



Spectro UV-VIS Dual Beam PC Scanning Spectrophotometer

UV-VIS Split Beam 8 Auto Cell

Models UVS-2700 and UVS-2800

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)

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

Optical System	Dual Beam	Baseline Flatness:	0.002Abs (190 nm. ~1100 nm.)
Wavelength range:	190 nm – 1100 nm	Baseline stability:	0.002Abs/h (500 nm., after preheating)
Spectral Bandwidth:	2,0 nm(UVS-2700) and 0,5-1,0-2,0 and 5,0 nm.(UVS-2800)	Scanning Speed:	1400nm/min.
Straylight:	0.2%T (220 nm and 340 nm)	Interface Card:	RS-232
Wavelength accuracy:	0.5 nm (with automatic wavelength correction)	Detector:	Dual Silicon photodiodes
Wavelength Reproducibility:	0.2 nm	Photometric Display:	-9999 ---- 9999
Photometric System:	The split-beam monitoring ratio system.	Photometric Noise:	< ±0.001Abs (500nm, 0Abs, 2nm Bandwidth).
Optical System:	The crossed monochromator with the high-resolution, diffraction holographic grating.	Slew rate of wavelength:	3600nm/min.
Photometric Method:	Transmittance, absorbance, energy, concentration	DNA/RNA Measurement:	Results Printout: Printing of measured data by using HP Deskjet 600/800 series (OPTIONAL)
Photometric Range:	-0.3~3.0 Abs (0~200%T)	Mainframe:	Compact and standalone mainframe
Photometric Accuracy:	0.002Abs (0~0.5Abs) , iA0.004Abs (0.5~1.0Abs) 0.3%T(0~100%T)	Light Source:	Socket Deuterium Lamp and Socket Tungsten
Photometric Reproducibility:	0.001Abs (0~0.5 Abs), 0.002Abs (0.5~1.0Abs), 0.15%T (0~100%T) -9999 ---- 9999	Sample Chamber:	Automatic eight-cell sample holder.
		Size:	22x16x10"
		Weight:	55 Lb.