



Zuzi Spectrophotometer

Code HJD004 | Model 4255/50

Sophisticated and complete device that allows all types of analysis (quantitative, kinetic, scanning, etc.) to be carried out, making it ideal for use in clinical and research laboratories. Its excellent performance ensures precise and accurate readings.

- Precise selection of the working wavelength via the keypad.
- Large LCD display (128x64 bits) easy to read.
- Sample compartment with manual external heat exchanger to accommodate up to 4 cuvettes with 10 mm light path.
- Visible and UV lamps can be switched on and off separately to extend their lifetime.
- The instrument can be controlled by a computer using the UV/Vis Analyst software (not included reference: HJH009).



Code	HJD004
Model	4255/50
Optical system	Single beam, 1200 lines/mm grid
Wavelength range	190-1100 nm
Wavelength accuracy	±0.5 nm
Wavelength repeatability	0.3 nm
Wavelength display	±0.1 nm
Wavelength swing speed	High, medium, low, max.: 3000 nm/min.
Light source	Tungsten, Deuterium
Spectral bandwidth	2 nm
Detector	Silicon photodiode
Photometric range	-0,3-3 A, 0-200 %T, 0-9999.9 C
Sample holder	For 4 x 10 mm cuvettes
Display	LCD
Storage	USB port, parallel port (printer)
Interface	110VAC, 60Hz / 220VAC, 50Hz (manual switch)
Dimensions (LxWxA)	490x360x160 mm
Weight	16 kg



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Functions

Basic

- Measurement of absorbance and transmittance at a given wavelength and basic quantitative mode

Quantification

- Calculation of concentrations using linear, quadratic, or cubic curves.
- Two ways to establish a standard curve: by entering the coefficients k and b , when the equation of the curve is known, or by measuring up to 10 standard samples of known concentration.

Wavelength scan

- The speed is optional (low, medium, high).
- Range optional (0.1, 0.2, 0.5, 1, 2, 5.0 nm)
- Sweep from longer to shorter wavelengths to minimize degradation of UV-sensitive samples.
- Post analysis of the result with scan curve tracing and calculation of peaks and troughs

Kinetics

- Analysis over time and calculation of enzyme reaction rates with the possibility of time delay programming
- Time interval (0.5, 1, 2, 5, 10, 30 or 60 s)
- Subsequent analysis of the result with curve tracing and selection of the region required for reaction rate calculation.

DNA/Protein

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

Multiple wavelengths

- Analysis of samples at different wavelengths (max. 10) to analyse sample composition.

