



Spectro UV-Vis Dual Beam PC Scanning Spectrophotometer UV-VIS Split Beam 8 Auto Cell

Models UVS-2700 and UVS-2800

Software Specifications

Spectro UV-Vis Split Beam PC is a precise scanning Spectrophotometer with a new design of 8 microprocessor automatic 2 row cell holder that moves noiseless with a special membrane. This Split Beam Spectro has a dual detector and a very accurate system. Spectro UV-Vis Split Beam PC is microcomputer-controlled and has a large LCD display to work independently. It can also be linked to a computer and a printer to show Photometric and Spectral data in the PC monitor. This connection is controlled by the RS232 and USB interface, compatible with Windows XP, 7 and 8, using the new UVWin 6.0 UV-VIS application software.

Spectro UV-Vis Split Beam PC is also capable of performing kinetic test by an optional Peltier constant temperature system, and can test flow through liquid by the optional Sipper Flow Through System. Spectro UV-Vis Split Beam PC can be used as an accurate system for qualitative and quantitative analysis of analytical test, Biochemistry, Chemistry, Clinical Analysis, Pharmaceutical and Agriculture Labs, Quality control, Industry and research.

Spectro UV-Vis Split Beam PC can perform protein, nucleic acid, DNA/RNA micro and macro measurements, that can also be printed using an external HP 600/800 series printer or a PC printer.

There are 2 models of Spectro UV-Vis Split Beam PC available:

- 1) Spectro UV-Vis Split Beam PC with fixed bandwidth of 1 nm (UVS-2700).
- 2) Spectro UV-Vis Split Beam PC with variable bandwidth of 0.5, 1.0, 2.0 and 5.0 nm. (UVS-2800) is also available.

This Spectro can be used by itself or linked to a PC and comes with a USB interface to connect to the computer.

Technical Specifications

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| Wavelength: | 190 nm - 1100 nm | Reference: | 0.001A/30 min (2 hours warming up, 2nm bandwidth, at 500 nm) |
| Spectral bandwidth: | 1nm (UVS-2700) 5.0, 2.0, 1.0, 0.5nm (UVS-2800) | Slew rate of Wavelength: | 3600nm/min |
| Resolution: | 0.1nm | DNA / RNA measurement: | Print Results: The print data measured with any printer |
| Straylight: | ≤0.12%T (220nm NaI, 340nm NaNO ₂) | | Available parallel port connection. |
| Wavelength accuracy: | ± 0.3 nm (with automatic wavelength correction) | Mainframe: | Compact and standalone spectrophotometer mainframe |
| Wavelength Reproducibility: | ± 0.2 nm | Light Source: | Socket Deuterium Lamp and Socket Tungsten |
| Photovoltaic system: | Double-beam ratio monitoring system | | Halogen Lamp |
| Optical method: | Transmittance, absorbance, energy and concentration | Detector: | Silicon photodiode |
| Range: | -0.3 ~ 3.0 Abs | Sample Chamber: | Automatic eight-cell sample holder/changer |
| Photometric Accuracy: | ± 0.002Abs (0 ~ 0.5), 0.004Abs ± (0.5 ~ 1.0) | Screen | Digital LCD Display |
| | ± 0.3% T (0 ~ 100% T) | Keyboard: | Touch soft keys |
| Photometric Reproducibility: | ± 0.001Abs (0 ~ 0.5), 0.002Abs ± (0.5 ~ 1.0) | PC interface: | PC Interface: RS-232, USB |
| | ± 0.15% T (0 ~ 100% T) | Standard Functionality: | Photometric, Quantitative, Spectrum, and |
| Optical display: | -9.999----9.999 | | DNA Measurements |
| Photometric Noise: | ± 0.001Abs (500 nm) 30 min warm up | Software Support: | UVWin 6.0 |
| Scanning speed: | 1400nm/min or selectable | Size: | 22 "x 16" x 10 " |
| Baseline Flatness: | ± 0.002Abs | Weight: | 55 Lb |