

Application News

No. A539

Spectrophotometric Analysis

Introducing the Guidance and Report Creation Functions in AIMsolution

The AIMsolution software of the AIM-9000 infrared microscope features a guidance function. This function provides assistance throughout the analysis sequence from instrument initialization to measurement. Since guidance can be displayed or hidden, this function allows inexperienced users to operate the software effectively.

Regarding the creation of analysis result reports following spectrum measurement, in addition to printing in a standard format, reports can be easily output in Microsoft Word format. This enables users to edit reports freely and store them as electronic files.

This article introduces these two functions.

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■ Guidance Function

Clicking [Guidance] located at the upper left of the AIMsolution Measurement window in Fig. 1 displays the guidance pane shown in Fig. 2 at the left edge of the window (red frame). Measurement can be performed smoothly according to the displayed instructions by selecting each menu in turn starting from the top of the list.

As an example, Fig. 3 shows an enlarged view of the "Register Measurement Points" guidance. The guidance describes the buttons to click, tips on settings, precautions, and other information with illustrations. In addition, since the locations of buttons are emphasized by a yellow frame, instructions are also visually easy to follow.

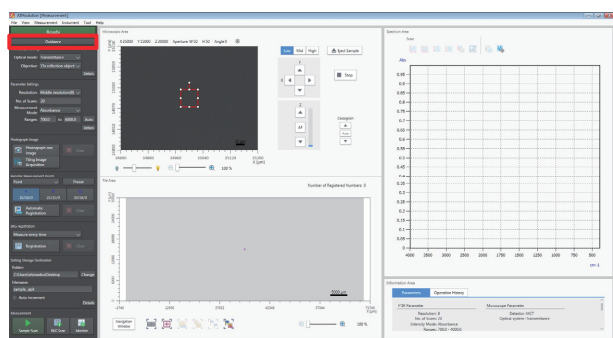


Fig. 1 AIMsolution Measurement Window

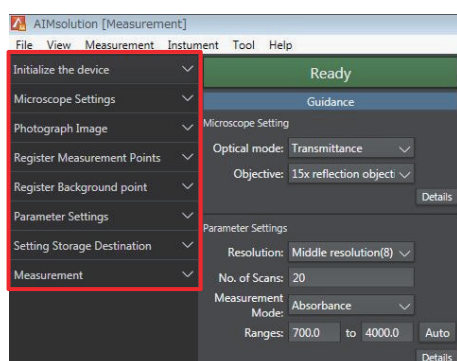


Fig. 2 Guidance Pane

Register Measurement Points ^

Up to 60 measurement points can be set.

- ① Click the button of an arbitrary aperture size in [Register Measurement Points]. Moving the cursor on the microscope screen displays an aperture at the selected size.
- ② Clicking the microscope screen creates an aperture frame and registers a measurement point.
- ③ Right-click in the microscope screen to stop registration.
- ④ The aperture can be operated as follows.

[Moving]

[Rotating]

[Changing size]

■ Deleting the aperture

- ① Right-click on the aperture frame and select [Delete] in the menu.
- ② Clicking the [Clear] button in [Register Measurement Points] deletes all apertures.

■ Registering preset apertures
A frequently used aperture sizes can be registered in the preset.

- ① Click [Preset] in [Register Measurement Points].
- ② Change the aperture size to a desired one.
- ③ Click [OK]. The button size registered in [Register Measurement Points] will be changed.

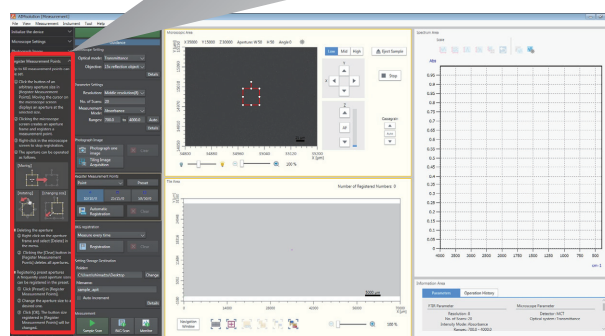


Fig. 3 AIMsolution Measurement Window and Enlarged View of the "Register Measurement Points" Guidance

Report Creation Function

Since measurement data is automatically transferred from AIMsolution Measurement to AIMsolution Analysis once spectrum measurement is complete, manipulation and spectrum search may then be performed as required. Users then only need to click the [Print] button (red frame) in the AIMsolution Analysis window in Fig. 4 to print the spectrum displayed in the Data View area (green frame), the spectrum after manipulation, and search results in a standard report format. Fig. 5 shows the Print Preview window. Clicking the "output to Word" button (red frame) in Fig. 5 enables users to save reports in Microsoft Word format, the result of which is shown in Fig. 6. This function is very useful because users can then edit the layout and add or delete text and graphs in the Word file.

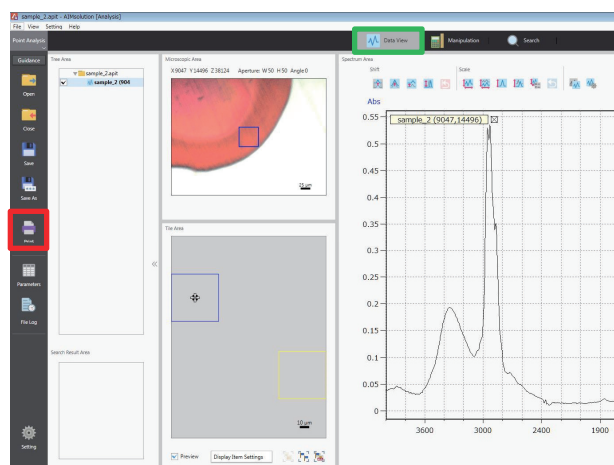


Fig. 4 AIMsolution Analysis Window

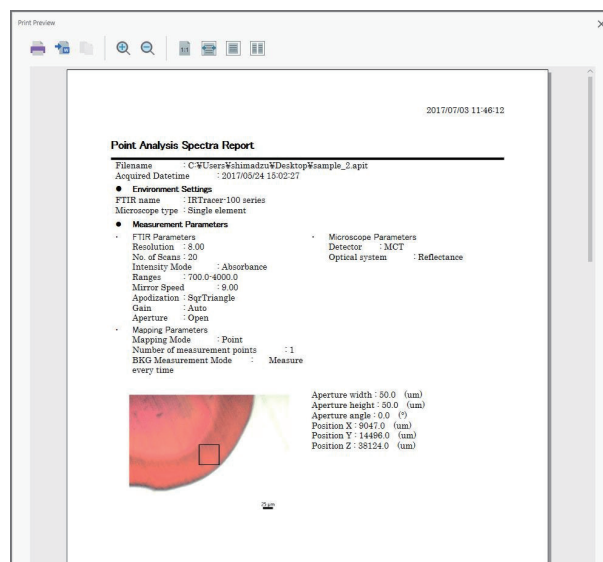


Fig. 5 Print Preview Window

Conclusion

The AIMsolution guidance function and report creation function introduced here enable users to comfortably use the AIM-9000 infrared microscope by the correct procedures, even for those who are inexperienced in using the software.

Note that standard operating guides are also available from Shimadzu. For details, contact your Shimadzu representative.

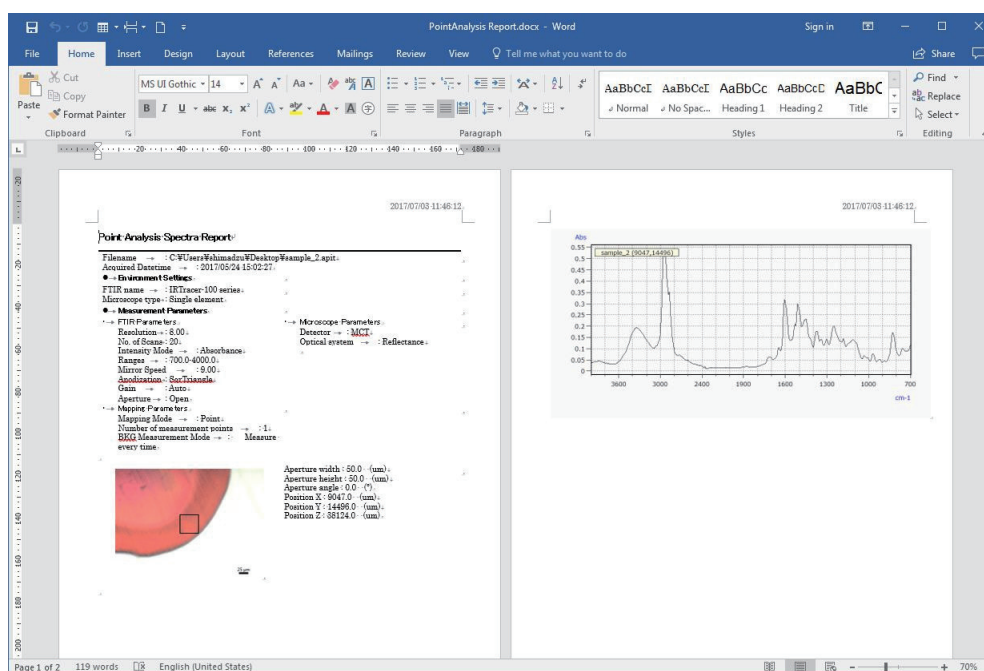


Fig. 6 Example of Output to Word



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