

Camspec

The M550 UV-Vis True Double Beam Scanning Spectrophotometer

This is a true double beam instrument with parallel sample and reference beams. The specification is as expected from a top-of-the-range instrument designed for research as well as routine use. The M550 conforms to all current US & European Pharmacopoeia guidelines.

Two silicon photodiodes are used for measuring the two beams simultaneously for optimising measurement accuracy and stability. The reference beam is especially useful for measuring samples where the reference changes with time. The M550 uses a very easy-to-replace tungsten-halogen lamp, and a pre-aligned long-life deuterium lamp.



Technical Specifications for the M550 UV/VIS Spectrophotometer

Display	LED Display
Light sources	Tungsten-Halogen and Deuterium
Monochromator	Littrow type with 1200 lines/mm grating
Scan Speed	Up to 2500 nm/min (return 3000nm/min)
Detector	Silicon Photodiodes
Wavelength Range	190 - 1100nm
Wavelength Accuracy	± 0.3nm
Wavelength Resolution	0.1nm
Wavelength Repeatability	± 0.05nm
Baseline Flatness	± 0.002 (After 1 Hr warm up 1100 – 200nm)
Zero Drift	< 0.001A per hour after warm-up
Noise	± 0.0001A @ 500nm 0A
Bandpass	1.5nm
Stray Light	KCl >2A at 198nm <0.05%T @ 220nm & 340nm
Photometric Accuracy	± 0.5% at 0.5A, 1.0A and 2.0A
Photometric Range	-0.3 to 3A, 0 to 200%T, 0 to 9999 Conc
Printer Interface	Parallel for A4 HP and Epson printers
Computer Interface	USB for PC control plus USB for data export
Power Requirements	110/120V, 220/230V, 50/60 Hz, 110VA
Dimensions	630 x 410 x 280mm packed 770 x 560 x 410
Weight	24kg packed 28Kg

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User Interface

The user interface is almost the same as that of the popular M501 Single Beam Spectrophotometer and includes Basic Mode (Abs, %T), Quantitative (concentration calibration curves), Wavelength Scanning, Kinetics (including timedrive), DNA/Protein, Multi-wavelength, and Performance Validation. The M550 stores up to 50 methods/results. In Basic Mode, the result is continuously displayed (no need to "press to read")

PC Control

The M550 has an USB output for the transfer of results to a PC and for PC controls of the M550. Comprehensive Camspec Application Software is available, together with small PC programs, dedicated to specialist tasks.

Pharmaceutical Analysis

The M550 is European Pharmacopoeia 6.2 compliant. It passes the Potassium Chloride stray light test, the Toluene in Hexane resolution test, the Holmium Perchlorate solution wavelength test and the Potassium Dichromate absorbance test.

A selection of the many Cell Compartment Accessories available

Micro cell holder



Peltier / sipper

0-50 mm 4 x cell
Manual



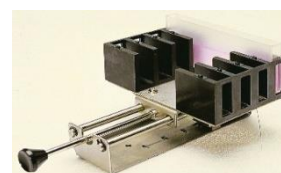
6 cell auto changer

Test tube



8 cell auto changer

0-100 mm 4 x cell
Manual changer



Thermostatted Single
Cell holder



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