



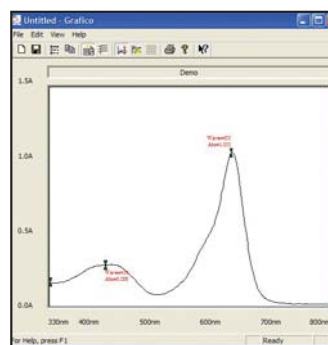
## Libra S4 Visible spectrophotometer

- Absorbance, % Transmission, Concentration and Rate
- Educational experiments and UV/Visible tutorial
- Analogue output for connection to chart recorder
- Grafico PC utility software

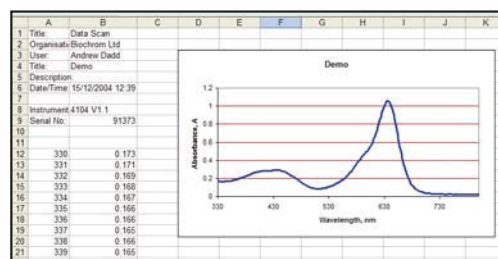
The **Libra S4** visible spectrophotometer is the ideal instrument for education and QC laboratories. The instrument is compact, lightweight and ergonomically designed for the simpler applications. There is a large display for ease of reading plus a very simple user interface for rapid set up and analysis. For educational purposes, the user manual includes simple experiments for the determination of  $\lambda$  max, extinction coefficient and natural bandwidth plus the construction of a standard curve and the measurement of stray light.

The Libra S4 measures Absorbance, % Transmission and concentration as well as being able to output absorbance-time plots directly to chart recorder. The instrument is delivered with Grafico PC utility software package and a 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 may be easily exported from Grafico to Excel. Note that Grafico also includes an educational tutorial on UV/Visible spectrophotometry.

The Libra S4 accepts standard 10mm pathlength glass or disposable cuvettes. A test tube adapter set is available for 10, 12 and 16mm. In the event of a spill, the cell holder may be removed for cleaning. The instrument is delivered with a starter pack of disposable cuvettes.

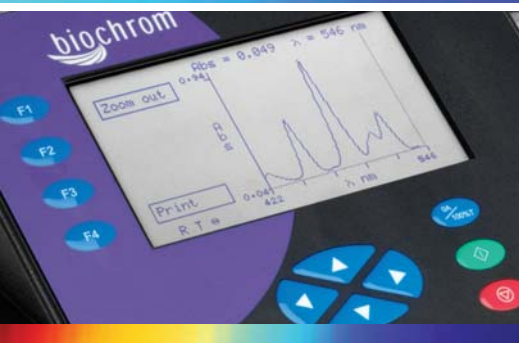


Typical scan output viewed using Grafico; note that peaks may be labelled



The same scan exported to Excel

Instrument	Part number	Lamps	Optics	Wavelength range, nm	Absorbance range, A	Bandwidth, nm
Libra S4	80-5000-00	Tungsten	Diode array	330-800	-0.3 -2.5	7



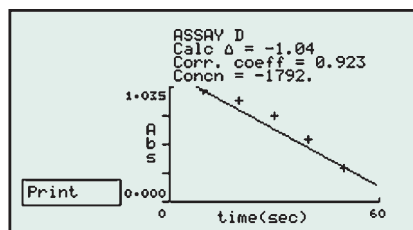
## Libra S6 Visible spectrophotometer

- “Flash Scan” diode array
- Simple menu driven software
- Comprehensive 99 method storage
- Wavelength scan, kinetics and standard curve functionality with full graphics
- Grafico PC utility software

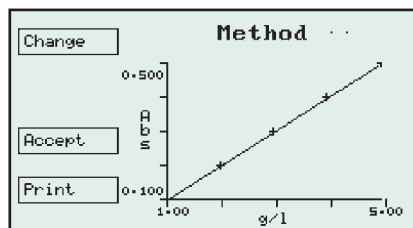
The **Libra S6** visible diode array spectrophotometer has been designed to meet the routine spectroscopy needs of customers requiring a compact, light weight instrument that is easy to use and which includes far more features than similar priced products. The Libra S6 measures Absorbance, % Transmission, Absorbance ratio, Concentration and Kinetics. A large backlit graphical display enables wavelength scans, kinetic assays (including slope calculation) and standard curves to be viewed. The instrument is delivered with Grafico PC utility software package and a serial lead, to facilitate transfer of results to computer. Alternatively, graphics may be printed to either the S1000P or the industry standard Seiko DPU-414 printer plus kinetics data may be output to a chart recorder.

The Libra S6 accepts standard 10mm pathlength glass or disposable cuvettes. A test tube adapter set is available for 10, 12 and 16mm (COD measurements can be made using standard 16mm tubes). The cell holder may be removed for cleaning or decontamination. Another version

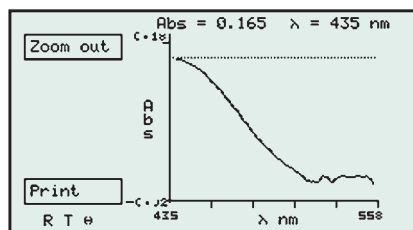
of the instrument, the Libra S6H, is available with a factory fitted electrically heated cell holder for thermostatted measurements at 37°C.



Kinetics assay



Standard curve



Wavelength scan

Instrument	Part number	Lamps	Optics	Wavelength range, nm	Absorbance range, A	Bandwidth, nm
<b>Libra S6</b>	80-5000-10	Tungsten	Diode array	330-800	-0.3 -2.5	7
<b>Libra S6H</b> with heated cell holder	80-5000-11	Tungsten	Diode array	330-800	-0.3 -2.5	7