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UVIKON XS UV/VIS Spectrophotometer

Overview

The UVIKON XS, in combination with the easy to use Windows compatible LabPower Junior software package, supports the entire range of daily routine applications. The UVIKON XS offers true double-beam capability at a price you can afford.

True Symmetrical Double-Beam Optics

The UVIKON optical design features true symmetrical double-beam optics using a single chopper wheel and detector. The speed of rotation of the chopper wheel allows for a measurement every 10 milliseconds on both the sample and reference channels.

This means that effectively all measurements are made in real time against the reference thus providing maximum confidence in the measured result.

High Energy Throughput

The UVIKON uses a high-efficiency grating designed by Zeiss for maximum energy throughput. This, combined with the specially designed grating drive motor, results in precise measured data not compromised by noise.



Large Sample Compartment

Total and easy access to the large sample compartment (140 mm deep, 332 mm wide and 162 mm high) with 120 mm beam separation provides for ease-of-use and great flexibility.

"Quick-Lock" Positioning

The three-point "Quick-Lock" positioning of accessories gives high reproducibility of results and also allows for fast exchange of accessories whenever required.

Protected Optics Area

Quartz windows at the entrance and exit points to the sample compartment prevent contamination of the optics area. The complete optical system is sealed against atmospheric contamination by dust and/or volatile sample compounds.

Thermally Isolated Lamp Housing

External positioning of the light source bench provides for thermal insulation of the optical bench.

Built-in Accessory Control

The UVIKON XS comes complete with a built-in accessory controller for control of the accessories, e.g. automated cell changer.

Specifications

Wavelength range	180 - 1100 nm
Wavelength step	0.05 - 10 nm
Scan speed	5 - 2000 nm/min
Transfer speed	5000 nm/min
Spectral bandwidth	1.8 nm (fixed)
Wavelength accuracy Holmium Oxide Filter	± 0.3 nm
Wavelength precision Holmium Oxide Filter	± 0.03 nm
Baseline flatness	< ± 1 mabs measured over 200-800 nm, 2 nm, 200 nm/min
Stray light Nal, 220 nm	< 0.03 %T



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Linearity 250 nm, 2 nm, 1 sec.	3 Abs, $(r^2 >= 0.999)$	
Photometric range	± 3.5 Abs	
Photometric accuracy	± 3 mabs measured at 590 nm, certified 0.85 AU filter, 1 sec	
Photometric precision	± 0.5 mAbs measured at 590 nm, certified 0.85 AU filter, 1 sec	
Noise (RMS)	< 30 μ Abs measured at 580 nm	
Drift	< 0. 1 mAbs/hr measured at 580 nm after warm-up	
Response time	0.02 - 5 sec	
Light sources	Deuterium and Tungsten-Halogen lamps	
Monochromator	High energy low stray light diffraction grating with 1300 lines/mm, 175 mm focal length	
Dimensions	680 x 275 x 565 mm (W x H x D)	
Weight	35 kg	
All specifications may be subject to change for technical reasons.		

Ordering Information

99-90289	UVIKON XS Spectralphotometer (Includes LabPower Software Package, Standard Thermostatable Cell Holder compatible with Micro and Ultra Micro Cells, Accessory Controller to allow connection of all UVIKON accessories)
91-00580	Double Magnetic stirrer accessory (variable speed)
91-00616	Magnetic stirring bars (x5), size: 8 x 3 mm
91-00606	Quick-Lock cell holder for cells up to 20 mm pathlength, water thermostatable
91-00610	Thermostation fluid connection block
91-00601	Quick-Lock long path rectangular cell holder for cells up to 100 mm pathlength
91-00603	Quick-Lock long path cylindrical cell holder for cells up to 100 mm pathlength
91-00624	Quick-Lock solid sample holder
91-00586	Quick-Lock automatic/manual cell changer, water thermostatable. Modes [6+6]-[6+1]-[2(5+1)]
91-00607	Temperature sensor for cell holder
91-00608	Inert glass miniaturised temperature sensor for cell content
91-91465	ThermoPack Peltier thermoregulated bath from 20 to 60°C
91-91637	ThermoSystem Peltier thermoregulated 6x6 cell changer 0 to 100°C and 12 position Stirrer
91-91671	Peristaltic sipper thermostatable (requires one circulation cell)
H-176703	x1 standard quartz flow cell for sipper volume 160 μl, 10 mm pathlength, Z 15 mm
96-90275	Pre-adjusted halogen lamp for UVIKON XS or XL
96-90297	Pre-adjusted deuterium lamp for UVIKON XS or XL