

M106 Spectrophotometer

This robustly built spectrophotometer combines a surprisingly high level of performance with a budget price. Wavelength is conveniently set using the rotary control and the instrument is ready for use within just a few minutes from switch-on. A membrane keyboard positioned next to the large, clear LCD display allows the operator to rapidly switch between %T, Abs and Concentration modes, and to set Zero Abs. The narrow 10nm bandpass is ideally matched to the wavelength range of 335 to 1000nm.

The remarkable stability and accuracy of the instrument will be welcomed by quality control and teaching laboratories. The sample compartment accepts either standard 10mm rectangular cuvettes, including disposable semi-micro cuvettes, or test-tubes. The USB output provides a convenient link to a PC, and an RS232 socket for a digital printer. A low-cost application program, which runs under Windows 10, 9x, Xp, 7, or 8, includes the facility to create calibration curves on screen.

Specifications

- Display - LCD Display
- Light source - Tungsten-Halogen
- Monochromator - 1200 lines/mm grating
- Detectors - Silicon Photodiode
- Wavelength Range - 335 - 1000nm
- Wavelength Accuracy - ± 2 nm
- Wavelength Repeatability - ± 1 nm
- Noise - < 0.001A @ 500nm 0A
- Zero Drift - < 0.003A per hour after warm-up
- Bandpass - 10 nm
- Stray Light - <0.1%T @ 340 nm
- Photometric Accuracy - +/- 1% 0-1 A
- Photometric Range - 0 to 2A, 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, 60VA
- Dimensions - 408 x 308 x 185mm packed 645 x 535 x 370mm
- Weight - 6Kg packed 9Kg

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