

Spectrophotometers

Model M501

Camspec

Microprocessor controlled, single beam, scanning UV/Vis spectrophotometer.

- ◆ Range 190 to 1100nm
- ◆ Operating modes: Basic (A, %T and C), Quantitative, wavelength scan, Kinetics, DNA/Protein, multi-wavelength, custom
- ◆ Bandpass 4nm
- ◆ Adjustable scan speeds and intervals
- ◆ 1/4 VGA backlit graphics LCD
- ◆ Centronics printer output and bi-directional RS232 port
- ◆ GLP self-calibration routines
- ◆ Automatic blanking at the measurement wavelength
- ◆ Non-volatile memory stores up to 50 methods/results

Catalogue No.	SJ245-20	
Model	M501	
Wavelength	range nm	190 to 1100
	accuracy nm	±1
	resolution nm	0.1
	repeatability nm	±0.05
Zero drift	A	<3 per hour after warm up
Baseline flatness	A	±2
Bandpass	nm	4
Photometric accuracy	Better than 1% at 0.5A, 1A, 2A	
Photometric range	-0.7 to 3A, 0 to 200%T, 0 to 9999 Conc.	
Unit selection	mg/l, mg/ml, mg/l, g/l, ppb, ppm, %, I.U., mM/l, M/l, custom via keypad	
Scanning speed	75 to 2000nm/min. in 3 levels (high, medium and low)	
Scanning interval increments nm	0.1, 0.2, 0.5, 1, 2, 5	
Outputs	Centronics printer, bi-directional RS232	
Cell centre height	mm	15
Light source	Tungsten halogen and deuterium	
Dimensions H x W x D	mm	270 x 550 x 420
Weight	kg	18

Quantitative Mode

Up to 10 standard solutions may be used for a calibration, 3 types of correction methods available: single wavelength, iso-absorbance or 3-point. Choice of 4 methods for curve fitting: Linear fit, linear fit through zero, square fit, cubic fit.

Kinetics Mode

For course scanning or reaction rate calculations. Absorption v time graphs displayed in real-time. Wait and measurement times up to 8.3 hours can be entered with intervals of 0.5, 1, 2, 5, 10, 30 secs and 1 minute.

DNA/Protein Mode

Concentration and DNA purity are calculated: Abs ratios 260/280nm or 260/230nm with optional subtracted absorbance at 320nm. Alternative wavelengths/factors may be entered.

Multi-wavelength Mode

Up to 10 wavelengths may be entered, allowing measurement of multiple wavelengths on a series of samples.

Spectrophotometer, M501

As described. Supplied with manual cell changer for 4 x 10mm square cuvettes, 4 x glass 10mm cuvettes, 2 x 10mm silica cuvettes, mains lead, dust cover and user manual. For 115V, 230V 50/60Hz single phase supplies.

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Spares and accessories

SJ246-03 Tungsten-halogen lamps, pack of 2

SJ246-07 Deuterium lamp, pre-aligned

SJ246-11 Test tube holder for single tubes, 8 to 25mm dia.

SJ246-18 Thermostatted cell holder for 10mm square cuvettes (requires connection to external circulator/bath)

SJ246-22 Peltier temperature controller and cell holder for 10mm cuvettes, 15 to 40°C



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