

# Application News

## No. A608

### Spectrophotometric Analysis

## Quality Verification Testing Using VisEase™ Simple Control Application

Ultraviolet and visible light (UV-Vis) spectrophotometers are used routinely in various industries for raw material receiving inspections and confirmation of product quality. VisEase, is simple control application that can be operated on a personal computer, and is a simplified application program that includes only the minimum interface necessary for measurements. Narrowing the range of operational applications in VisEase responds to customer needs by minimizing the operational procedure before the start of measurement, and providing an easy-to-use option for work that does not require data processing and analysis.

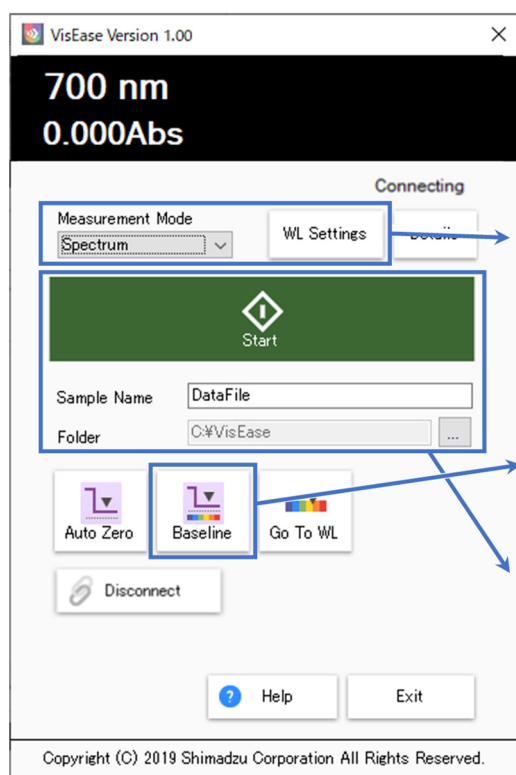
This article introduces the simplicity of VisEase in an example of quality verification testing of pure water.

It should be noted that VisEase control is only applicable to Shimadzu UV-1280 and UV-1900 Series spectrophotometers.

K. Maruyama

### ■ Features of VisEase

The UV-1280 and UV-1900i currently available from Shimadzu are models that enable operation from the touch panel or keyboard attached to the body of the spectrophotometer. The UV-1900i can also be operated from a personal computer by using the dedicated control software LabSolutions™ UV-Vis. In addition to measurement, LabSolutions UV-Vis also includes a variety of evaluation functions and a pass/fail judgment program. Because the VisEase application introduced here has only the minimum necessary functions, it is easy to understand, even for first-time UV-VIS spectrophotometer users, and also easy to use in everyday routine work. Fig. 1 shows the VisEase operation screen and measurement procedure. When the program is opened, it connects automatically to the device and measurement can begin immediately. If the measurement conditions are set in advance, measurement is completed simply by inputting the sample name and clicking the start button. Data can be output in either the text format or Excel format.



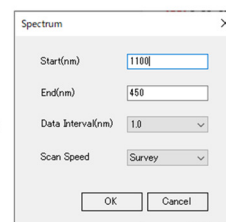
### ◆ Measurement procedure (Spectral measurement)

#### 1 Start the device and open the application.

VisEase is connected to the device simultaneously with startup.

#### 2 Set the measurement conditions.

Three measurement modes can be selected: Spectrum, Photometric, and Time Course. Set the wavelength, scan speed, and other conditions.



#### 3 Measure the baseline.

When measuring a solution, set the solvent.

#### 4 Start the measurement.

Input the sample name and click the start button.

#### ✓ Measurement conditions can be saved.

When conducting measurements under the same conditions, only steps 1→3→4 are necessary.

### ◆ Output methods

- Output text file
- Export to Excel

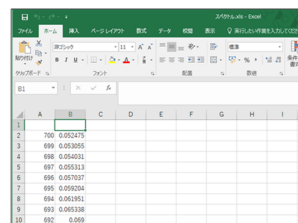
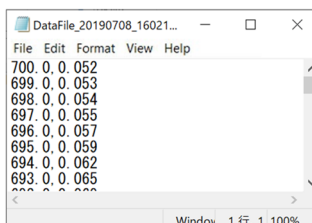


Fig. 1 VisEase Operation Screen and Measurement Procedure

