



68 Series

68 Series UV/Visible Double Beam Spectrophotometer

- Double beam spectrophotometer with highly stable optics
- 1.5nm spectral bandwidth
- Jenway Flight Deck software included as standard

With the 6800 Jenway introduces the first double beam spectrophotometer to the range. The highly stable optics and 1.5nm spectral bandwidth ensures high resolution and accuracy on every measurement. The Jenway Flight Deck software offers modes for all common measurement methods: photometrics and multi-wavelength, spectrum scanning, time scan and kinetics, quantitation, DNA/RNA and protein measurements. With extensive post-measurement tools and easy export to Excel® the 6800 ensures that all results are presented exactly to your requirements.

Technical Specification

Wavelength

Range	190 to 1100nm
Resolution	0.1nm
Accuracy	±0.3nm
Repeatability	±0.1nm
Spectral bandwidth	1.5nm

Photometrics

Transmittance	0 to 600%T
Absorbance	-3.0000 to 3.0000A
Accuracy	±0.3%T
	±0.002A at 0 to 0.5A, ±0.004A at 0.5 to 1.0A, ±0.008A at 1.0 to 2.0A
Reproducibility	±0.15%T
	±0.001A at 0 to 0.5A, ±0.002A at 0.5 to 1.0A, ±0.004A at 1.0 to 2.0A
Resolution	0.01%T, 0.0001A
Stray light	<0.05%T at 220 and 340nm
Noise	0.0003A
Stability	±0.0003A/h after 2h

Multi-wavelength

Data points	Up to 6 wavelengths
Calculations	Ratio, difference, formulae with factors

Spectrum

Range	Any range between 190 and 1100nm
Scan speed	10 to 3600nm/min (8 speed settings)
Scan interval	0.5, 1, 2 or 5nm, dependent on scan speed
Analysis	Auto peaks and valleys, zoom, addition, subtraction, peak ratios, smoothing, area under curve, wavelength table, derivatives, overlay

Time scan and Kinetics

Time limits	30 to 99999 seconds
Analysis	Slope and formula of line of best fit between any two points

Quantitation

Data points	Up to 3 wavelengths
Concentration range	0-99999
Calibration	Blank with standards or factor

DNA/RNA and Protein

DNA/RNA	Ratio, concentration, A_{320} correction
Protein	Bradford, Lowry, BCA, direct UV

Other

Light source	Tungsten halogen and Deuterium lamps
Lamp changeover	325 to 370nm selectable
Outputs	RS232
Operating system:	CPU: 1GHz Memory: 256Mb Hard disk: 500Mb
Power	200VA
Size (w x d x h)	540 x 560 x 235mm
Weight	27kg