

N E W

Genova **LIFE SCIENCE ANALYSER**



- Dedicated software for DNA/RNA and protein chemistry
- Ideal for monitoring cell growth at 600nm
- 40% more UV light energy giving better signal to noise ratio for protein & DNA study
- Self calibrating on start up at 3 wavelengths - 247, 528 and 824nm making it perfect for G.L.P.
- Scanning with 5nm slitwidth
- Blazed holographic grating / 1200 lines/mm
- Guaranteed lamp life of 3 years
- Small footprint (A4)

Spectroscopy is ideal for quantitative analysis of genomic and proteomic samples. It is perfect for quantitation of PCR products, DNA for cloning and sequencing, protein analysis and monitoring cell culture growth.

The Genova has all software built in to perform ssDNA, dsDNA, RNA and oligonucleotide analysis.

A key feature of the Jenway xenon lamp is that 40% of the energy of the lamp is emitted below 400nm, with a maximum intensity at 260nm. This means an *extra 5 - 10 times extra energy* in the UV region compared to a standard lamp configuration. This gives a better signal to noise ratio for protein, peptide or DNA study.

The Genova is designed to look at the fixed emission lines of the Xenon lamp at start up and is self calibrating at wavelengths (247, 528 and 824nm) for optimum accuracy, with a print out of this calibration the Genova fulfills all the requirements for GLP.

JENWAY

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The Genova has, in permanent memory, the wavelengths, calculations and factors necessary for chemical analysis. The opening menu accesses these:

- Protein:
 - Bradford
 - Lowry
 - Biuret
 - Bicinchonic
 - Direct UV
- DNA:
 - Direct reading at 260nm with multiplication by factor for ssDNA, dsDNA and RNA
 - 260/280 ratio
 - 260/230 ratio
 - Both ratios allow correction by subtraction at a third wavelength and multiplication by factors
- Photometric mode
 - Absorption
 - % Transmission
 - Concentration including ppm, mg/l⁻¹, g/l⁻¹, M, %, blank, mg/ml, µg/ml, ng/ml
 - Wavelength
- Scanning is also available over the whole wavelength range of 198-1000nm

SPECIFICATIONS

Wavelength

Range 198-1000nm
 Resolution 1nm
 Accuracy ±2nm
 Bandwidth 5nm

Transmittance

Range 0 to 199.9%
 Resolution 0.1%
 Stray light <0.5%T @ 340 & 220nm
 Accuracy ±1%

Absorbance

Range -0.300 to 1.999A

Resolution 0.001A

Concentration

Range -3 to 1999 Concentration

Resolution 0.1/1

Units ppm, mg/l⁻¹, g/l⁻¹, M, blank

Factor

Photometric Noise <0.001A @ 0A at 400nm
 Photometric Stability <0.002Ahr after 30 minute warm up

Readout

Outputs Custom LCD Graphics
 Analogue (0 to 1.999V d.c.)
 RS232 serial port

Light Source

Input Voltage Xenon flash lamp module
 115/230V a.c. -20% +10%
 Input Power <50W
 Size 365(w)x272(d)x160(h)mm
 Weight 6Kg

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