



Spectronic Camspec Ltd

# The M508 Basic Programmable UV-Vis Spectrophotometer

## MAIN FEATURES

- Stepper motors for wavelength and filters
- Stores up to 200 methods/results
- Concentration calibration: up to 8 standards and up to 3 replicates, linear or linear through zero
- Selectable wavelength calibration and dark current measurement
- 200 - 1000nm wavelength range
- 5nm bandwidth
- Low stray light (0.1%T at 220nm and 340nm)
- Large sample compartment (up to 100mm pathlength cells)
- 2 x 10mm UV cells and 4 x 10mm glass cells included
- Large selection of accessories
- Manual 4-cell changer
- PC Application Software option for concentration curves, timescan and wavelength scanning
- USB socket for PC Control and RS232 serial output for printer
- Data output includes method number and name, wavelength, date and time, %T, Abs, concentration,
- Test Tube holder
- And many more accessories



## Technical Specifications

Display	4 lines x 20 character LCD LCD
Light sources	Tungsten-Halogen and Deuterium
Monochromator	1200 lines/mm grating
Detectors	Silicon Photodiode
Wavelength Range	200 - 1000nm
Wavelength Accuracy	± 2 nm
Wavelength Resolution	
Wavelength Repeatability	± 1 nm
Noise	< 0.001A @ 500nm 0A
Zero Drift	< 0.003A per hour after warm-up
Baseline Flatness	
Bandpass	5 nm
Stray Light	<0.1%T @ 220nm and 340 nm
Photometric Accuracy	+/- 1% 0-2 A
Photometric Range	-1 to 2.5A, 0-125%T and -9999C and +9999C
Printer Interface	RS 232 for printer
Computer Interface	USB for PC control
Power Requirements	110/120V, 220/230V, 50/60 Hz, 135VA
Dimensions	510 x 420 x 210 packed 645 x 535 x 370
Weight	14Kg packed 17Kg

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## User Interface

The user interface of the M508 Single Beam Spectrophotometer includes Basic Mode (Abs, %T, Conc), Quantitative (concentration calibration curves), Wavelength Scanning, Kinetics (including timedrive), DNA/Protein, Multi-wavelength, and Performance Validation. In Basic Mode, the result is continuously displayed (no need to "press to read")

## PC Control

The M508 has an RS232C output for the transfer of results to a PC and for PC control of the M508. Comprehensive Camspec Application Software is available, together with small PC programs, dedicated to specialist tasks.

## A selection of the many Cell compartment Accessories available

Test-tube holder (100mm) P/N 501-101

Adjustable micro-cell holder P/N 501-102 (illustration)

4 x 10mm manual cell changer P/N 501-114

4-cell holder for 5-50mm cells P/N 501-104 (illustration)

4-cell holder for 100mm cells P/N 501-103 (illustration)

100mm cylindrical cell holder P/N 501-106

Thermostatted single cell holder (requires water bath) P/N 508-105 (illustration)

Sipper, processor controlled P/N 508-121

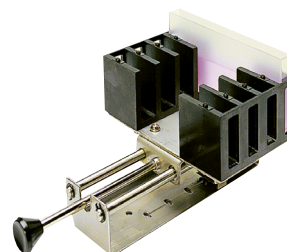
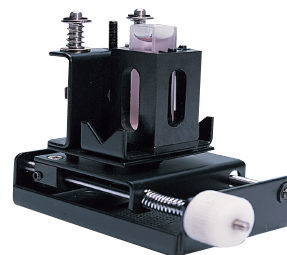
Peltier system for 10mm cells, 15-40°C P/N 508-123

Peltier/Sipper system combined P/N 508-124 (illustration)

Calibration standards for wavelength, absorbance, stray light (traceable to NPL)

Optional Built-in 40 character thermal printer P/N 508-101

M508/M108 PC application system software (including PC cable) P/N 108-110



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