



6305 UV/VISIBLE RANGE SPECTROPHOTOMETER

The 6305 UV/Visible Range Spectrophotometer is a high quality 6nm band pass, non-scanning, low cost measurement system for routine analysis. The photometric result, as Absorbance, Concentration or Transmittance, is displayed along with a user selectable wavelength of 198 to 1000nm (at 1nm intervals). A large cell chamber allows use with cuvettes from 10 to 100mm path length. **INCLUDES COMPLETE SET OF FUN-Science EXPERIMENTS AND 24/7 TECHNICAL AND APPLICATIONS SUPPORT (ONLY AVAILABLE THROUGH EDU-CHEM).**



Features include:

Dual Display A customized Liquid Crystal Display gives simultaneous readout of wavelength and %Transmittance, Absorbance or Concentration. Concentration can be found by calibration to a standard or by direct factor entry.

Ease Of Use The simple keypad layout and operating protocols are designed to enable reliable operation by unfamiliar users. Photometric calibration, including 0% Transmittance is performed by a single key press.

Comprehensive Specification The 6305 Spectrophotometer boasts an impressive optical performance for a product of this type. Stray light is minimized by the automatic activation of internal filters, whilst the narrow 8nm bandwidth provides the high degree of selectivity essential for most analytical applications. A precision stepper motor gives excellent positional control of the optical grating ensuring wavelength selection is both accurate and highly repeatable.

Fully GLP Compliant The 6305 Spectrophotometer is supported by traceable calibration standards to provide the on-going assurance of accuracy required by Good Laboratory Practice (GLP). A wavelength calibration routine is performed at switch on and a 0%T setting is performed automatically during all calibration routines.

Full Interfacing Capability There is full RS232 interfacing for connection, via industry standard connectors to printer or PC using 63Zero PC software. Results can be transferred to a PC by a single touch of the print key. The bi-directional interface also allows remote interrogation and control of the 6305 Spectrophotometer. An analog output is provided for connection to a chart recorder.

Additional Features of the 6305 The unique xenon lamp in the 6305 has the advantage of offering a broad spectral source and a guaranteed life of 3 years. NOTE: The Xenon lamp is warranted for 1 year. This enables the running costs for the 6305 to be minimized over the lifetime of the spectrophotometer since there is no deuterium and tungsten lamps to replace. The key feature of the xenon lamp is that 40% of the energy of the lamp is emitted below 400nm, with a maximum intensity of 260nm. This means an extra 5-10 times energy in the UV region compared to deuterium lamps and just where you need it for protein peptide or DNA study work.

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Wavelength	
Range	198 - 1000nm
Resolution	1nm
Accuracy	±2nm
Bandwidth	6nm
Absorbance	
Range	-0.300 to 1.999A
Resolution	0.001A
Transmittance	
Range	0 to 199.9%
Resolution	0.1%
Stray Light	<0.5% @ 340nm
Photometric Accuracy	±1%
Concentration	
Range	-300 to 1999 Concentration
Resolution	0.1 / 1
Units	ppm, mg/l, g/l, M, %, blank
Factor	0 to 999.9, 1000 to 9999
Photometric Noise Levels	<1%
Photometric Stability	1%/Hour after warm-up
Readout	Custom Liquid Crystal Display
Outputs	Analog (0 to 1999mV) / RS232 serial port
Light Source	Xenon Lamp module
Input Voltage	115/230V AC -20% +10%
Size (inches)	14 x 11 x 6
Weight	6Kgs
Warranty	3 years parts and labor (xenon lamps 1 year)