

Ultrospec™ 8000/8000PC

Ultrospec 8000/8000PC is a dual-beam UV-Visible spectrophotometer designed to meet the requirements of critical analysis and users in Pharmacopoeia research environments. Secure user log in and method control, plus a 1 nm bandwidth enables European Pharmacopoeia compatibility. 21 CFR part 11 support can be achieved with the optional Datrys CFR software.



Fig. 1 Ultrospec 8000 stand-alone instrument



Fig. 2 Ultrospec 8000 with PC-control option

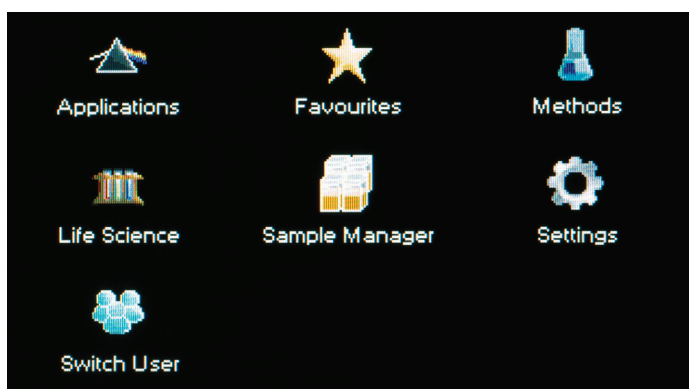


Fig. 3 Full suite of software, viewed via a clear, color touchscreen.

Key features

- Dual-beam instrument, with a 1 nm bandwidth
- Full European Pharmacopoeia compatibility
- 21 CFR part 11 support through Datrys CFR (optional)
- Color touchscreen (stand-alone instrument)—simpler operation
- Software for wavelength scanning, fixed wavelength, standard curves, kinetics and pre-stored life science methods as standard
- Equation Editor software allowing custom calculations to be applied to measured data
- Multi-user analytical instrument with secure login to protect methods
- USB memory stick data/method storage and USB PC connection—export data the way you want
- Stand-alone or PC-controlled versions available
- Both instrument versions are supplied with Datrys Standard. Can be upgraded to Datrys Life Science or Datrys CFR
- Stand-alone version also includes Print Via Computer (PVC)
- Wide range of accessories and options available including cell changers, thermostating, sipper, built-in printer, Bluetooth and Datrys software options. Please refer to the “High performance spectrophotometer accessories” brochure for additional information

Technical specification

Optical system	Double-beam monochromator
Detector	Dual-silicon photodiodes
Light source	Deuterium + Tungsten
Wavelength calibration	Automatic upon switch on
Wavelength range	190 – 1100 nm
Absorbance range	- 4.0 to 4.0 A
Spectral bandwidth	1 nm
Stray light	< 0.025%T at 220 nm using NaI and 340 nm using NaNO ₂ . < 1%T at 198nm KCl
Wavelength accuracy	± 0.3 nm across wavelength range
Wavelength reproducibility	± 0.1 nm
Photometric reproducibility	± 0.002 A at 1 A
Photometric accuracy	± 0.002 A at 0.5 A, ± 0.004 A at 1 A, ± 0.006 A at 2 A
Zero stability	± 0.0003 A/hr at 500 nm
Noise	< 0.00005 A RMS at 500 nm
Outputs	USB cable, USB memory stick, Built-in Printer (Optional), Bluetooth (Optional)
Power supply	90-250 V, 50/60 Hz, Max 30 VA
Dimensions (w × d × h)	533 mm × 457 mm × 330 mm
Weight	< 18 kg
Warranty	2 years instrument, with a 1 year lamp warranty
PC compatibility	Windows™XP, Windows Vista™ and Windows 7
PC control software	Datrys (Standard with PC-controlled model), Datrys Life Science (Optional upgrade)

Ordering information

Product	Qty	Code No.
Ultrospec 8000 UV-Visible Spectrophotometer	1	29-0036-10
Ultrospec 8000PC UV-Visible Spectrophotometer	1	29-0036-11
Ultrospec 8000 UV-Visible Spectrophotometer with Bluetooth accessory	1	29-0036-13

Additional accessories for this instrument are available, please refer to the "High performance spectrophotometers accessories" brochure for additional information.

Accessories	Qty	Code No.
Water thermostatted single cell holder	1	80-7100-03
Variable Pathlength Cell Holder	1	80-7100-05
Automatic 8-Cell Changer	1	80-7100-08
Thermostatted 5-cell Changer	1	80-7100-09
Test Tube Holder	1	80-7100-11
Film Holder	1	80-7100-12
Automatic sipper system	1	80-7100-36
Peltier thermocirculator	1	80-7100-50
Disposable Cells UV plastic (min. vol. 750 µL), semi-micro, pack of 100	1	80-3000-77
Quartz Cells ultra-micro (70 µL fill vol.)	1	80-2103-69

Software	Code No.
Datrys	29-0036-21
Datrys Lite	29-0036-22
Datrys Life Science	29-0036-23
Datrys Life Science Upgrade†	29-0036-25

† For users who own Datrys standard software



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