Genova

Genova Life Sciences Spectrophotometer

- Pre-programmed for DNA/RNA analysis
- DNA purity scan mode
- Pre-loaded protein concentration determination methods
- Standard spectrophotometer functions

The Genova allows the measurement of DNA concentrations and purity ratios using the wavelengths recorded at 260 and 280nm or 260 and 230nm with optional correction at a third wavelength. The purity scan gives a clear, graphic display of DNA purity. This allows any shifted or distorted peaks due to interfering molecules to be identified.

The Genova also contains five pre-programmed methods for the Bradford, Lowry, Biuret, Bicinchoninic acid (BCA) and Direct UV techniques. In all cases the standard procedures may be modified by the user or run as programmed.

Technical Specification

Wavelength	
Range	198 to 1000nm
Resolution	1nm
Accuracy	±2nm
Repeatability	±0.5nm
Spectral bandwidth	8nm, 5nm typical at 270nm
Photometrics	
Transmittance	0 to 199.9%T
Absorbance	-0.300 to 1.999A
Accuracy	±1%T at 10%T
Resolution	0.1%T, 0.001A
Stray light	<0.5%T at 220 and 340nm
Noise	<0.001A at 0A at 400nm
Stability	<0.002A/h after 30 minutes
Concentration	
Range	-300 to 9999
Resolution	Selectable 1, 0.1, 0.01 or 0.001
Units	ppm, mg/l, g/l, M, %, µg/l, µg/ml, mg/ml, ng/ml, blank (mode specific)
Factor	0 to 199.9, 1000 to 9999
Spectrum	
Range	Survey scan 50nm either side of set wavelength (250-950nm)
Scan interval	1nm
Analysis	Absorbance and wavelength of peak
Other	
GLP	Real time clock and calendar, Operator ID Supervisor security (locks all set up parameters) Method display lock
Light source	Xenon lamp
Outputs	Analogue and RS232
Power	<50W
Size (w x d x h)	365 x 272 x 160mm
Weight	6kg

Ordering Information

Part Code	Description
636 001	Genova UV/visible life sciences spectrophotometer supplied with mains lead, 8 x 750µl UV plastic cuvettes and cell holder (230V/50Hz)
636 005	Genova UV/visible life sciences spectrophotometer supplied with TrayCell, mains lead, 8 x 750µl UV plastic cuvettes and cell holder (230V/50Hz)