

DESIGNED TO MAKE  
SPECTROPHOTOMETRY EASIER

## WPA S1200 Spectrawave

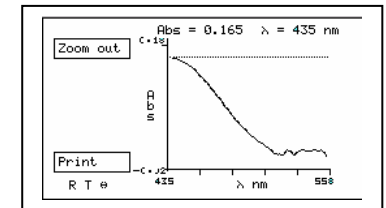
### Visible Diode Array Spectrophotometer

- Simple menu driven software
- Stored cell culture OD600 and protein method routines
- Wavelength scan, kinetics and standard curve functionality with full graphics
- Comprehensive 99 method storage
- Grafico PC utility software

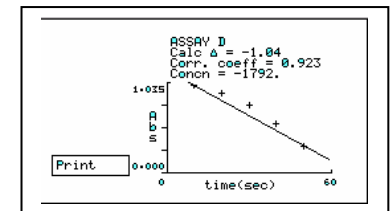
The S1200 Spectrawave visible diode array spectrophotometer has been designed to meet the routine spectroscopy needs of customers requiring a small, light weight instrument that is easy to use. The benefits of diode array technology include the facts that as there are no moving parts there is both high reliability and low maintenance; also, since the sample compartment is open, there is no restriction on the height of test tubes that can be inserted.

Compared to equivalent units on the market, the S1200 offers so much more; ideal for use in educational, biotech or industrial establishments, the S1200 measures absorbance, % transmission, absorbance ratio and concentration. The large backlit graphical display enables wavelength scans, kinetic assays (including slope calculation) and standard curves to be viewed. The instrument is delivered with Grafico, a PC utility software package, and the requisite serial lead, providing the user with the means to capture, print and store data from the instrument onto a PC so that a results log may be built up or data exported to Excel. Alternatively graphics may be printed to either the S1000P or the industry standard Seiko DPU-414 printer for a permanent record plus kinetics data may be output to chart recorder.

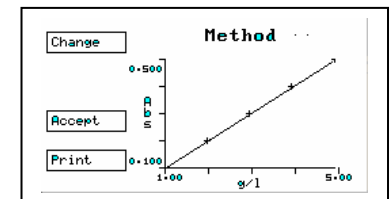
The S1200 accepts standard 10mm pathlength glass or plastic cuvettes; a test tube adapter set is available, and this enables COD measurements to be made using standard 16mm diameter test tubes. The cell holder can be removed for cleaning. Another version of the instrument, the WPA S1200T, is available which has a factory fitted electrically heated cell holder for thermostatted measurements at 37 C.



Wavelength scan



Kinetics assay



Standard Curve

## Ordering Information

Description	Part Number
WPA S1200 visible spectrophotometer	80-3003-58
WPA S1200H visible spectrophotometer with heated cell holder	80-3003-59
<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
Seiko DPU-414 printer	Enquire
Serial lead for Seiko printer	80-2115-29
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

<b>Title:</b>	Grafico		
<b>Organisation:</b>	Biochrom		
<b>User:</b>	Andrew Dadd		
<b>Title:</b>	demo		
<b>Description:</b>	testing		
<b>Date/Time:</b>	25/05/2004 9:47:05 AM		
<b>Instrument:</b>	S800 V1.00		
<b>Serial No:</b>	34567		
<b>405 nm</b>	<b>0.011 Abs</b>	<b>09:47</b>	<b>25/05/04 [dd/mm/yy]</b>
<b>405 nm</b>	<b>0.241 Abs</b>	<b>09:48</b>	<b>25/05/04 [dd/mm/yy]</b>
<b>405 nm</b>	<b>0.587 Abs</b>	<b>09:48</b>	<b>25/05/04 [dd/mm/yy]</b>
<b>405 nm</b>	<b>25 %</b>	<b>09:51</b>	<b>25/05/04 [dd/mm/yy]</b>
<b>405 nm</b>	<b>12 %</b>	<b>09:52</b>	<b>25/05/04 [dd/mm/yy]</b>
<b>405 nm</b>	<b>2 %</b>	<b>09:52</b>	<b>25/05/04 [dd/mm/yy]</b>

Typical data log output from Grafico

## 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	99
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 1A, ± 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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Biochrom is a Harvard Bioscience company

