

**T6**

**UV/VIS Spectrophotometer**

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**UV/VIS SPECTROPHOTOMETER**



# T6

## UV/ VIS Spectrophotometer

- LOW STRAY LIGHT
- EXCELLENT STABILITY
- EASILY UPDATED
- MANY APPLICATIONS
- LOW COST HIGH QUALITY
- SMALL FOOTPRINT
- USER FRIENDLY SOFTWARE



The T6 provides the functionality of an advanced instrument, at an affordable price. The superior flexibility, high level of automation and user friendly software, backed up with excellent service makes the system the "Professionals" Choice.







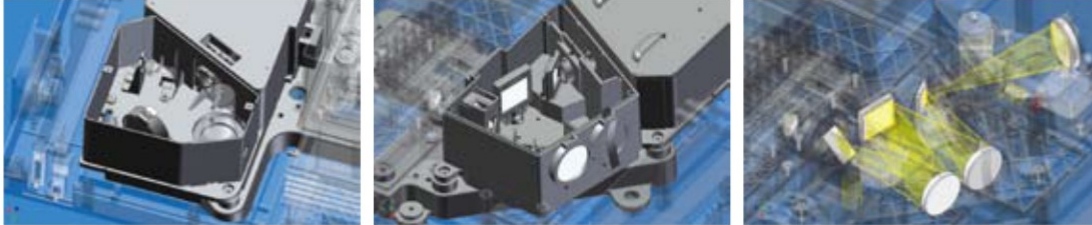
The advanced optical system ensures very low stray light

Stray light is controlled by a very low noise electronic circuit

High Quality optical components ensure accurate reliable analytical data

## Low stray light

Stray light below 0.05%



## Excellent stability

Superior material makes it stable and durable



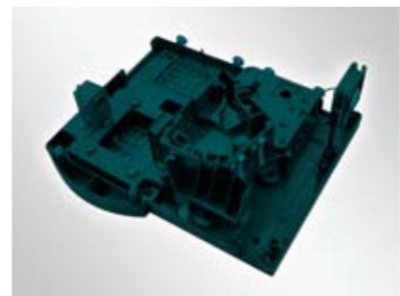
A micro-step motor positions the grating very precisely. This motor is free from maintenance.



Deuterium and Tungsten lamps are used as the light source.



The monochromator is totally sealed and the optical surfaces are protected with a silicon dioxide membrane.



The Spectrophotometer shell is made from an environmentally friendly non corrosive material.

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## Hardware and Software easily updated

Pre-programmed application cards to perform analysis such as DNA/Protein, photometric, kinetics etc can be easily in-serted by the user.



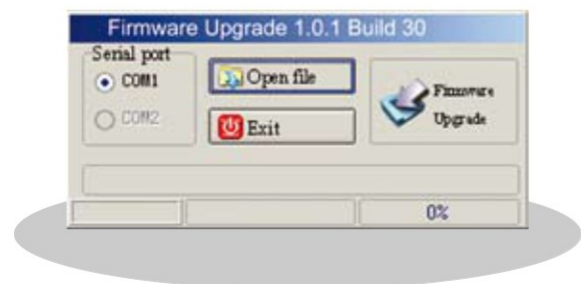
The cell compartment is easily opened to allow other accessories to be used.



System is easily interfaced to a PC via a standard RS232 interface.



Can be easily interfaced to many different printers.



The user can easily receive program updates from our internet site.

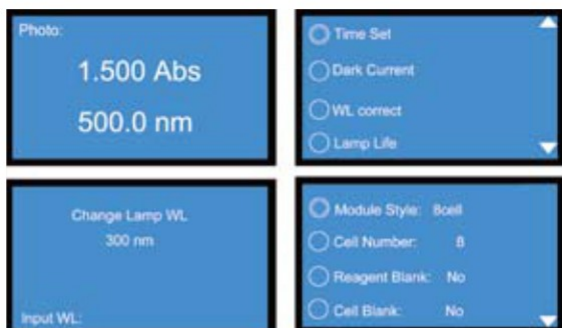


## User friendly design

Offers ease of use and simple maintenance

### Full Automation

Automatic wavelength positioning, lamp change over, wavelength calibration, motorised sample changer etc.



### Fast Scan

The speed of the wavelength drive is up to 7000nm/min and the speed of the wavelength scan is up to 2500nm/min.



### Built in Cell Holder Storage

The cell holder on one side of the sample compartment allows for easy access.



### Cleanable Dust Filter

The Dust Filter ensures the internal parts of the instrument remain contamination free.



### Automatic Lamp Usage detection system

The user allows to check the lamp usage information. For example, if the tungsten lamp has operated for 201 hours and the deuterium lamp for 197 hours, it will display as following.



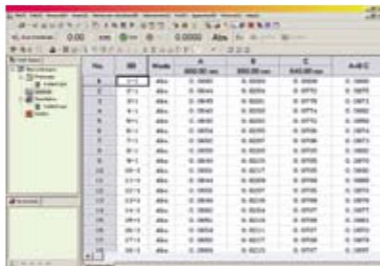
### Simple Maintenance

The retaining mechanism at the bottom and the back of the instrument make maintenance a simple process.

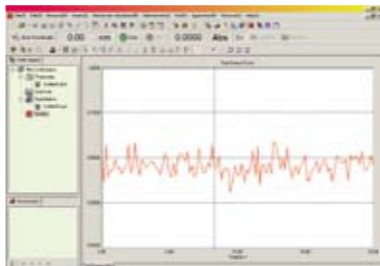


UV-Win is a powerful, intuitive software product used for connectivity to the AceMART range of bench top UV-Vis Spectrophotometers.

## Four regular functions



Photometric measurement



Kinetics measurement



Quantitative measurement



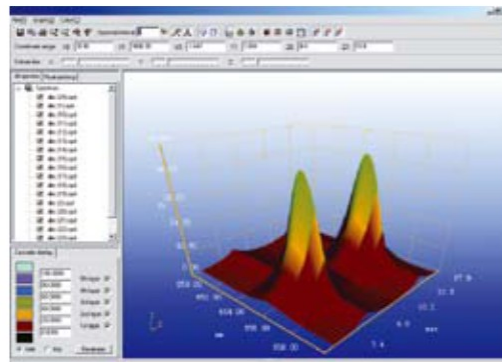
Spectrum scan

The UV-Win software offers complete instrument control along with data acquisition and a whole host of mathematical tools for interpretation of measurement results. The UV-Win software is separated into four key workspaces:

- Spectral Analysis
- Quantitative Analysis
- Kinetic Analysis
- Photometric Analysis

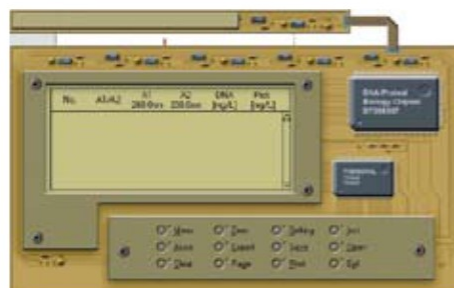
## 3D Presentation

- 3D Presentation by combining multiple spectrum Spectra can be fully and easily manipulated Peak Picking
- Graphics printout



## DNA/Protein Analysis

- Measurement of absorbance ratios at 260nm and 230nm, at 260nm and 280nm, and at custom defined wavelengths
- Background correction using absorbance at 320nm (Optional)
- Absorbance ratio calculation for user selected wavelengths
- Concentration calculation using arbitrary factors when selecting custom defined wavelengths

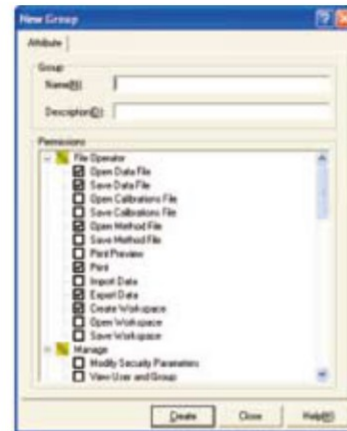
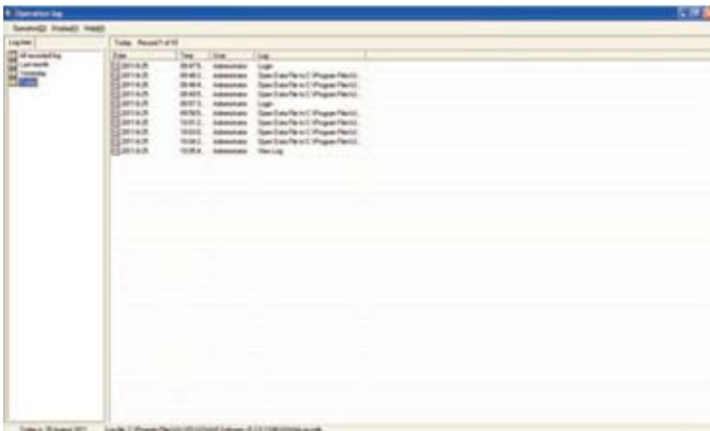




UVWin GLP offers all of the features and functionality of UVWin whilst also offering extensive Administrative capabilities along with a detailed audit trail.

## Administration

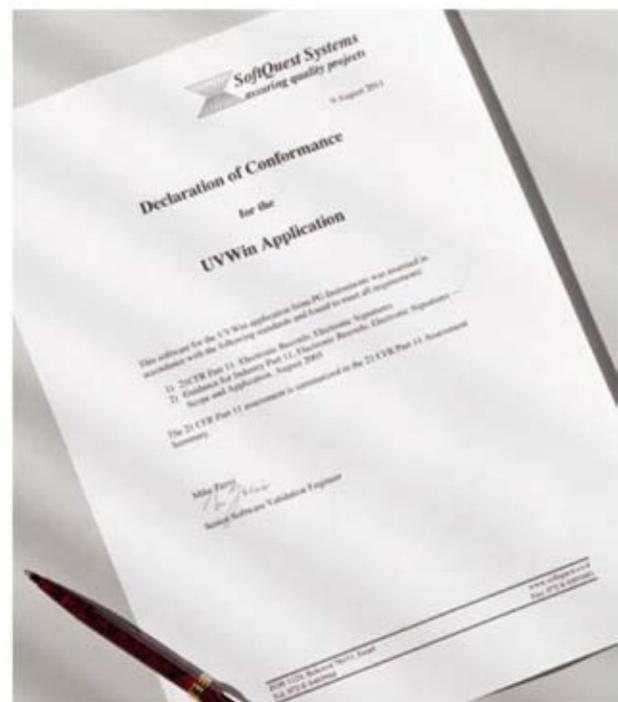
- Administrative settings can be made where Analysts may require conformity to GLP/GMP/GRP
- Create User groups specifying exactly what actions they are able to perform.
- Add New Users to custom User Groups to determine their privilege settings. Automatically log software activity in an Audit Trail.
- Use Password control to ensure Users are logged in for instrument usage.



## Certification

UV-Win GLP has been evaluated and tested by a third-party software validation specialist. As a result it was found that UV-Win GLP offers all of the features and functions required for use in compliance with the guidance specified in:

- 21CFR Part 11- Electronic Records; Electronic Signatures
- Guidance for Industry Part 11, Electronic Records; Electronic Signatures — Scope and Application, August 2003



## Specifications

	T6U	T6V
Optical system	The split beam monitoring ratio system	The split beam monitoring ratio system
Wavelength range	190~1100nm	325~1100nm
Wavelength accuracy	±1nm	±2nm
Wavelength reproducibility	≤0.2nm	≤0.4nm
Spectral bandwidth	2nm	2nm
Stray light	≤0.05%T	≤0.1%T
Photometric range	-0.3~3Abs	-0.3~3A
Photometric accuracy	±0.002Abs(0~0.5A) ±0.004Abs(0.5~1A) ±0.3%T(0~100%T)	±0.002A (0~0.5A) ±0.004A (0.5~1A) ±0.3%T(0~100%T)
Photometric reproducibility	≤0.001A(0~0.5A) ≤0.002A(0.5~1A) ≤0.15%T(0~100%T)	≤0.001A (0~0.5A) ≤0.002A (0.5~1A) ≤0.15%T(0~100%T)
Baseline flatness	±0.002A (200~1000nm)	±0.002A (325~1000nm)
Noise	±0.001A (500nm,p-p), half an hour warm-up	±0.001A (500nm,p-p), half an hour warm-up
Baseline stability	≤0.001A/h (500nm,0Abs), 2hr warm-up	≤0.002A/h (500nm,0Abs) , 2hr warm-up

Performance	Photometric measurement	Photometric measurement
	Program card(DNA/Protein analysis, Quantitative measurement, Photometric measurement, Multi-wavelength analysis)	Quantitative measurement
	Life check for Tungsten-Halogen lamp and Deuterium lamp	
	Auto 8-cell changer	
	Backlight digital LCD	Auto 8-cell changer
	Mini-printer, HP Deskjet printer and laserjet printer, via parallel port	Mini-printer, HP Deskjet printer and laserjet printer, via parallel port
	PC interface via RS232 link	PC interface via RS232 link

## Optional accessories

- UVWIN6 UV/Win 6 Software & RS232 Communication Cable
- PC161-1 T6U Quantitative PCMCIA Program Card
- PC161-2 T6U Multi Wavelength PCMCIA Program Card
- PC161-3 T6U Scanning and Kinetics PCMCIA Program Card
- PC161-4 T6U DNA/Protein PCMCIA Program Card
- PC161-5 T6U Palm Oil PCMCIA Program Card
- PS16-2 T6 Sipper Pump Accessory (Pump, Tubing, Cassette, Front Panel, Flow Cell)
- CH16-1 T6 Constant Temperature Holder
- DS16-1 T6 Adjustable Angle Solid Sample Holder
- 21601-00 T6 Universal 5 Position 5-100mm Cell Changer Motorized Assembly
- 21603-00 T6 8 Position 10mm Path length Cell Changer Motorized Assembly
- TR16-1 T6 Single Position Variable 13-16mm Test Tube Holder
- PTC-2 Peltier Module
- UP16-1 Micro Printer Accessory (UP)



Program Card



Sipper Pump



Constant-temperature Cell Holder



Adjustable Angle Solid Sample Holder



Long Pathlength 5-cell Holder



Automatic 8-cell Holder



Test Tube Holder



Peltier

## Dimensions

Width×Depth×Height 476(mm)×362(mm)×225(mm)

Weight 11 kg



Micro Printer





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