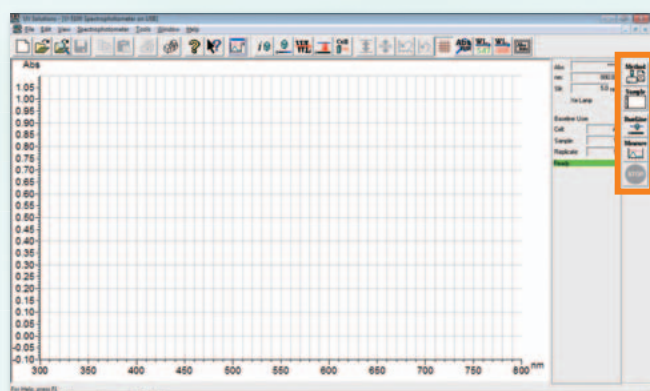


# UV Solutions Program (3J2-0310)

(for Windows®7)

This software allows the control of Hitachi spectrophotometers and multiple data processing operations using a PC.



UV Solutions Initial Screen

Enlarged tool bar

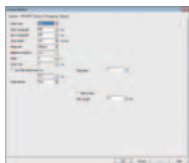


Compatible instruments

**Basic Flow of Analysis** (operating buttons are located on the right side of the initial screen, allowing 4-step basic operation.)

## Analytical Condition Settings

Select a measurement mode to set the analytical conditions



Screen for setting analytical conditions

## Input Sample Settings

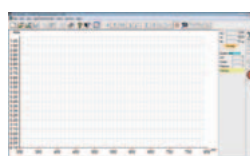
Input the sample name, comment, filename, and location to save the data.



Screen for sample settings

## Baseline/Auto-zero Settings

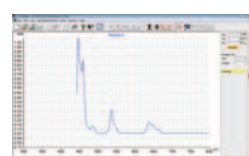
Execute a baseline correction or auto-zeroing



Screen for baseline measurement

## Measurement Start

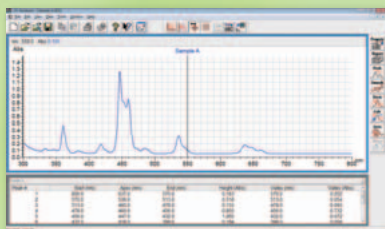
Start the measurement



Screen for sample measurement (spectrum)

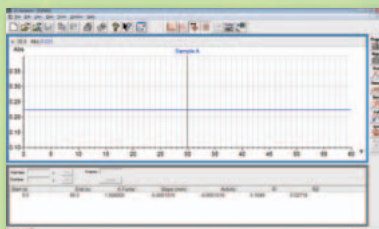
## Introduction to Measurement Mode

### Wavelength Scan



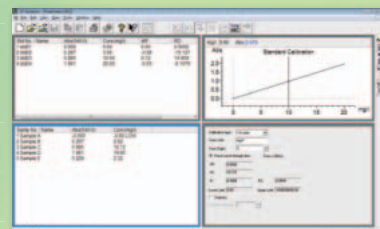
Both absorption and transmission spectra can be measured. After a measurement, multiple data processing operations can be performed, including peak detection, tracing, scale changes, smoothing, differentiation, four arithmetic operations between spectra, and graph axis conversion.

### Time Scan



The photometric value (absorbance, transmittance) at a fixed wavelength can be measured. This function can be utilized to confirm sample decomposition based on a change in absorbance. It also allows rate calculations suitable to calculate the absorbance change per unit time, when measuring an enzymatic reaction.

### Assay

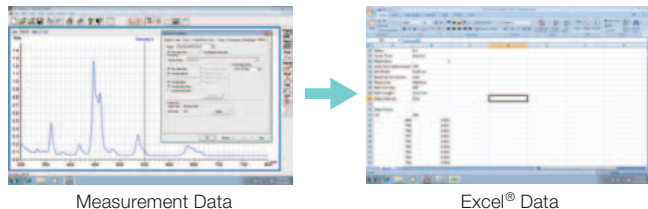


By generating a calibration curve based on standard solution measurements, an unknown sample can be assayed. In addition, a multi-wavelength measurement which allows the measurement of absorbance and transmittance at a maximum of 6 wavelengths, as well as ratio calculations can be performed.

# Support for Report Preparation

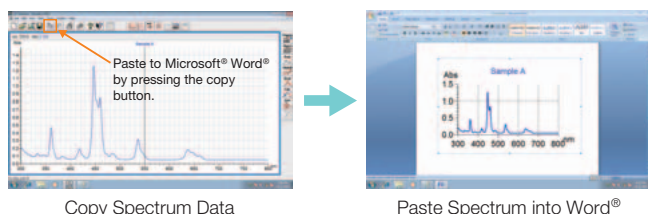
## ●Data transfer to Microsoft® Excel®

Measurement results can be transferred to the Excel® spreadsheet software.



## ●Copy, Paste, and Edit of Spectral Data

The scale, rulings, line patterns, and color of spectral data can be edited after copying and pasting it to off-the-shelf software, such as Microsoft® Word® and PowerPoint®. These operations allow report preparation.



## ●Report Generator (Optional)

The reporting format of the measurement results can be freely customized.



Printout in the specified format by Report Generator

- (1) The position and size of the graph can be specified.
- (2) The template can be easily edited. Multiple templates can be saved and selected according to a variety of uses.
- (3) The specified format can be automatically provided from measurement to printout.
- (4) File-based preservation of reports is also available. Re-editing is supported. The use of your saved files, recalculations, and the creation of tables and graphs are also supported.

## Supported models

U-4100, U-3900H, U-3900, U-2900, U-2910, U-1900, U-5100

## Specifications for the PC(not included)

OS	Windows® 7
Memory	Minimum 1 GB (2 GB or more is recommended)
HDD	Available capacity of 5 GB or more
Display	Resolution of 1,024 x 768 dots or more
CD-ROM	24 x or more is recommended
Interface	USB 1.1/2.0 or RS232C
Other	Microsoft Excel® 2007

## Functional Specifications

Measurement mode	Wavelength scan, Time scan, Photometry
Data processing	Spectrum trace, Scale change, Smoothing, Peak detection, Graph axis conversion, Spectrum operation, Differentiation, Rate calculation (Time scan)
Spectrophotometer control	Wavelength shift, Auto-zero (100%T Adjustment), Automatic wavelength calibration
Measurement condition	Analytical condition setting Condition saving. Condition loading
Record and display	Input of sample name and comment Ruled line record ON/OFF Spectrum record and display Color change Spectrum saving Spectrum loading Data list print Overlay conversion
Utility	File conversion (ACC II text file)

\*The U-5100 is compatible with firmware newer than P/N: 3J2-5300-03.

\*Windows®, Microsoft®, and Excel® are registered trademarks of Microsoft Corp., USA.

\*The UV Solutions display screens shown in this brochure are from the U-5100, and may differ partially from those for different models.

NOTICE: For proper operation, follow the instruction manual when using the instrument.

NOTICE: Although the information contained herein has been reviewed, Hitachi High-Technologies Corporation makes no warranty or representation as to its accuracy or completeness.

Specifications in this catalog are subject to change with or without notice, as Hitachi High-Technologies Corporation continues to develop new technologies and products for our customers. Not all products are available in all countries. Please contact your local sales representative for details.

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