

6850

UV/Visible Double Beam Spectrophotometer

The new 6850 introduces the first double beam spectrophotometer with a variable spectral bandwidth into the Jenway range. The highly stable optics and two detectors measure the sample and reference simultaneously optimising measurement accuracy. The 6850 has measurement modes for photometrics, concentration, multi-wavelength, spectrum scanning, kinetics, quantitation, DNA/RNA and protein analysis.

Jenway Prism PC software is supplied as standard and offers additional functionality with preloaded methods for DNA/RNA and protein analysis, as well as extensive post-measurement tools, unlimited results saving and easy export of data.

The 6850 is ideal for quality control, general research, pharmaceutical, biochemical and clinical laboratory applications.

Key Features

- Double beam spectrophotometer with highly stable optics
- Variable spectral bandwidth 0.5, 1, 2, 4, 5nm
- Integrated user interface
- Conforms to European Pharmacopeia requirements
- Jenway Prism PC software included as standard
- Extensive range of accessories available

Ordering Information

Part Code	Description
685-SC	6850 double beam spectrophotometer, supplied fitted with single 10x10mm cuvette holder in sample and reference position, instruction manual, power cables, PC software on CD ROM with USB connection cable and dongle, 2 x quartz cuvettes, 4 x glass cuvettes and FREE dust cover



6850

Part code: 685-SC

6850 Series Accessories

Ordering Information

Part Code	Description
685 204	10x10mm path length cuvette holder
685 131	Water heated 10x10mm single cell holder
685 005	10 to 100mm path length cuvette holder
685 304	Micro-cuvette holder
685 401	8 position automatic cell changer



Eight cell changer

Part code: 685 401

Technical Specification

Wavelength

Wavelength range	190 to 1100nm
Wavelength resolution	0.1nm
Wavelength accuracy	± 0.3nm (at 0.5 and 1nm bandwidth) ± 0.5nm (at 2, 4 and 5nm bandwidth)
Wavelength reproducibility	±0.2nm
Spectral bandwidth	Variable 0.5, 1, 2, 4, 5nm

Photometrics

Photometric range	-0.3 to 3.0A 0 to 200%T
Photometric accuracy	± 0.002A (0-0.5A) ±0.3%T (0-100%T)
Photometric reproducibility	±0.001 Abs (0 to 0.5 Abs) ±0.002 Abs (0.5 to 1.0 Abs) 0.15%T (0-100%T)
Resolution	0.1%T, 0.001A
Stray light	<0.05%T at 220 and 360nm
Noise	0.0005A
Stability	± 0.001A/h at 500nm after 15 min warm up

Multi-Wavelength

Multi-wavelength	Up to 10 wavelengths, up to 20 wavelengths with PC software
------------------	---

Spectrum

Spectrum range	Any range between 190 and 1100nm
Scan speed	100 to 2000nm/min
Scan interval	0.1, 0.2, 0.5, 1, 2 or 5nm
Analysis	Auto peaks and valleys, zoom, addition, subtraction, peak ratios, smoothing, area under curve, wavelength table, derivatives, overlay with PC software

Kinetics

Kinetics	Up to 12 hours with time intervals of 0.1, 0.2, 0.5, 1, 2, 5, 10 or 30 seconds
----------	--

Quantitation/Concentration

Quantitation points	Up to 3 wavelengths
Quantitation Calibration	Blank with up to 10 standards or factor
Concentration range	0-99999
Calibration	Blank with standards or factor

DNA

DNA/RNA and Protein	DNA/RNA Ratio, concentration, A320 correction
---------------------	---

Other

Light source	Tungsten halogen and Deuterium lamps
Lamp changeover	325 to 370nm selectable
Outputs	USB and parallel
Operating system:	Windows 2000, XP, Vista, Windows 7
Electrical supply	120VA, 220/110V, 50/60Hz
Size (w x d x h), mm	600 x 450 x 200
Weight, kg	22