Spectro UV-VIS Double PC 8 Auto Cell Scanning Spectrophotometer

Model UVD-3000

Software Specifications

Monoprocessor Built-in Application:
Photometric Measurement: Measuring transmittance or absorbance at the current wavelength together with K factor calculations.
Spectrum Scan: Carrying out scanning of transmittance or absorbance on the selected wavelength range together with peak-pick module.
Quantitative Determination: Regression of standard curves and direct determination concentration of samples.
PC Windows Application Software (RS-232 and USB Interface) to link Spectro to computer and printer:
Photometric Measurement: Measuring the photometric values at 1-10 wavelengths together with mathematical calculations according to entered quotations.
Spectrum Scan: Producing Wavelength scans within the operating parameters on samples together with powerful data handling facilities.
Quantitative Determination: Determination of unknown concentration with methods of 1-3 wavelength quantitation, together with fitting of calibration curve of 1st ~ 4th order.
Kinetics: Recording curves of changing photometric values of samples against timecourse at the selected wavelengths together with powerful data handling facilities.
Output: With the Windows clipboard, the measured data and graphics can be copied to other applications software for reports.

Technical Specifications

Wavelength range:	190 nm – 1100 nm	Baseline Stability:	0.008Abs/h (500 nm., after preheating).
Spectral Bandwidth:	1.0 nm	Slew Rate of Wavelength:	3600nm/min
		DNA/RNA Measurement:	Results Printout: Printing of measured data
Resolution:	0.1nm		by using any Printer with Parallel Port
Straylight:	0.2%T (220 nm and 340 nm)		connection available.
Wavelength Accuracy:	0.3 nm (with automatic wavelength correction)	Mainframe:	Compact and standalone spectrophotometer
Wavelength Reproducibility:	0.2 nm		mainframe
Photometric System:	The double-beam monitoring ratio system.	Light Source:	Socket Deuterium Lamp and Socket
Photometric Method:	Transmittance, absorbance, energy, concentration		Tungsten Halogen Lamp
Photometric Range:	-0.3~3.0 Abs (0~200%T)	Detector:	Double Beam
Photometric Accuracy:	0.002Abs (0~0.5Abs) , 0.004Abs (0.5~1.0Abs)	Sample Chamber:	Automatic eight-cell sample
Photometric Reproducibility:	0.001Abs (0~0.5 Abs), 0.002Abs (0.5~1.0Abs),	Display	Liquid Crystal Display (LCD 320 - 240
	0.15%T (0~100%T)		dot matrix)
Photometric Display:	-9999 ---- 9999	Keypad:	Touch soft keys.
Photometric Noise:	<±0.001Abs (500nm, 0Abs, 2nm Bandwidth)	PC Interface:	PC Interface: RS-232, USB
Scanning Speed:	1400nm/min	Size:	22" x 16" x 10"
Baseline Flatness:	0.0015Abs (190 nm. ~1100 nm.)	Weight:	55 Lb