

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

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|-----------------------------|--|
| 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

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

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|----------------|--|
| 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

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

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|--------------------------|---|
| 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

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

Other

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|----------------------|--------------------------------------|
| 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 |