# Camspec

## M501 UV-Visible Single Beam Scanning Spectrophotometer

**OPERATING FEATURES:**

- **Local Control Software - All methods are included**
- **Basic Mode - Measures Absorbance, %T and Concentration.**
- **Quantitative – Up to 10 standard solutions maybe used for a calibration**
- **Wavelength Scanning**
- **Kinetics - For time course scanning or reaction rates**
- **DNA/Protein – Concentration & DNA Purity are calculated**
- **Multi-wavelength - up to 10 wavelengths**
- **Performance Validation - for the GLP compliant laboratory**

| Technical Specifications for the M501 UV/VIS Spectrophotometer | |
|---|---|
| **Display** | **LED Display** |
| **Light sources** | **Tungsten-Halogen and Deuterium** |
| **Monochromator** | **Littrow type with 1200 lines/mm grating** |
| **Detector** | **Silicon Photodiode** |
| **Wavelength Range** | **190 - 1100nm** |
| **Wavelength Accuracy** | **± 1nm** |
| **Wavelength Resolution** | **0.1nm** |
| **Wavelength Repeatability** | **± 0.05nm** |
| **Baseline Flatness** | **± 0.005 (After 1 Hr warm up 1100 – 200nm)** |
| **Zero Drift** | **< 0.003A per hour after warm-up** |
| **Baseline Stability** | **± 0.001A** |
| **Bandpass** | **4nm (2nm option)** |
| **Stray Light (A.S.T.M.)** | **<0.05%T @ 220nm and 340nm** |
| **Photometric Repeatability** | **± 0.002 Abs** |
| **Photometric Accuracy** | **Better than 1% @ 0.5A, 1A, 2A** |
| **Photometric Range** | **-0.7 to 3A, 0 to 200%T, 0 to 9999 Conc** |
| **Printer Interface** | **Centronic parallel for A4 inkjet printers** |
| **Computer Interface** | **USB Port** |
| **Power Requirements** | **110/120V, 220/230V, 50/60 Hz, 110VA** |
| **Dimensions** | **550 x 420 x 270 packed size 645 x 535 x 370** |
| **Weight** | **18kg Nett 24Kg Packed weight** |

## User Interface

The user interface of the M501 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")
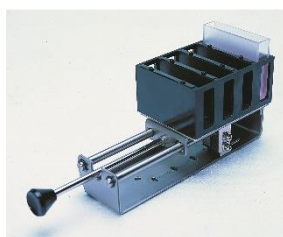
## PC Control

The M501 has 2 x USB2 outputs. One for the download of data to a USB Memory stick to be analysed offline and one for the control of the spectrophotometer when the UV/VIS Analyst software is purchased. Comprehensive Camspec Application Software is available, together with small PC programs, dedicated to specialist tasks.

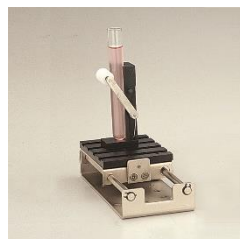### A selection of the many Cell compartment Accessories available
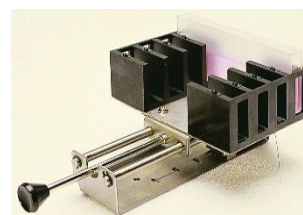
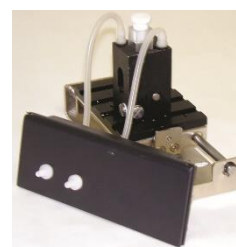| Micro cell holder | 0-50 mm 4 x cell Manual | Test tube | 0-100 mm 4 x cell Manual changer |
|---|---|---|---|
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| **Peltier / sipper** | **6 cell auto changer** | **8 cell auto changer** | **Thermostatted Single Cell holder** |
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