

Ultrospec 3000 pro UV/Visible Spectrophotometer

Output to Printer

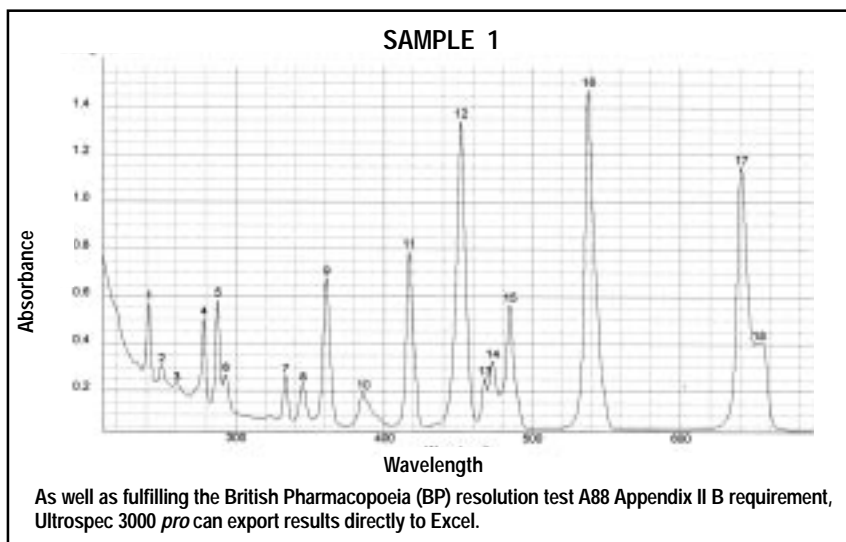
Ultrospec 3000 *pro* prints to a range of popular printers with the Centronics interface, enabling a printed record of results, and GLP print outs, to be kept for filing. There are built in printer drivers enabling the output of graphics to generic printer types; Seiko DPU-414, Epson FX and similar, Epson Stylus and similar and HP DeskJet and LaserJet. The combination of the instrument with a printer stand and the Seiko DPU-414 thermal printer will be welcomed in those demanding laboratory environments which require high performance but where bench space is at a premium.

Download to Spreadsheet

The ability to download directly to Excel from the Ultrospec 3000 *pro* is very powerful; this means that results can be archived in a project directory and/or saved for manipulation with other results. Thus data presentation in internal reports can be normalised into the same format as those from other experimental techniques such as chromatography. Data is downloaded via a serial interface into a macro which has to be loaded onto the PC; both the cable and the macro are supplied as standard with the instrument.

Control by SWIFT II Software

Although Ultrospec 3000 *pro* is a stand alone instrument which can be used for discrete measurements on the laboratory bench, it can of course be controlled from a PC using SWIFT II software. SWIFT II is a suite of applications software written for the Windows 95 environment, but also Windows 98 and NT compatible, for Wavelength Scanning, Enzyme Kinetics, Time Drive, Quantification, Multi Wavelength and Fraction Analysis applications, and provides extensive post run manipulations on data acquired using the spectrophotometer. Ultrospec 3000 *pro* connected to, and controlled by, SWIFT II software.



Specifications

Wavelength Range	190-1100 nm, in 0.1 nm steps
Scanning Speed	6200 nm/minute maximum, 1 nm step
Monochromator	Concave grating with 1200 lines/mm
Wavelength Calibration	Automatic upon switch-on
Spectral Bandwidth	<1.8 nm
Wavelength Accuracy	±0.7 nm
Wavelength Reproducibility	±0.2 nm
Light Sources	Tungsten halogen and deuterium arc
Detector	Single solid state silicon photodiode
Photometric Range	-3.000 to +3.000 A, 0.01 to 99 999 concentration units, 0.1 to 200% T
Photometric Linearity	±0.5 % or ±0.003 A to 3.000 A at 546 nm, whichever is the greater
Photometric Reproducibility	Within 0.5% of absorbance value to 3.000 A (at 546 nm)
Stray Light	Typically <0.025% T at 220 nm using NaI, <0.025% T at 340 nm using NaNO ₂
Stability	±0.001 A/h at 340 nm at 0A after warm up
Noise	±0.001 A near 0 A and ±0.002 A near 2 A at 546 nm
Sample Compartment Size	140 x 220 x 80 mm (5.5 x 8.7 x 3.2 in)
Dimensions	500 x 360 x 190 mm (19.7 x 14.2 x 7.5 in)
Weight	13 kg (28.7 lb)
Power Requirements	90 to 265 VAC, 50/60 Hz, 150 VA

Catalog No.	Product
CGS 8155.39	Ultrospec 3000 <i>pro</i> UV/Visible Spectrophotometer (includes Spreadsheet Interface Software, Serial Cable and Qualification Logbook)

COMPANION PRODUCTS

CGS 8156.39	Printer Stand
CGS 8157.39	SWIFT II Method Applications Software
Inquire	Personal Computer
Inquire	Seiko DPU-414 Thermal Printer