



Spectro UV-VIS Double Beam PC Scanning Spectrophotometer

Model UVD-2960

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.

New UVWin 6.0 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:	0.0008Abs/h (2 hours warming up, 2nm Bandwidth, 500nm)
Spectral Bandwidth:	0.5, 1.0, 2.0 and 5.0 nm	Slew Rate of Wavelength:	3600nm/min
Resolution:	0.1nm	DNA/RNA Measurement:	Results Printout: Printing of measured data by using any Printer with Parallel Port connection available.
Straylight:	>2.10Abs (200nm)	Wavelength Accuracy:	±0.3 nm (with automatic wavelength correction).
Wavelength Accuracy:	±0.3 nm (with automatic wavelength correction).	Wavelength Reproducibility:	±0.2 nm
Wavelength Reproducibility:	±0.2 nm	Photometric System:	Double beam optical system
Photometric System:	Double beam optical system	Photometric Method:	Transmittance, absorbance, energy, concentration
Photometric Method:	Transmittance, absorbance, energy, concentration	Photometric Range:	-0.3~3.0 Abs (0~200%T)
Photometric Range:	-0.3~3.0 Abs (0~200%T)	Photometric Accuracy:	±0.002Abs (0~0.5A) , ±0.004Abs (0.5~1.0A), ±0.3%T (0~100%T)
Photometric Accuracy:	±0.002Abs (0~0.5A) , ±0.004Abs (0.5~1.0A), ±0.3%T (0~100%T)	Photometric Reproducibility:	±0.001Abs (0~0.5 A) , ±0.002Abs (0.5~1.0A), ±0.15%T (0~100%T),
Photometric Reproducibility:	±0.001Abs (0~0.5 A) , ±0.002Abs (0.5~1.0A), ±0.15%T (0~100%T),	Photometric Display:	-9999 ---- 9999
Photometric Display:	-9999 ---- 9999	Photometric Noise:	±0.001Abs (at 500nm, 2nm Spectral Bandwidth 0 Abs)
Photometric Noise:	±0.001Abs (at 500nm, 2nm Spectral Bandwidth 0 Abs)	Scanning Speed:	1400nm/min
Scanning Speed:	1400nm/min	Baseline Flatness:	±0.0015Abs (2000 nm. ~ 1100 nm.)
Baseline Flatness:	±0.0015Abs (2000 nm. ~ 1100 nm.)	Voltage:	110V-240V
Voltage:	110V-240V	Baseline Stability:	0.0008Abs/h (2 hours warming up, 2nm Bandwidth, 500nm)
Baseline Stability:	0.0008Abs/h (2 hours warming up, 2nm Bandwidth, 500nm)	Slew Rate of Wavelength:	3600nm/min
Slew Rate of Wavelength:	3600nm/min	DNA/RNA Measurement:	Results Printout: Printing of measured data by using any Printer with Parallel Port connection available.
DNA/RNA Measurement:	Results Printout: Printing of measured data by using any Printer with Parallel Port connection available.	Mainframe:	Compact and standalone spectrophotometer mainframe
Mainframe:	Compact and standalone spectrophotometer mainframe	Light Source:	Socket Deuterium Lamp and Socket Tungsten Halogen Lamp
Light Source:	Socket Deuterium Lamp and Socket Tungsten Halogen Lamp	Detector:	Double Beam
Detector:	Double Beam	Sample Chamber:	2 cell holder
Sample Chamber:	2 cell holder	Display:	Liquid Crystal Display (LCD 320/240 dot matrix)
Display:	Liquid Crystal Display (LCD 320/240 dot matrix)	Keypad:	Touch soft keys.
Keypad:	Touch soft keys.	PC Interface:	PC Interface: RS-232, USB
PC Interface:	PC Interface: RS-232, USB	Size:	22"x16"x10"
Size:	22"x16"x10"	Weight:	55 Lb
Weight:	55 Lb		