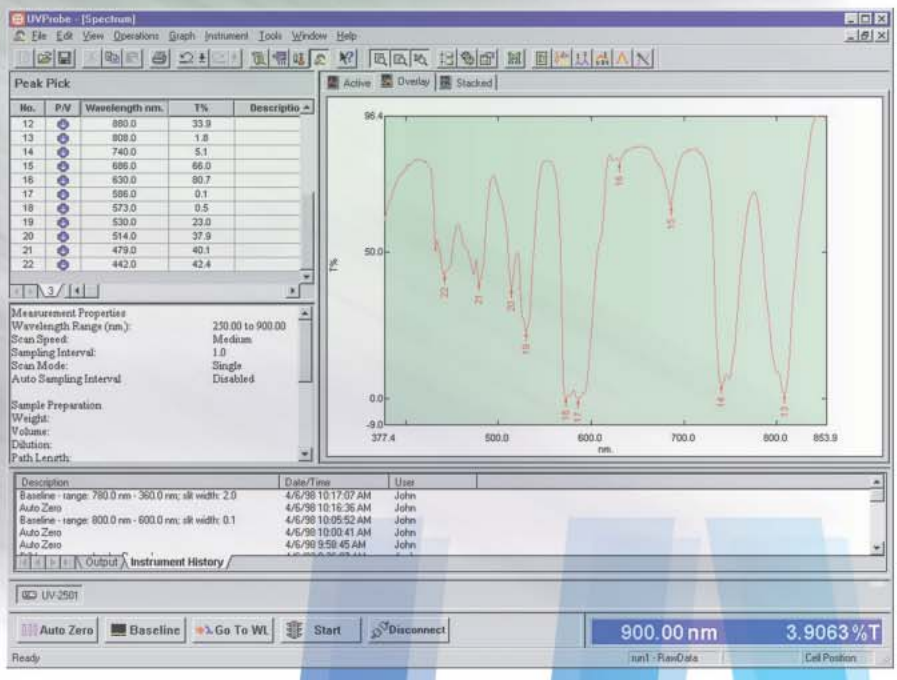
Access to your success

SHIMADZU

UV Probe

Software package for UV-Vis Spectroscopy

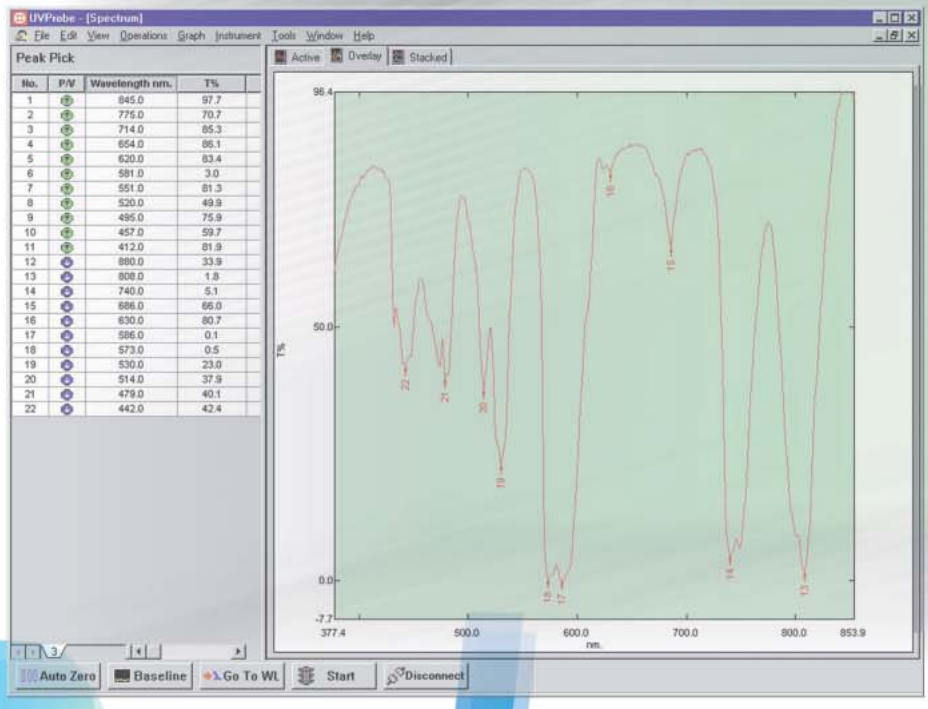
Revolutionary Software Spectroscopy to the next

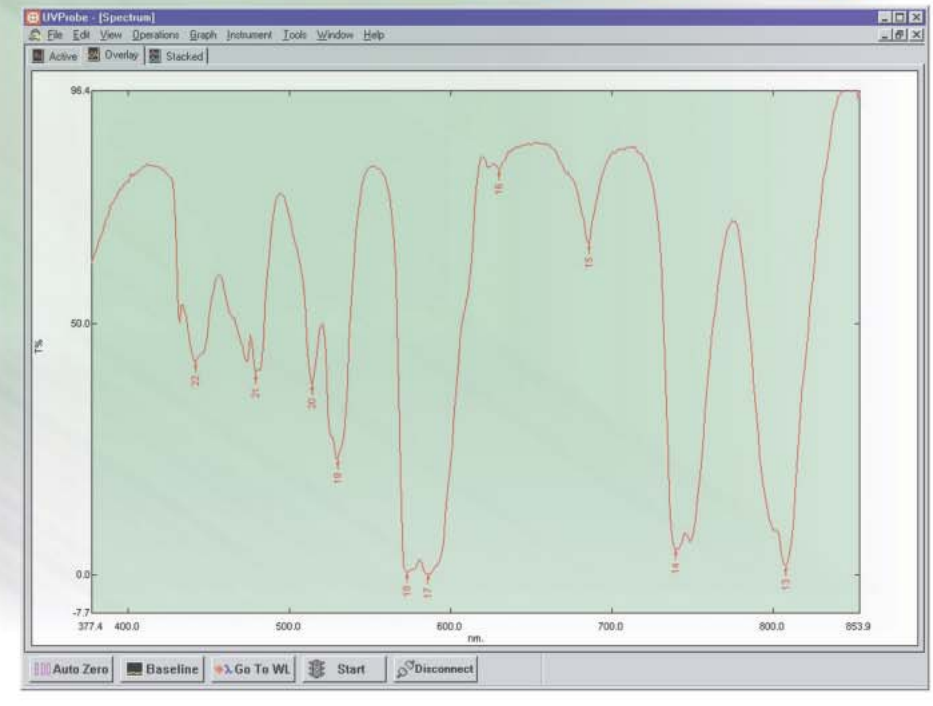


Shimadzu has now taken spectroscopy to the next level with the powerful, flexible and easy to use UVProbe software. This package is specifically engineered for Windows 2000/XP. Its standard data acquisition modes, vast data processing capabilities, and robust report generator provide the ultimate tool for your UV-Vis solutions.

This 32-bit package, for use with the UV-1600 series, 2400 series, and 2500 series UV-Vis spectrophotometer, has been designed to accommodate every level of operation, from beginner to advanced users. The software has the ability to show or hide any screen element to fit the users essential operating needs for their specific application. The security feature allows the administrator to determine which operations a particular user groups can perform and logs the users name along with the operation in the history of the data set. Processing capabilities, and robust report generator provide the ultimate tool for your UV-Vis solutions.

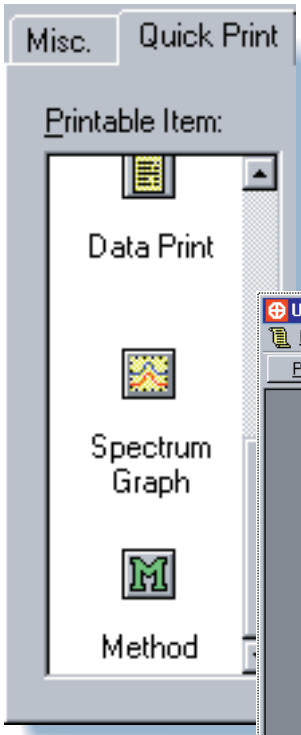
· · · *taking UV-Vis level*





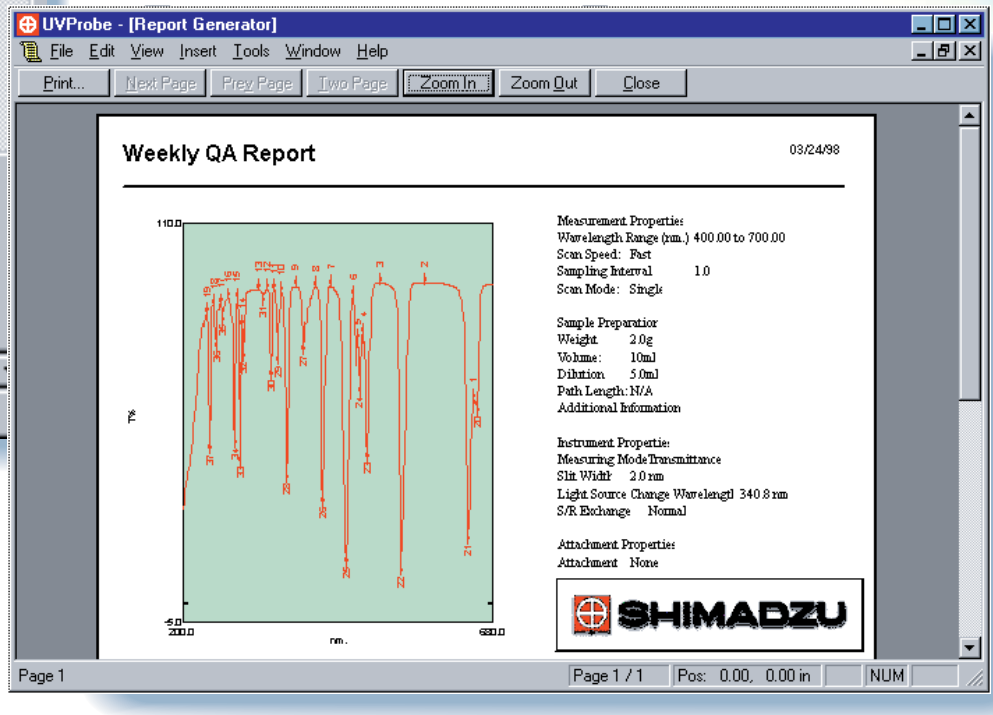
UV Probe

feature 1



The UVProbe software has incorporated a robust report generator that includes graphic import functions, multi-page layout capabilities, customizable WYSIWYG setup, and automatic quick print templates. The report generator has the capability to link data from a variety of different files and modes. It is also possible to import files from other programs such as Microsoft Office.

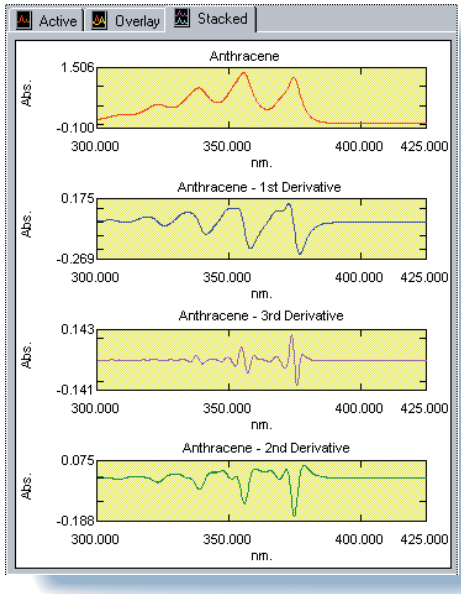
Report Generator Print Preview Screen



Spectral Comparisons

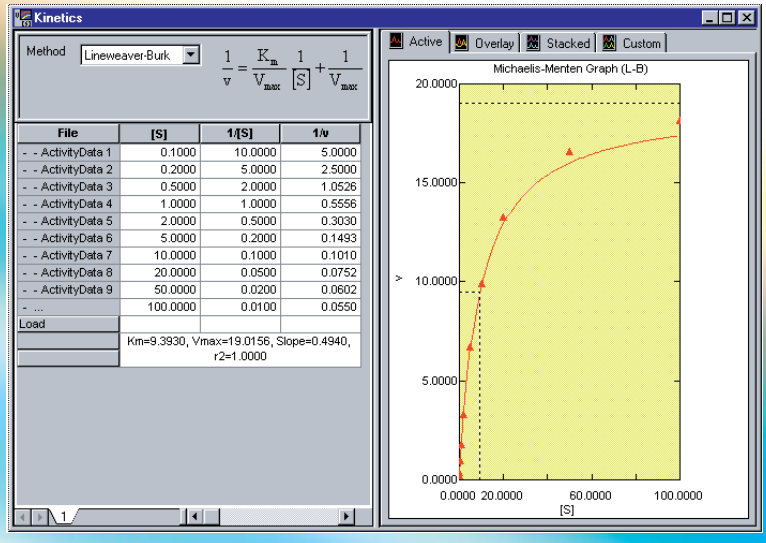
feature 2

Comparison of spectral data is frequently used to identify active ingredients in pharmaceuticals. Matching peak maxima indicate that two materials are similar. With UVProbe software, a sample and standard can be compared visually using graphs of raw or derivative data. In addition, unlimited numbers of peaks and valleys and their corresponding wavelengths and absorbances can be displayed in point pick or peak pick tables. Samples can be merged together into one graph or separated for further examination. This software supports single or automated UV-VIS sampling accessories.



Stacked Spectrum of Anthracene with derivatives

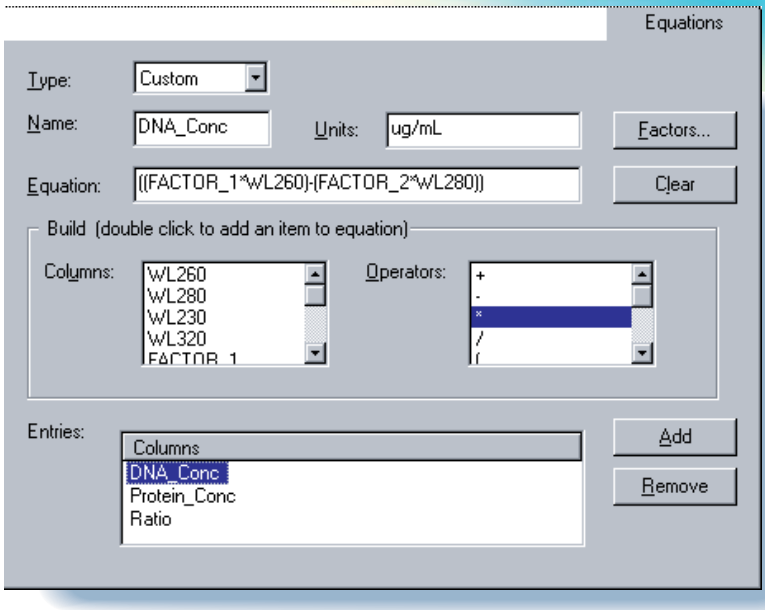
Multiple Displays Allows Convenient Kinetic Studies



Biochemical and biomedical research projects often involve studies on the mechanisms of enzyme-catalyzed reactions. Once single or muliple wavelength absorbance data is gathered as a function of time, the reaction rate can be determined. With the UVProbe software, transformations including Michaelis Menten, Hill and Inhibitor plots can be selected and simultaneously displayed on the screen.

Enhanced Photometrics for Biological Samples or QA Labs

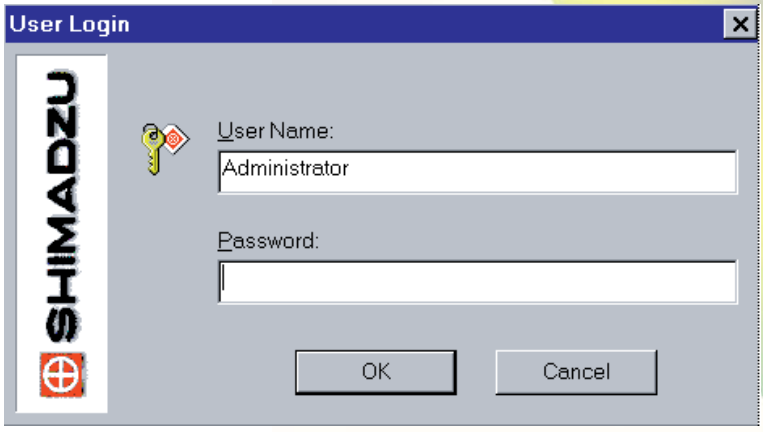
The determination of DNA purity or protein concentrations in biological samples are the most common assays performed in the life science laboratory. The UVProbe software supports multiple factors and custom equations for the benefit of the life science laboratory as well as for specialized applications. With these equations, the user can view results on standards and samples and compare the two using the standard error of prediction. Tolerances can be added for the Quality Control laboratory to flag acceptable vs. Unacceptable values.



UV Probe

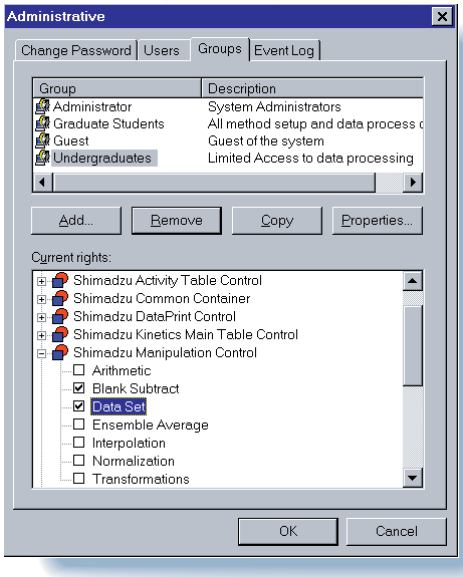
feature 5

GLP compliance has never been easier!



With its enhanced security capabilities and instrument history log, UVProbe software makes it easy to be GLP complaint. When security is enabled, it requires an immediate log-in for each user. From this point, all operations on the instrument and the software are recorded with a stamp of the specific operator including the time and date.

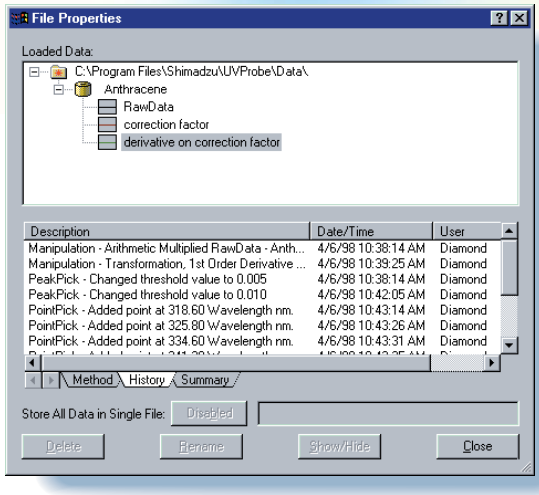
Software Login Screen



New users and groups are easily configured from the security menu. This setup will allow the administrator to determine every operation the user will have access to including acquisition, data processing capabilities, cut & paste functions, and printing.

New User Group Setup Screen

With the history log function, all processed data is stored with the detail as to the exact operation performed and is saved along side the original data for easy retrieval and tracking.



Data History Tracking

Software Capabilities:

Operating System:	Windows 2000/XP
Instruments:	UV-1600 series, UV-2400 series, and UV-2500 series,
Data Acquisition Modes:	Spectrum, Kinetics, and Photometric
Spectrum Mode:	• Unlimited Spectrum Display* • Option to save all original data within a single file • Save all processed data with the original data set including a history of all manipulations. • Easy configuration of all accessories including multicell positioners
Data Processing Functions with the Spectrum Mode:	• Normalization, Unlimited Point Pick, Unlimited Peak Area Calculation, • Transformations: 1st-4th Derivatives, Smoothing, Reciprocal, Square Root, Natural Log,Logarithm,Power, Abs. to %T conversion, and Exponential. • Ensemble Averaging, Interpolation, Data Set and Constants Arithmetic including +, -,÷ and Blank Subtraction.
Photometric Mode	• Unlimited Number of Custom Equations with the following operations: Add, Subtract, Divide, Multiple, Logarithm, Conversations, Exponential, Parenthesis. Equations can be performed using multiple wavelengths, factors, constants, and previously entered equations. • Pass/Fail Indication • Measure a point or a wavelength range with the ability to determine the peak, valley, maximum, minimum, or peak area for quantitative analysis. • Unlimited Sample Repetitions including delayed sample readings, prompt before repeat, auto scan, and timed repeat. • Multi-point, Single point, K-factor calibration curves for a fixed wavelength, ratio, difference, or 3 wavelength net absorbance. • 1st, 2nd, and 3rd Order Curves with zero interception capability. • Display Standards and Sample tables simultaneously with calibration curve and sample curve. • Standard Error of Prediction. • Support of accessories.
Kinetics Mode	• Unlimited number of displayed Time Course/Kinetics Curves* • Display kinetics curves with Michaelis-Menten tables and graphs simultaneously. • Michaelis-Menten calculations including Hill and Inhibitor tables,and custom graph layout for viewing multiple transformations simultaneously. • Single or double wavelength measurement (difference or ratio). • Sample preparation information sheet with weight, dilution and volume saved with original data. • Auto increment file names and save multicell data into one file. • Event recording and delay/pause feature for adding substrates.
Report Generator	• Quick report templates. • `What you see is what you get´ (WYSIWYG) report layouts and print preview. • Multiple page reports • Insert drawing objects including Text, Lines, Circles, Rectangles, and Linked Text. • Layout a single report with data from any acquisition mode including graphs,tables,data set history, and method parameters. Quickly insert objects such as Bitmap images, and Text Files. • Headers and Footers can be easily inserted to print on a single page or every page.

*Typically 20~30 spectra, depending on the specifications (RAM) of a PC.

SHIMADZU

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