

Double Beam Spectrophotometer Technical Specifications

Wavelength <ul style="list-style-type: none"> • Range • Accuracy • Repeatability • Resolution • Bandwidth 	150 to 1100 nm ±0.5 nm ±0.2 nm 0.1 nm 1-2.0 nm
Photometric <ul style="list-style-type: none"> • Range • Accuracy • Repeatability 	±3 Abs ±0.003 Abs at 1.0 Abs ±0.005 Abs at 1.0 Abs
Baseline Flatness	Within ±0.003 Abs (excluding noises)
Scan Speed	Fast
Data Interval	Min. possible 0.4 nm
Sample Holder	5-position automatic positioning for sample cuvettes and 1 fixed position for reference cuvette
Source	Tungsten-Halogen and Deuterium lamp
Detector	Photo diode
Measuring Modes	Absorbance; % Transmittance; Concentration; Multi Component Analysis
Operating Modes	Single and multi-wavelength; Scan; Time Scan
Order Cut-off filter	Four glass filters, automatically positioned to eliminate grating spectral order interferences
Automatic calibrations/Optimisations	Source optimisation; Cell optimisations; Baseline, wavelength and electronic calibration
Data processing	Peak Pick/Valley Pick; Zoom (Expansion) of spectra; Averaging of two scans; Subtraction of two scans; Smoothing of spectra
Data Presentation	Display of graphic and tabular data on graphics LCD
Data Storage	For each operating mode five user defined files can be stored using memory backup
Printer Port	Compatible
Computer for the spectrophotometer	RAM 8GB, i5 processor, 1TB hard drive, 3 in 1 card reader (SD, SDHC, SDXC), DVD rider, 25-inch screen LCD