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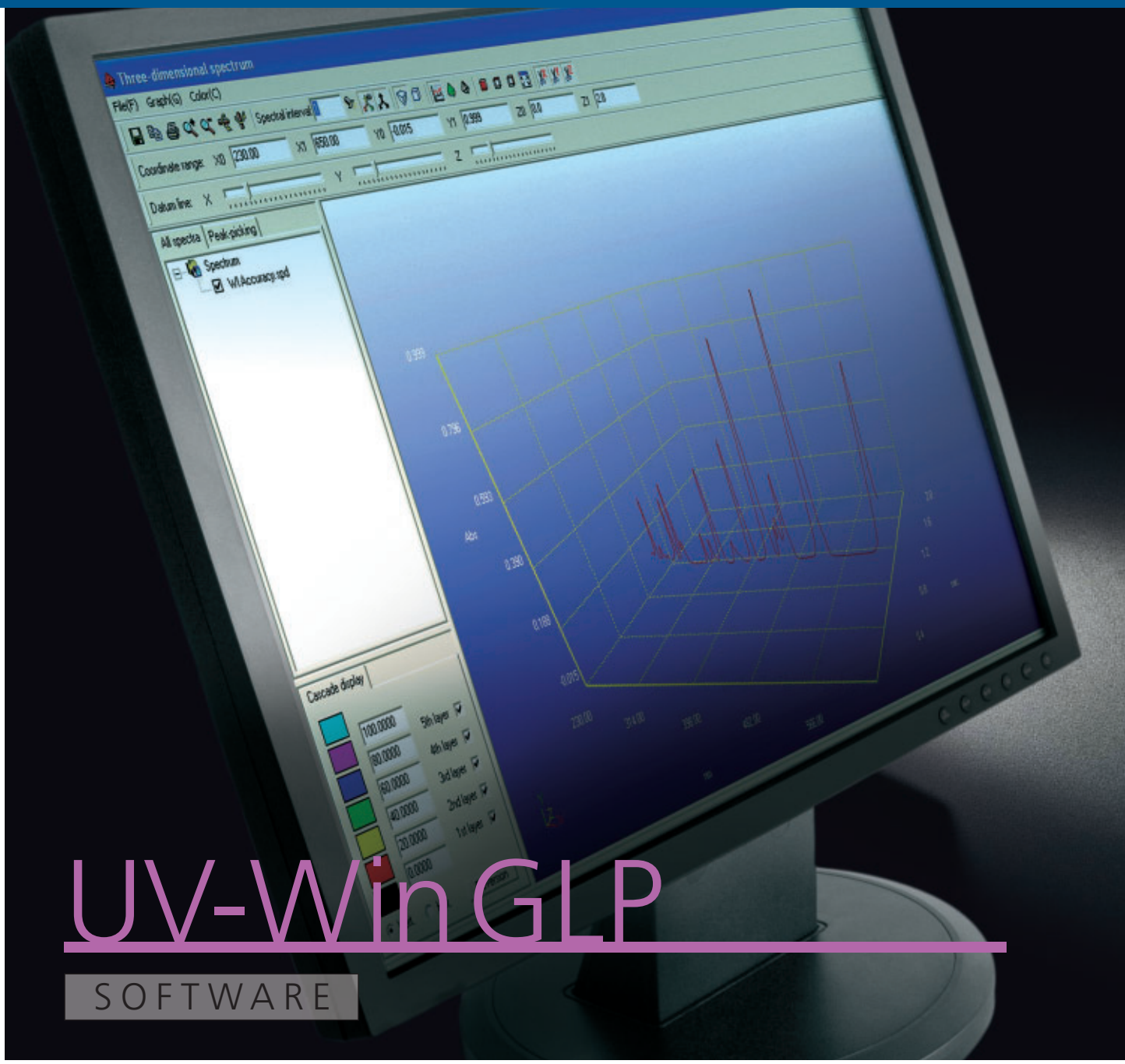
Analytical Instruments for Science



UV-Win GLP

SOFTWARE

UV-Win is a powerful, intuitive Software product used for connectivity to the PG Instruments range of bench top UV-Vis Spectrophotometers. UV-Win GLP offers all of the features and functionality of UV-Win whilst also offering extensive administrative capabilities along with a detailed audit trail.

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.

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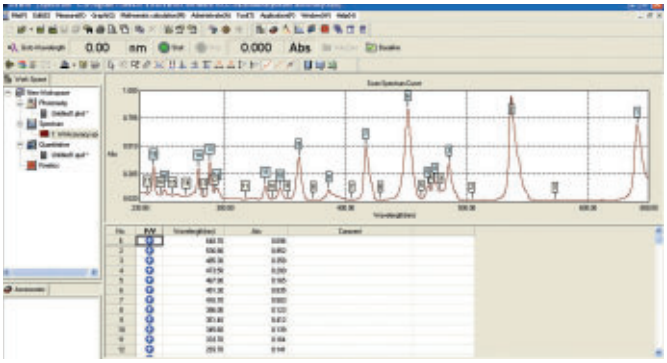
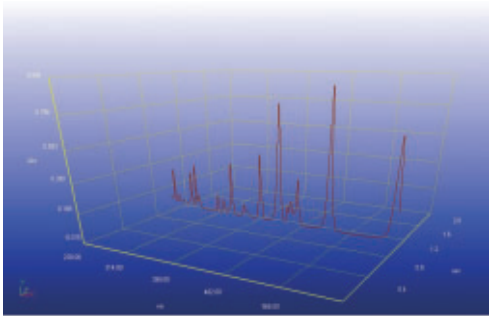
SPECTRUM WORKSPACE

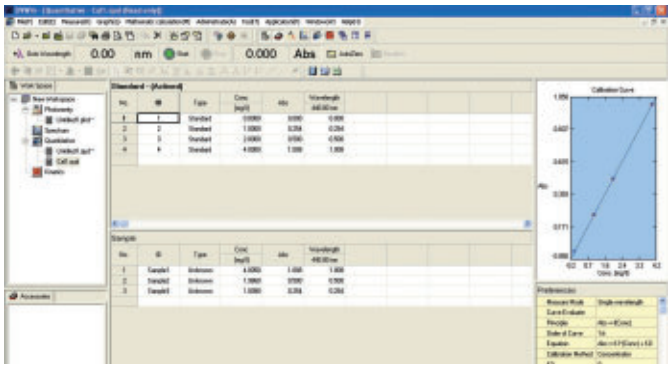
- Use the spectrum workspace to scan across a userdefined spectral range measuring in either absorbance or transmission.
- Use the "Peak Pick" tool to determine the wavelength at which peaks and valleys have occurred whilst also being able to determine their amplitude.
- View spectral overlay in the 3D display mode.
- Perform 1st, 2nd, 3rd and 4th order differentiation on sample scans for Derivative Spectroscopy.
- Export measurement data into Word, Excel, CSV and ASCII formats.
- Create method files for routine analysis whilst also being able to save measurement data.

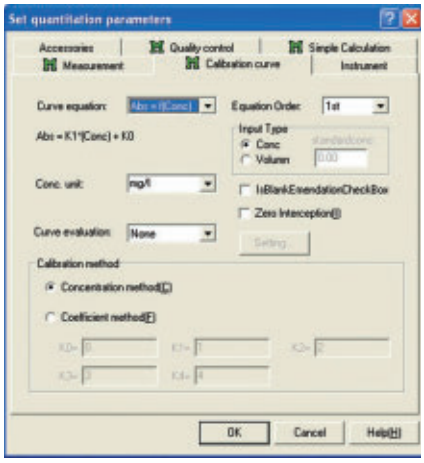




QUANTITATIVE WORKSPACE

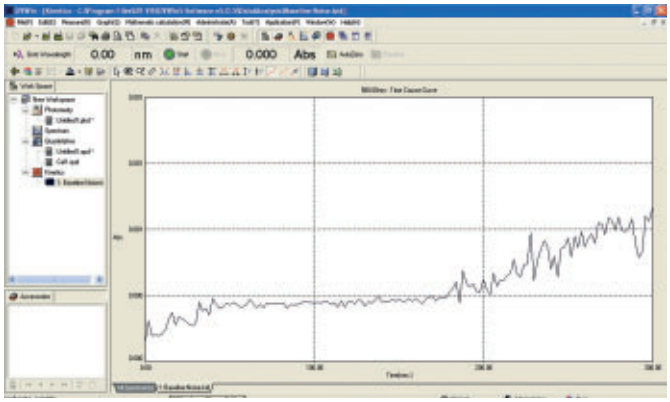
- Use the Quantitative workspace to determine the concentration of unknown samples.
- Create a calibration curve using a series of standard solution or by directly entering the coefficients for the calibration curve equation.
- Specify 1st, 2nd, 3rd and 4th order correlation for the best calibration curve fit.
- Set Quality Control monitors to take user specified action in the event of measurement results falling outside user defined limits.
- Export measurement data into Word, Excel, CSV and ASCII formats.
- Create method files for routine analysis whilst also being able to save measurement data.





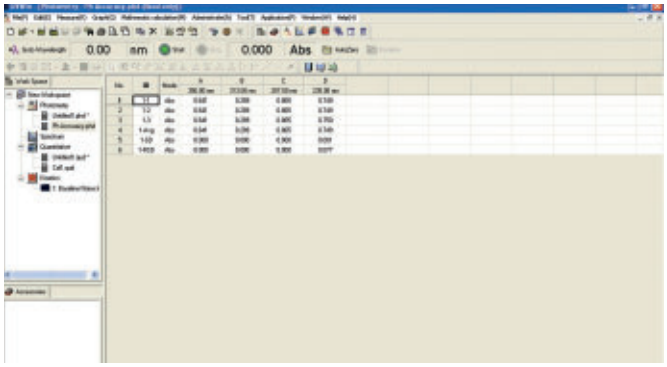
KINETIC WORKSPACE

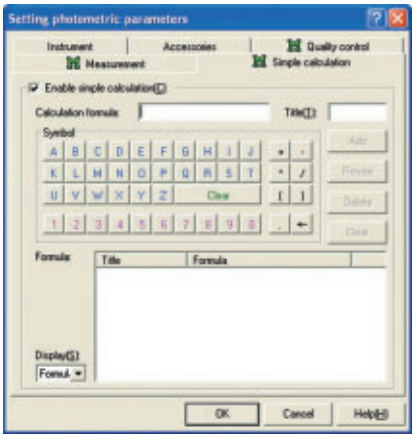
- Monitor the change of Absorbance or Transmission as a function of time for Enzyme type reactions.
- Use in conjunction with a Flowcell for sample introduction or Peltier water circulator for temperature control.
- Specify data intervals and acquisition time for up to 24 hour reactions.
- Export measurement data into Word, Excel, CSV and ASCII formats.
- Create method files for routine analysis whilst also being able to save measurement data.



PHOTOMETRIC WORKSPACE

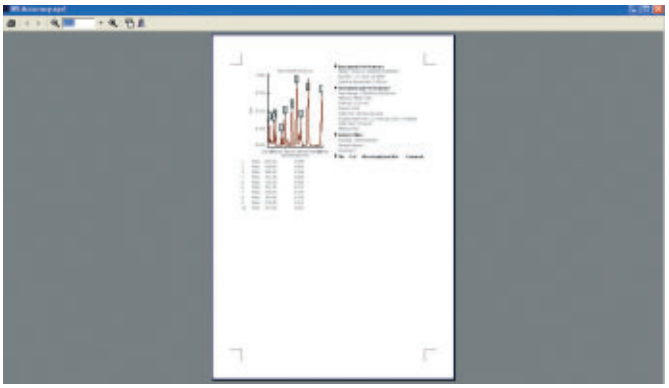
- Perform a series of sequential fixed wavelength measurements in either Absorbance or Transmission.
- Automate sample measurements by configuring the instrument cell changer.
- Calculate concentration of unknown samples quickly using the "Simple Calculation" option where complete calibration is not required.
- Automatically calculate statistics like standard deviation, relative standard deviation, and averages.
- Export measurement data into Word, Excel, CSV and ASCII formats.
- Create method files for routine analysis whilst also being able to save measurement data.





REPORTING

- Produce reports for photometric, spectrum, kinetic and quantitative measurement data.
- Include or remove spectra, calibration curves along with samples measurement tables.



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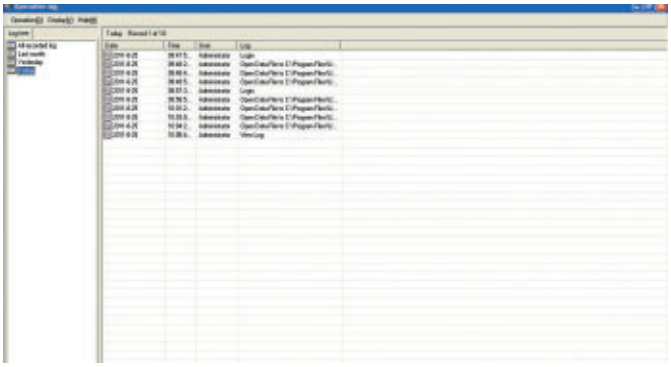
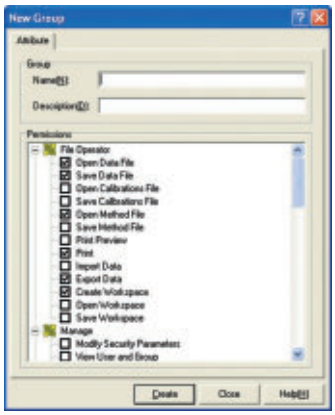
ADMINISTRATION

- 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.