



Spectro UV-VIS Double Beam PC Scanning Spectrophotometer

Model UVD-2950

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 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:	0.002Abs/h (500 nm., after preheating).
Spectral Bandwidth:	2,0 nm	Slew rate of wavelength:	3600nm/min
Resolution:	2nm.	DNA/RND Measurement:	Results Printout: Printing of measured data by using any Printer with Paralell Port connection available.
Straylight:	0.2%T (220 nm and 340 nm)	Mainframe:	Compact and standalone spectrophotometer mainframe
Wavelength accuracy:	0.5 nm (with automatic wavelength correction).	Light Source:	Socket Deuterium Lamp and Socket Tungsten Halogen Lamp
Wavelength Reproducibility:	0.2 nm	Detector:	Double Beam
Photometric System:	The double-beam monitoring ratio system.	Sample Chamber:	2 cell holder
Photometric Method:	Transmittance, absorbance, energy, concentration	Display	Liquid Crystal Display (LCD 320 iÅ240 dot matrix)
Photometric Range:	-0.3~3.0 Abs (0~200%tT)	Keypad:	Touch soft keys.
Photometric Accuracy:	0.002Abs (0~0.5Abs) , 0.004Abs (0.5~1.0Abs), ±0.3%T (0-100%T)	PC Interface:	PC Interface: RS-232
Photometric Reproducibility:	0.001Abs (0~0.5 Abs), 0.002Abs (0.5~1.0Abs), 0.15%T (0~100%T),	Size:	22x16x10"
Photometric Display:	-9999 ---- 9999	Weight:	55 Lb
Photometric Noise:	< ±0.001Abs (500nm, 0Abs, 2nm Bandwidth)		
Scanning Speed:	1400nm/min		
Baseline Flatness:	0.002Abs (190 nm. ~1100 nm.)		