

SPECTROPHOTOMETRY  
OPTIMISED FOR THE  
TEACHING LABORATORY

## WPA S800 Spectrawave

Visible Diode Array Spectrophotometer

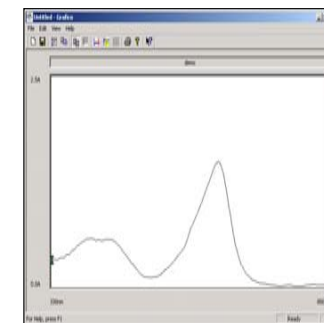
- Absorbance, % transmission, concentration and rate
- Large, easy to read display
- Grafico PC utility software
- Educational experiments and UV/Visible tutorial
- Analogue output for connection to chart recorder

The S800 visible spectrophotometer has been designed to meet the needs of both students and technical staff in education. The instrument is small and light in weight with a large display for ease of reading.

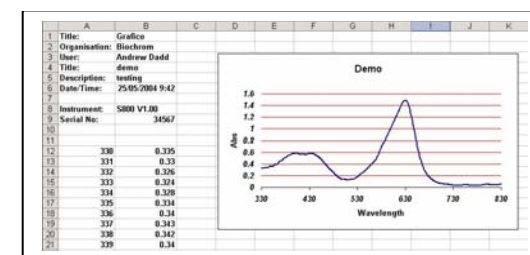


The S800 measures absorbance, % transmission and concentration as well as being able to output absorbance–time plots directly to chart recorder. In addition, the user manual includes simple experiments for the determination of  $\lambda$  max, extinction coefficient and natural bandwidth as well as the construction of a standard curve and the measurement of stray light. Furthermore, the instrument is delivered with Grafico, a PC utility software package, and the requisite serial lead, providing the student with the means to capture, print and interpret a wavelength scan from the instrument on a PC; the data for the scan or other results can be easily exported from Grafico to Excel. Note that Grafico also includes an educational tutorial on UV/Visible spectrophotometry.

The S800 accepts standard 10mm pathlength glass or plastic cuvettes; alternatively; a test tube adapter set is available. The cell holder can be removed for cleaning. The instrument is delivered with a starter pack of disposable plastic cuvettes.



Typical scan output viewed using Grafico



The same scan exported to Excel

## VISIBLE SPECTROPHOTOMETER OPTIMISED FOR THE TEACHING LABORATORY

### Ordering Information

Description	Part Number
WPA S800 visible spectrophotometer	80-3003-50
<b>Accessories</b>	
Test tube adapters (10, 12, 16mm)	80-2117-47
Spare lamp	80-2115-33
Spare serial cable	80-3001-00
Chart recorder interface cable	80-3003-55
S1000P printer including cable	80-3002-53
Speccas calibration filter set	Enquire
<b>Cells</b>	
Acrylic, pack of 100 (volume 2.5ml)	80-2004-53
Polystyrene, pack of 100 (volume 1.5ml)	80-2084-11
Glass, standard rectangular with lid (volume 2.5ml)	80-2003-87
Glass, semi-micro with lid (volume 750 µl)	80-2004-15



*Test tube adapters*

### Technical Specification

Light source	Tungsten
Optical system	Single beam, Monochromator
Wavelength range, nm	330 – 800nm
Absorbance range, A	-0.3 to 2.500
Bandwidth	7nm
Stray light	<1%T at 340nm
Stored methods	Not applicable
Wavelength accuracy	± 2nm
Photometric reproducibility	± 0.002A at 0-0.5A, 546nm
Photometric accuracy	± 0.01A at 1A
Outputs	RS 232 digital Adapter available for analogue use (1V per 1Abs, ± 10%)
Dimensions (WxDxH)	215 x 270 x 120mm
Weight	< 2 kg

Distributor information:

*All products are CE marked and comply with relevant legislation, including EMC and low voltage directives. All products come with a one year warranty. As part of our policy of continuous instrument development, we reserve the right to alter specifications without notice.*

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