

V1100 Spectrophotometer

Data Processing Software

User Manual

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1. Installation

Put CD into your CD-ROM drive. In the CD-ROM root directory, double-click Setup.exe to start the installation progress.

2. Menu commands

User can use mouse or shortcut keys to execute corresponding menu commands.

3. File operation commands

Standard sample

In the menu of standard sample, you can enter into the page of standard sample operation. In the window, first use mouse to select the location of concentration input and double click the location, then input concentration value of standard sample with keyboard, when cursor appears. Press PB key on instrument keyboard, data will be transferred to the corresponding row. do it in order as per quantity of standard sample. Click the page of curve to set up curve after finish input.

Sample

In the menu of sample, you can enter into the page of analysis operation for unknown sample. If equation is available, press PC key on instrument keyboard. data will be transferred to the corresponding row, and the concentration value will be calculated.

Curve

In the menu of curve, you can see the working curve set up after standard sample is measured, working equation and related coefficient.

Open file

on file open dialog box, read the file saved to disk. The default file suffix name is APL.

Save file

on file save dialog box, save current data to disk as a file. The default file suffix name is APL.

Save the file as

The default file suffix name is APL.

Set printer

If the printer is not default, set the printer first on the window of set printer.

Print file

Print preview window appears before print. Close the window if do not need print. If print, click the print icon and begin to print.

4. Option operation commands

Method of undetermined coefficients

Set up working curve with measured data for standard sample, make an analysis of unknown sample.

Coefficients input method

Input coefficient direct in the case of known working curve coefficients, make an analysis of unknown sample.

Set port operation commands

Set serial port to connect to instrument.

The instrument serial port data's baud rate is 9600, Data bits is 8, parity digit is none, and Stop bit is 1.

5. Set up curve

You can calculate a curve on the menu of curve or the page of curve after finish the measurement of standard sample. You can also make curve fittings for the data of standard sample.

The function of equation switching button is make a switching between sample analysis curve and standard curve. sample analysis curve is the one that use absorbance as independent variable, while standard curve is to use concentration as independent variable.

Note:

1. you must use 9-core connecting cable when connecting to computer to process data.
2. you can manual input data (photodensity-A, Concentration-C) to obtain corresponding curve and related coefficient.