



Spectrophotometer double beam UV/Vis

Code HJD007 | Model 4260/50

Advanced and complete device that allows to perform all types of analysis (quantitative, kinetic, wavelength scan, DNA/Protein, and multi-wavelength) being of great application in clinical and research laboratories. Its excellent performance ensures precise and accurate readings.

- Adjustable bandwidth 0.5, 1, 2, 4 or 5 nm
- Large LCD display
- Sample compartment to accommodate 10 mm path length cuvettes (sample and reference). It also includes 4 glass cuvettes and 2 quartz cuvettes with 10 mm light path length.
- The instrument is supplied with Windows-based UV/Vis Analyst software.
- Time interval (0.5, 1, 2, 5, 10, 30 or 60 s)
- Subsequent analysis of the result with curve tracking and selection of the region required for reaction rate calculation.



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Model	4260/50
Optical system	Double beam, 1200 lines/mm grid
Wavelength range	190-1100 nm
Wavelength accuracy	±0.3 nm
Wavelength repeatability	0.2 nm
Wavelength swing speed	High, medium, low, max.: 3000 nm/min.
Light source	Tungsten, Deuterium
Spectral bandwidth	0.5/1/2/4/5 nm
Modes	Quantification, Wavelength scan, Kinetics, DNA/Protein, Multiple wavelength
Detector	Silicon photodiode
Photometric range	-0,3-3 A, 0-200 %T, 0-9999.9 C
Sample holder	10 mm cuvettes (sample and reference)
Display	LCD, 5 inches
Storage	USB-A, USB-B (PC) and parallel port (printer)
Interface	110VAC, 60Hz / 220VAC, 50Hz (manual switch)
Dimensions (LxWxA)	589x428x200 mm
Weight	22 kg



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Functions

Quantification

- Up to 10 standard solutions can be used to establish the equation of the standard concentration curve.
- 4 fitting methods (linear by zero, linear, quadratic, cubic)

Wavelength scan

- Scan speed is optional (low, medium, high)
- Range optional (0.1, 0.2, 0.5, 1, 2, 5 nm)
- Wavelength are scanned from longer to shorter wavelength to minimise degradation of UV-sensitive samples.
- Further analysis of the result with axis re-scaling, curve tracking and peak finding.

Kinetics

- Measurements over a time interval and calculation of reaction rates. Real-time Abs/Time graph is displayed on the screen.
- Time interval (0.5, 1, 2, 2, 5, 10, 30 or 60 s)
- Further analysis of the graph allows re-scaling, curve tracking and selection of part of the curve needed for rate calculation.

DNA/Protein

- Calculation of concentration and purity of nucleic acids
- Ratios (260/280, 260/230)

Multiple wavelength

- Sample analysis at different wavelengths (max. 10) to analyse sample composition.