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:	0.0008Abs/h (1/2 hr warmup, 1nm bandwidth, at 500 nm)
Spectral Bandwidth:	2.0nm (UVD-3000)		Slew Rate of Wavelength:	3600nm/min
			DNA/RNA Measurement:	Results Printout: Printing of measured data
Resolution:	0.5nm			by using any Printer with Parallel Port
Straylight:	>2.10Abs (200nm)			connection available.
Wavelength Accuracy:	±0.3 nm (with automatic wavelength correction)		Mainframe:	Compact and standalone spectrophotometer
Wavelength Reproducibility:	±0.2 nm			mainframe
Photometric System:	Double beam optical 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). ± 0.3% T (0 ~ 100% T)		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
	T (0 ~ 100% T) 0.15%			dot matrix)
Photometric Display:	-9999 ---- 9999		Keypad:	Touch soft keys.
Photometric Noise:	± 0.001Abs at 120 seconds (500 nm, 1 nm bandwidth, 0Abs)		PC Interface:	PC Interface: RS-232
Scanning Speed:	1400nm/min		Size:	22" x 16" x 10"
Baseline Flatness:	±0.0015Abs (200 nm. ~1100 nm)		Weight:	55 Lb