

Ultrospec™ 9000/9000PC

Ultrospec 9000/9000PC is a dual-beam UV-Visible spectrophotometer for operation in high-specification laboratories. The instrument is European Pharmacopoeia compatible and is also compatible with CFR part 11 requirements via the optional Datrys software. Method development is supported through variable bandwidth capability and custom calculation facilities.



Fig.1 Ultrospec 9000 stand-alone instrument



Fig. 2 Ultrospec 9000 with PC-control option

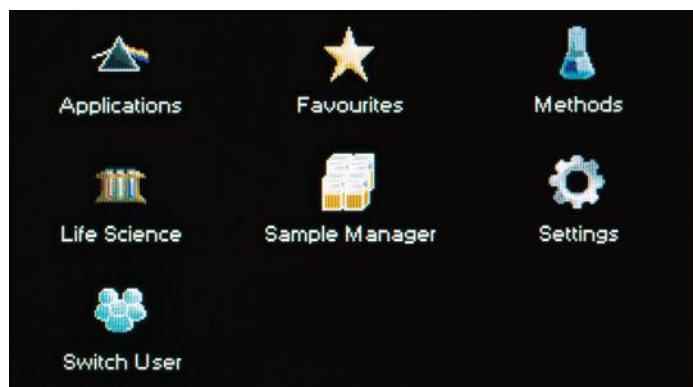


Fig 3. Full suite of software, viewed via a clear, color touchscreen.

Key features

- Dual-beam, variable bandwidth optics—high performance for difficult samples
- Full European Pharmacopoeia compatibility
- 21 CFR part 11 support through Datrys CFR (optional)
- Custom calculation facility for method development using Datrys software
- Equation Editor software allowing custom calculations to be applied to measured data
- Color touchscreen (stand-alone instrument) — simpler operation
- Software for wavelength scanning, fixed wavelength, standard curves, kinetics and pre-stored life science methods as standard
- 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, and 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	Variable 0.5 nm, 1 nm, 2 nm, 4 nm
Stray light	< 0.025%T at 220 nm using NaI and 340 nm using NaNO ₂ . < 1%T at 198 nm 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, 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 9000 UV-Visible Spectrophotometer	1	29-0036-16
Ultrospec 9000PC UV-Visible Spectrophotometer	1	29-0036-17
Ultrospec 9000 UV-Visible Spectrophotometer with Bluetooth accessory	1	29-0036-19

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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