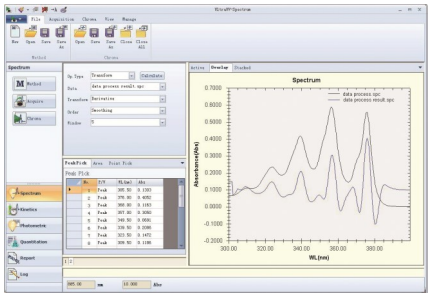
ULTRA-3000 SERIES UV-VIS SPECTROPHOTOMETERS

Versatile test solutions with built in bioanalytical methods



Spectrum, Kinetics, Photometric & Quantitation Measurement Modes

The Dionamix Ultra-3000 series UV-Vis spectrophotometers are available in a combination of Single or Double Beam UV-Vis light paths with wavelength ranges of 0.5/1/2/4 nm or 1/2 nm. The Ultra-3000 series includes Spectrum, Kinetics, Photometric and Quantitation measurement modes with easy setup of measurement parameters and processing the results, simplifying bio-analytical test methods.

The UltraUV Workstation PC Software has built-in measurement modes or easily meet the needs of sophisticated research analysis methods. The user interface breaks the measurement process into three easy to follow steps, Analysis Method, Measurement Operation and Results Processing and Reporting. The UltraUV workstation software is GLP/GMP compliant. It ensures data authenticity with built-in user account access controls, audit trail and use of encrypted data

SPECTROPHOTOMETER APPLICATIONS

Ethanol content in Wine

Detection of phenols and aniline in water

...and more.

MODELS TO SUITE WIDE RANGE OR SPECIFIC APPLICATIONS

- Ultra-3660 Double Beam 0.5/1/2/4 nm
- Ultra-3560 Split Beam 0.5/1/2/4 nm

LAB SUPPLIES

- Pipets
- Micro Syringes
- Sample Vial
- Solvent Bottles
- Dispenser
- pH meter

Contact Dionamix Scientific

2245-6900 Graybar Rd

Richmond BC V6W0A5

Canada

ULTRA 3000 SPECIFICATIONS

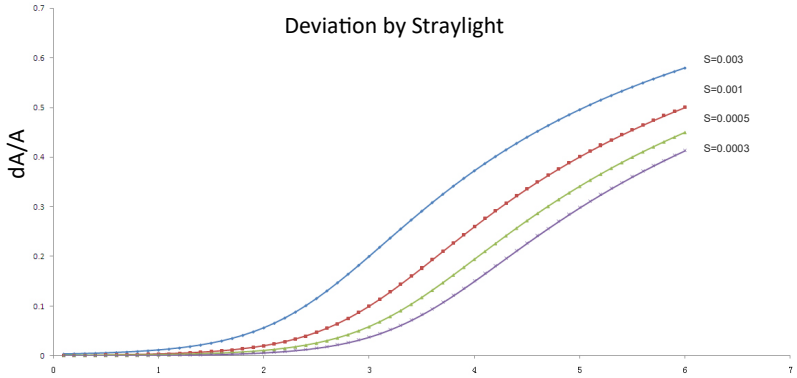
	Ultra-3660	Ultra -3560
Light Source		
Light Path	Double Beam	Single Beam
Spectral Bandwidth	0.5/1/2/4	0.5/1/2/4
Wavelength Range	190-1100 nm	190-1100 nm
Wavelength Reproducibility	0.1 nm	0.2 nm
Wavelength Accuracy	±0.3 nm	±0.3 nm
Stray Light	≤ 0.03%T	≤ 0.03%T
Drift	0.0005Abs/hr	0.001Abs/hr
Noise	± 0.00005A	± 0.0001A
Detector		
Monochromator	Czerny-Turner Monochromat	
Detector	Silicon Photodiode	
Lamp	Deuterium, Tungsten	
Photometric range	-3.5 to +3.5Abs	
Photometric accuracy	±0.002A (0 ~ 0.5A) ±0.004A (0.5 ~ 1A)	
Photometric repeatability	±0.001A (0 ~ 0.5A) ±0.002A (0.5 ~ 1A)	
Transmittance accuracy	±0.3%T (0 ~ 100%T)	
Transmittance repeatability	±0.1%T (0 ~ 100%T)	
Scanning Speed	Max3000 nm/min	
Baseline Stability	<0.0005Abs/Hr	
User Interface		
Screen	7” TFT color screen WGA (800X480)	
Direct Printing	Via USB Device Port	
USB Storage	USB Host	
Workstation Software	Ultra UV Spectrum Workstation	
General		
Weight	55 lbs (25 kg)	
Dimensions	21.7" x 21.7" x 8.7" (550mm x 550mm x 220mm)	
Voltage	100 ~ 240 VAC_{rms}	
Frequency	50 - 60 Hz	
Power	120 W_{max}	
Operating Temperature	60°F ~ 95°F (15°C ~ 35°C) Temperature Fluctuation < 35°F/ Hr (<2°C/Hr)	
Operating Humidity	20% RH ~ 80% RH	

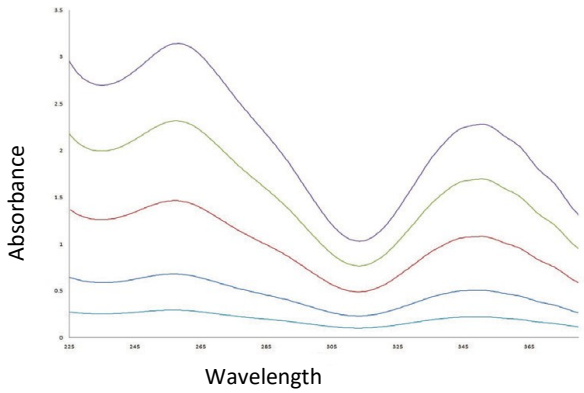
Intuitive user interface

With support for USB Print, PC Connection via Lan or USB

High Performance Precision Measurements

Ultra-low stray light design for more precise measurement, Stray light ≤0.03%T under each bandwidth





Versatile Test Solutions

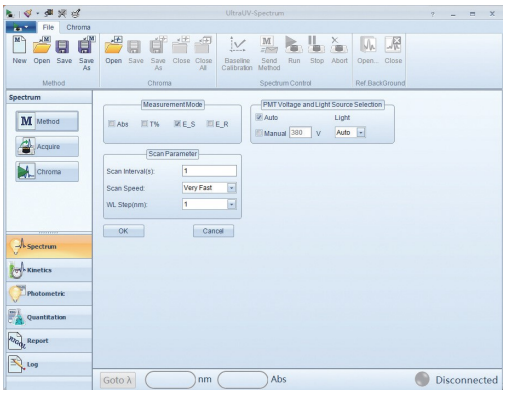
Ultra UV includes all your need for spectrum scanning, kinetic testing, photometric measuring and quantitative analysis. With robust data processing function such as interpolation method, grand average, arithmetic and data set, UltraUV satisfy the most sophisticated application requirements.

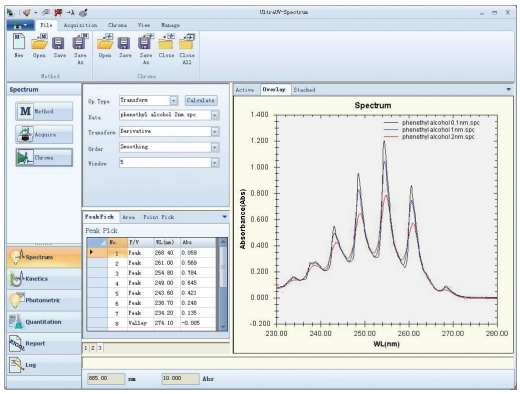
Flexible Report Design

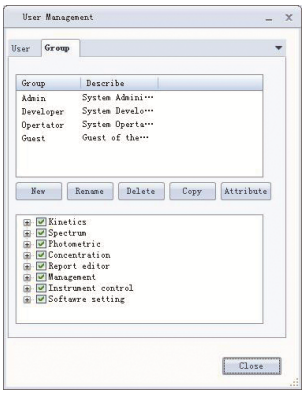
UltraUV report editor is powerful and flexible, by adopting the principle of “what you see is what you get”, you can input related data in right position based on requirements. The report can be saved as template for future usage.

GLP/GMP Regulations Compliance

UltraUV is totally compliant with GLP/GMP regulatory guidelines. It ensures the data authenticity & standards with built-in user account access control, audit trail and encrypted data saving algorithm.

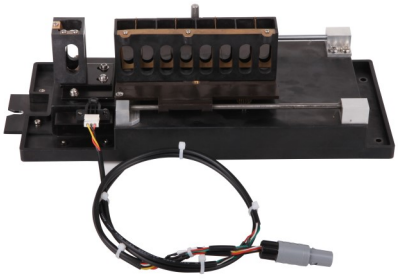






Accessories

Automatic 8 Cell Holder. Enable the automatic switching and measuring of eight 10mm square cuvettes



Absolute Reflectance Attachment. Used for testing materials with optical surface, or semi-conductive materials. 5° incident angle can reduce the polarized light to a minimum. Max. sample size: 100L x 160W x 15H mm

Cuvettes. Diverse Quartz and glass cuvettes with different light path and volume