

Ultrospec 3000 UV/Visible Spectrophotometer

Simple Lamp Change



The new source lamp assembly makes lamp changing extremely easy. There is no need to remove the instrument top cover – simply snap out the lamp compartment lid, slide out the lamp assembly and replace with a new one. No lamp adjustment is necessary since the lamps are pre-aligned, and a motorized lamp mirror optimizes for maximum energy throughput during calibration.

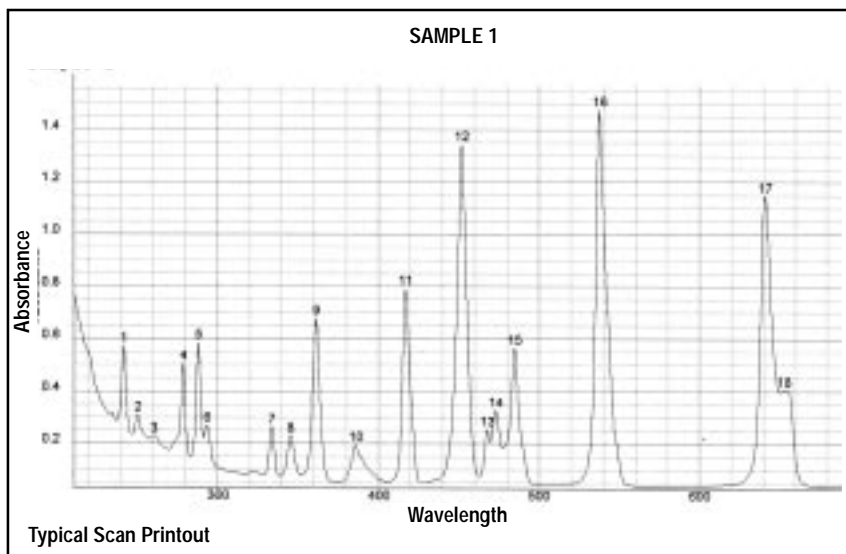
Utilities and Printing

A range of instrument utilities are accessible via the Function key. These include date / time, alphanumeric entry, baseline creation / storage and diagnostic parameters such as lamp hours; all parameters are battery backed. Ultrospec 3000 will print out these parameters (as well as those for bandwidth, wavelength, absorbance and stray light) in accordance with GLP requirements - very important in many aspects of laboratory record keeping. Ultrospec 3000 can print to a range of standard parallel printers, including Epson dot matrix and inkjets together with HP DeskJet and LaserJets, in either 40 or 80 column format.

Scanning Speed

Ultrospec 3000 has been designed for high reliability with a minimum of moving parts and high optical efficiency using a minimum of mirrors. The instrument has a precision encoder (patent pending) embodied in the software to ensure highly accurate and reproducible wavelength setting with a range of scanning speeds at different step intervals.

Ultrospec 3000 UV/Visible Spectrophotometer		
Scan speed (nm/minute)	Step Interval	
	1.0 nm	0.5 nm
Fast	6000	3000
Medium	4000	2500
Slow	2500	1500



Specification

Wavelength Range	190 to 1100 nm
Monochromator	1200 lines/mm concave holographic grating
Scan Speed	6000 nm/min at 1 nm data intervals
Spectral Bandwidth	3 nm
Wavelength Accuracy	±1 nm
Wavelength Reproducibility	±0.5 nm
Light Sources	Tungsten halogen and deuterium arc
Detector	Silicon photodiode
Photometric Range	-3.000 to +3.000 A, 0.01 to 99999 concentration units, 0.1 to 200% T
Photometric Accuracy	±0.5% or ±0.003 A to 3.000 A, whichever is the greater
Photometric Reproducibility	0.5% of absorbance value
Stability	±0.002 A/hr at 0 A after warm up
Stray Light	< 0.025% T at 220 nm using NaI and < 0.025% T at 340 nm using NaNO ₂
Digital Output	9 pin serial and Centronics parallel
Sample Compartment Size	140 x 220 x 80 mm (5.5 x 8.7 x 3.2 in)
Dimensions, H x W x D	190 x 500 x 360 mm (7.5 x 19.7 x 14.2 in)
Weight	13 kg (28.7 lb)
Power Requirements	100 to 240 VAC ±10%, 50/60 Hz, 150 VA
Safety Certifications	E 89/336/EEC (EMC directive); CE 73/23/EEC (LV directive); EN-61010-1 (IEC1010-1)

Catalog No.

CGS 8161.39

Product

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