



## Zuzi Spectrophotometer

Code HJD002 | Model 4211/50

An instrument that allows precise measurements in the ultraviolet and visible regions of the spectrum. It is used in research laboratories for qualitative (absorbance and transmittance measurements) and quantitative (calculation of concentrations) analyses.



### Main features:

- Precise selection of the working wavelength via the keypad.
- Large LCD display (128x64 bits) easy to read.
- Sample compartment with manual external heat exchanger for up to 4 cuvettes with 10 mm light path length.
- The instrument can be controlled by a PC using the MWave Basic software (included). It is compatible with the MWave Professional software, which extends the features (not included).

### Functions:

- Basic mode: measurement of absorbance and transmittance at a given wavelength.
- Quantitative mode: calculation of the concentration of different samples from the equation of a standard curve ( $C=k \cdot A + b$ ). Two methods:
  - Coefficient: the value of the coefficients  $k$  and  $b$  of the equation are entered directly via the keyboard.
  - Standard curve: up to 9 standard samples can be used to establish the equation of the standard curve.

Reference	HJD002
Model	4211/50
Optical system	Single beam, 1200 lines/mm grid
Wavelength range	200-1000 nm
Wavelength accuracy	$\pm 2$ nm
Wavelength display	$\pm 0.1$ nm
Light source	Tungsten, Deuterium
Spectral bandwidth	4 nm
Detector	Silicon photodiode
Photometric range	0-200%T, -0.3 - 3A
Sample holder	For 4 x 10 mm cuvettes
Display	LCD
Interface	USB port, parallel port (printer)
Power	110VAC 60Hz / 220VAC 50Hz (Manual switch)
Dimensions (LxWxA)	490x360x210
Weight	12 kg