

Spectrophotometers

Model 6300 is a high quality, low cost measurement system for routine analysis. The 6300 is standard equipment for spectrophotometry applications in schools and colleges, as well as in QC and testing procedures for a wide variety of industries and service providers.

Model 6305 is ideal for similar applications requiring measurements in the UV/Visible wavelength range. Using a single, pulsed xenon lamp it offers an extended life, with higher energy in the UV region than traditional dual lamp systems.

Model 6310 introduces Scanning, Kinetics and Quantitation modes to this tried and tested format. Complete with method storage, supervisory control functions and a fully open operating system, the 6310 is ideal for routine testing in clinical, veterinary, pharmaceutical and QC laboratories.



	Model 6300 13910/01	Model 6305 13910/02
Product no	13910/01	13910/02
Wavelength Range	320-1000nm	198-1000nm
Resolution	1nm	1nm
Accuracy	±2nm	±2nm
Spectral Bandwidth	8nm	6nm over UV range
Ranges	0-199.9%T -0.300 - 1.999A -300 - 1999Conc	0-199.9%T -0.300 - 1.999A -300 - 1999Conc
Resolution	0.1%T, 0.001A, 0.1-1C	0.1%T, 0.001A, 0.1-1C
Stray light	<0.5%T	<0.5%T
Conc. units	ppm, mg/l, g/l, M, %, blank	ppm, mg/l, g/l, M, %, blank
Light sources	Tungsten halogen	Xenon lamp
Photometric Accuracy	±1%	±1%
Noise	<1%	<0.001A@0A@400nm
Stability	1%/hr after warm up	<0.002A/hr after 30minutes
Factor	0 - 999.9/1000/9999	0 - 999.9/1000/9999
Readout	Custom LCD	Custom LCD
Outputs	Analogue (0 - 1999mV) RS232 serial port	Analogue (0 - 1999mV) RS232 serial port
Input voltage	115/230V a.c. - 20% +10%	115/230V a.c. - 20% +10%
	50/60Hz	50/60Hz
Input power	<50W	<50W
Size (w x d x h)	365 x 272 x 160 mm	365 x 272 x 160mm
Weight	6Kgs	6Kgs

Models 6300 and 6305 are supplied with a pack of 100 10 x 10 mm plastic cuvettes, mains lead, 10 x 10 mm cuvette holder and instruction manual.

	Model 6310 13910/03
Wavelength Range	320-1000nm
Resolution	1nm
Accuracy	±2nm
Spectral Bandwidth	8nm
Absorbance	-0.300 - 1.999A
Transmittance	0 - 199.9%T
Concentration	-300 - 1999Conc.
Selectable resolution	1, 0.1, 0.01, or 0.001
Calibration	Blank with a single standard or factor
Memory	50 methods
Quantitation	-300 - 199Conc.
Selectable resolution	1, 0.1, 0.01, or 0.001
Calibration	Blank with up to 6 standards
Curve correction	Linear regression, interpolation or linear regression through zero
Memory	50 methods including calibration curve
Kinetics	Graphical and calculated concentration valve
Calibration	Against standard and factor
Correction factor	r squared value displayed with results
Spectrum	any range between 320 and 1000nm
Scan data interval	1, 2 or 5nm selectable
Analysis valleys	Absorbance and wavelength of peaks and
Memory	50 methods and 5 scans
GLP	-Real time clock and calendar -Operator ID -Supervisor security (locks all set up parameters) -Method display lock
Outputs	Analogue and RS232 serial
Input Voltage	115/230V a.c. -20% +10% 50/60Hz
Input power	<50W
Size (w x d x h)	365 x 272 x 160 mm
Weight	6kgs

Models 6310 are supplied with a pack of 100 10 x 10 mm plastic cuvettes, mains lead, 10 x 10 mm cuvette holder, interface cable and instruction manual.