Spectral test usually is selected for qualitative analysis. Thank to its intuitive graphic display, the Spectral Test provides users with a clear picture of the substance's properties.

#### Dynamic Measurement

- Sample in certain time intervals and convert the data into graphs. Dynamic Test is usually used to investigate the changes of the samples over time.

#### Photometric Measurement

- Collect data from a specific wavelength range only, Photometric Test supports up to 10 wavelengths.

#### Quantitative Measurement

- Based on comparison of readouts between test substance and standard sample, Quantitative Test calculates the concentration values of the substance under test. Featured test methods: single-wavelength, double-wavelength, tri-wavelength, first-derivative, second-derivative, third-derivative, etc.

#### Data Processing

- UltraUV station software features powerful data-processing functions. It supports interpolation, +, -, x, /, set operations, 9 transforms, general mean and many more math functions.

#### GLP/GMP regulations compliance

- The system data and the test procedures can be well protected by setting user accounts with different permissions or access levels.
- Auto User Log function allows easier user accounts and events management
- The user data and the test procedures information can be compressed to save disc space and have better security.

#### User Definable Report Format

- Graphical report generator for quick plug and play reporting.

#### Accessories & Options

- Automatic 8-cell holder; Prolonged cell frame
- Hold-frame for solid sample; Integration sphere
- Accessories for mirror reflections

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