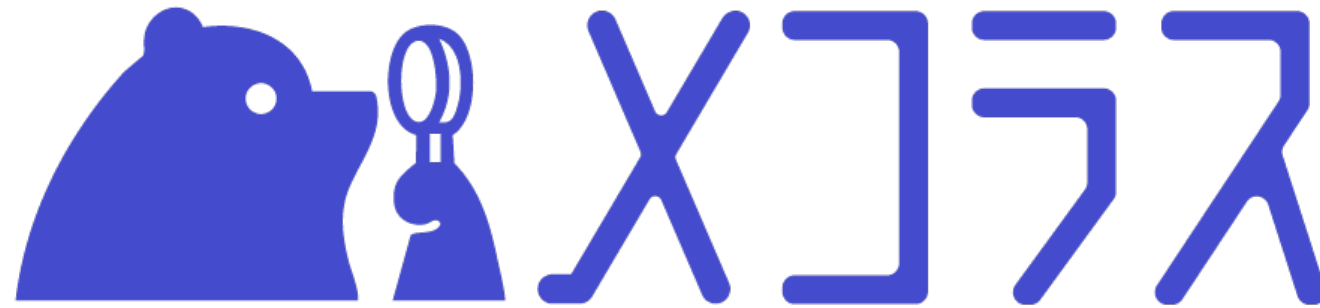


mekolas



—AI Asbestos Detection Support System—

User Interface & Features


Language Availability & Interface Notes

At present, Mekolas[®] is available only in the Japanese version. The interfaces shown in this document have been rendered in English for explanatory purposes.

As of June 2026

System Operation – Configuration Screen

Select the image folder

[1]  [1]

Note: Do not use double-byte characters such as hiragana in folder or file names for image storage destination.

[2] **Case name:** Specify a name for the output results.
Pixels: Specify the number of pixels per 100 μm (*)
Output destination: Specify or create a new folder to save the results.

[3] Click to proceed to the image selection screen.

Note: The AI model has been trained using microscopic images with a resolution of 500 to 1000 px per 100 μm . If resolution is outside this range, accuracy may decrease.

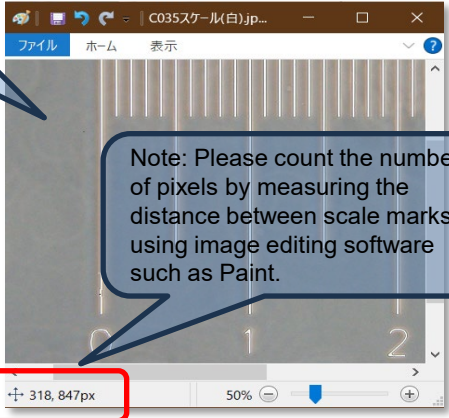
Note: Please count the number of pixels by measuring the distance between scale marks using image editing software such as Paint.

Parameters & Settings

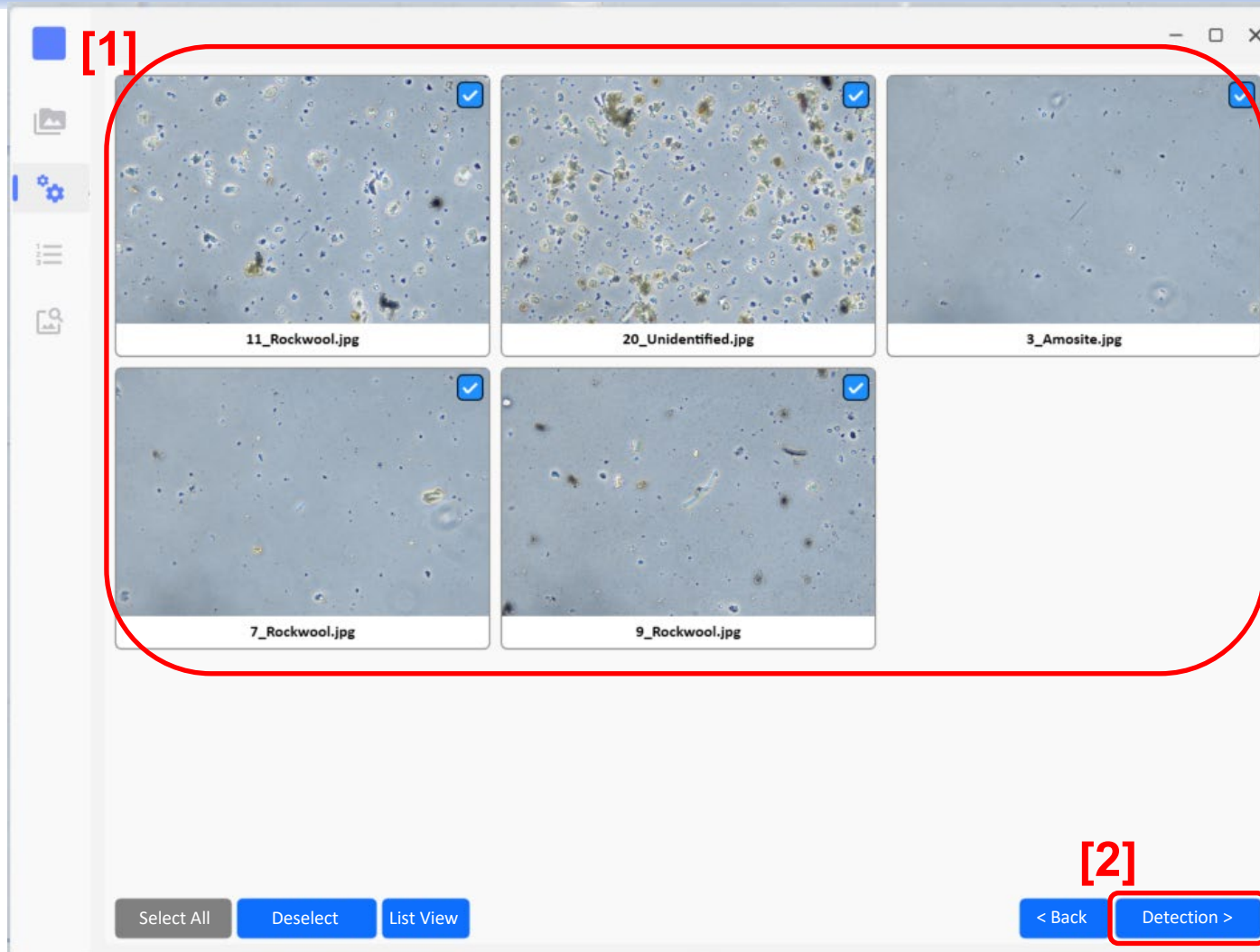
Case Name	<input type="text" value="C"/>
Number of Pixels	<input type="text" value="1080"/> Pixel/100 μm
Output destination	<input type="text" value="C:\MEKORAS\2025beta\work\inputs"/> <input type="button" value="Select Folder"/>

Open Analysis Results

[3]

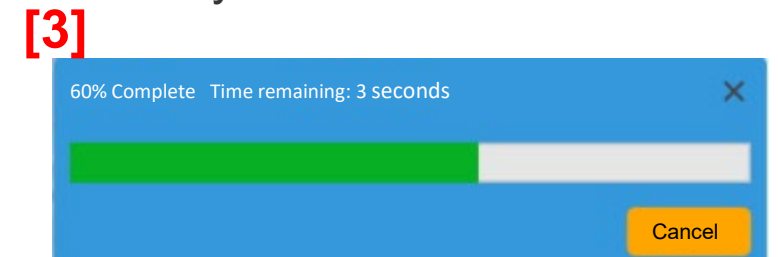


System Operation – Select Images for Analysis and Perform Automated Detection



• When capturing microscopic images, please use **bright-field** illumination. In addition, ensure that the outlines of fibrous material can be clearly confirmed.
• The image file extension must be **.jpg (lower case)**. If the extension is uppercase (.JPG), the image will not be loaded (this will be corrected in a future release).

- [1] Select the image to be analyzed.
- [2] Click to execute automated detection.
- [3] Automated analysis is in progress. Upon completion, the system proceeds to the analysis result list screen.



System Operation – Results List Screen

Detail	File Name	Counting Target	Not Applicable	Review Require
[1]	02.jpg	5	2	0
	08.jpg	1	1	0

概要	2件の結果	6	3	0
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[2] CSV < Back

Displays counting results for each image.

[1] Click to view detailed counting results details by image.

[2] Perform CSV output of the detection results list.

System Operation – Detailed Analysis View

The screenshot displays the 'Detailed Analysis View' of the JANUS software. On the left, a microscopy image labeled '02.jpg' shows a dark field with various particles and fibers. On the right, a 'Detection Results' table lists the following data:

No.	Length [μm]	Width [μm]	Aspect Ratio	Classification
0	36.7	0.8	46.7	CT
1	4.1	0.7	6	N/A
2	13.6	0.9	15.6	CT
3	1.8	0.4	4.5	N/A
4	8.9	0.9	10.2	CT
5	65.4	1.8	36.6	CT
6	16.4	0.9	17.4	CT

At the bottom of the interface, there is a toolbar with buttons for 'Export', search, and a toggle switch labeled 'Detection Results Display'. A red box highlights this toggle switch, and a red '[1]' is placed next to it, indicating the instruction to click it to highlight detected fibrous materials.

Displays details for each image.

[1] Click to highlight detected fibrous materials.

System Operation – Detailed Analysis View

No.	Length [μm]	Width [μm]	Aspect Ratio	Classification
0	36.7	0.8	46.7	CT
1	4.1	0.7	6	N/A
2	13.6	0.9	15.6	CT
3	1.8	0.4	4.5	N/A
4	8.9	0.9	10.2	CT
5	65.4	1.8	36.6	CT
6	16.4	0.9	17.4	CT

Display detected fibrous materials with color highlighting.

System Operation – Detailed Analysis View

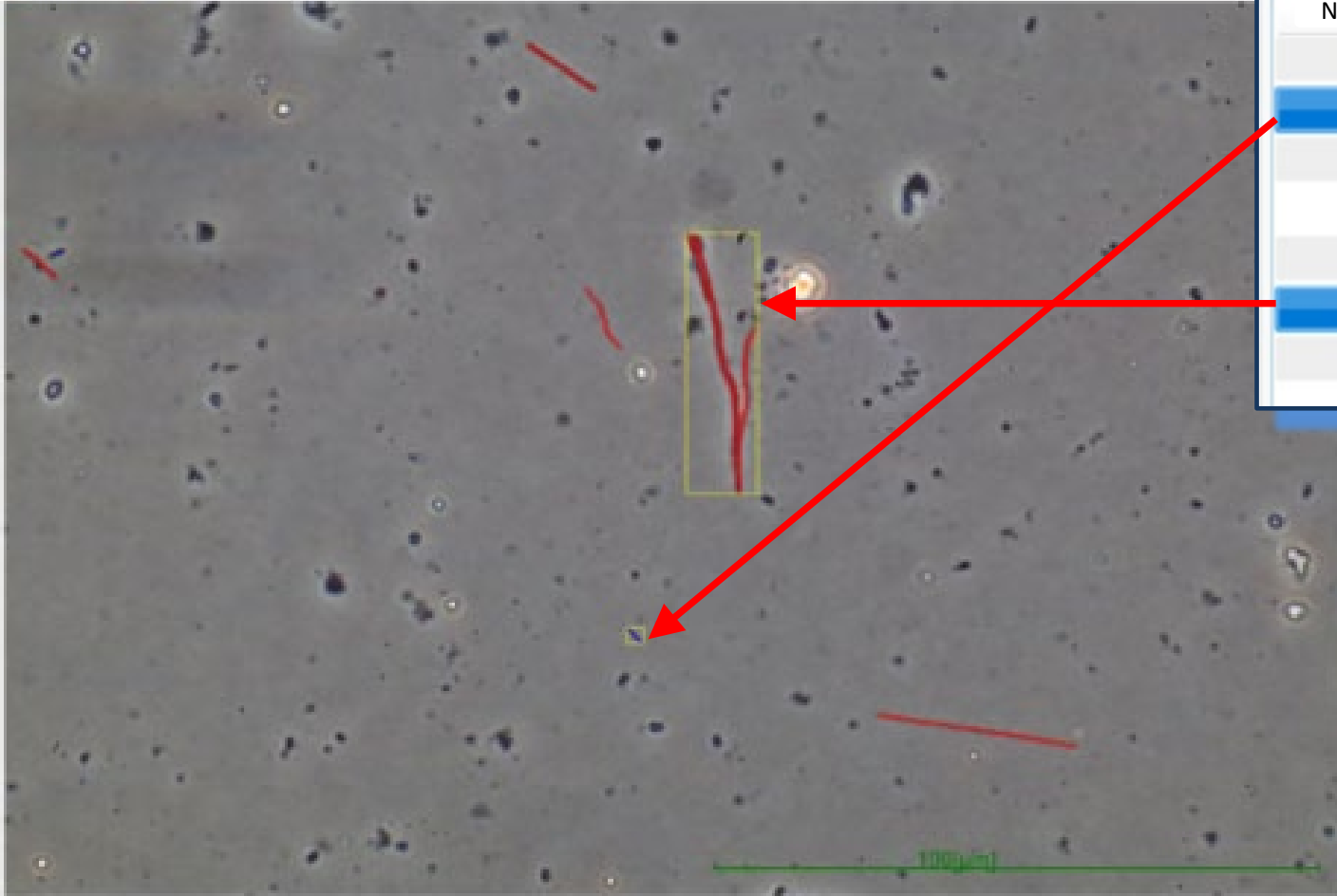
No.	Length [μm]	Width [μm]	Aspect Ratio	Classification
0	36.7	0.8	46.7	CT
1	4.1	0.7	6	N/A
2	13.6	0.9	15.6	CT
3	1.8	0.4	4.5	N/A
4	8.9	0.9	10.2	CT
5	65.4	1.8	36.6	CT
6	16.4	0.9	17.4	CT

Individual display of detected fibrous materials.

- [1] Click on a row in the results list to view individual detected fibrous materials.
- [2] Perform image output (includes color highlighting if applied).
- [3] Specifies the color of the rectangle.
- [4] Perform CSV output of the detection results list.

System Operation – Detailed Analysis View

02.jpg



No.	Length [μm]	Width [μm]	Aspect Ratio	Classification
0	36.7	0.8	46.7	CT
1	4.1	0.7	6	N/A
2	13.6	0.9	15.6	CT
3	1.8	0.4	4.5	N/A
4	8.9	0.9	10.2	CT
5	65.4	1.8	36.6	CT
6	16.4	0.9	17.4	CT

100 μm

System Operation – Detailed Analysis View

RA0070.jpg

Detection Results

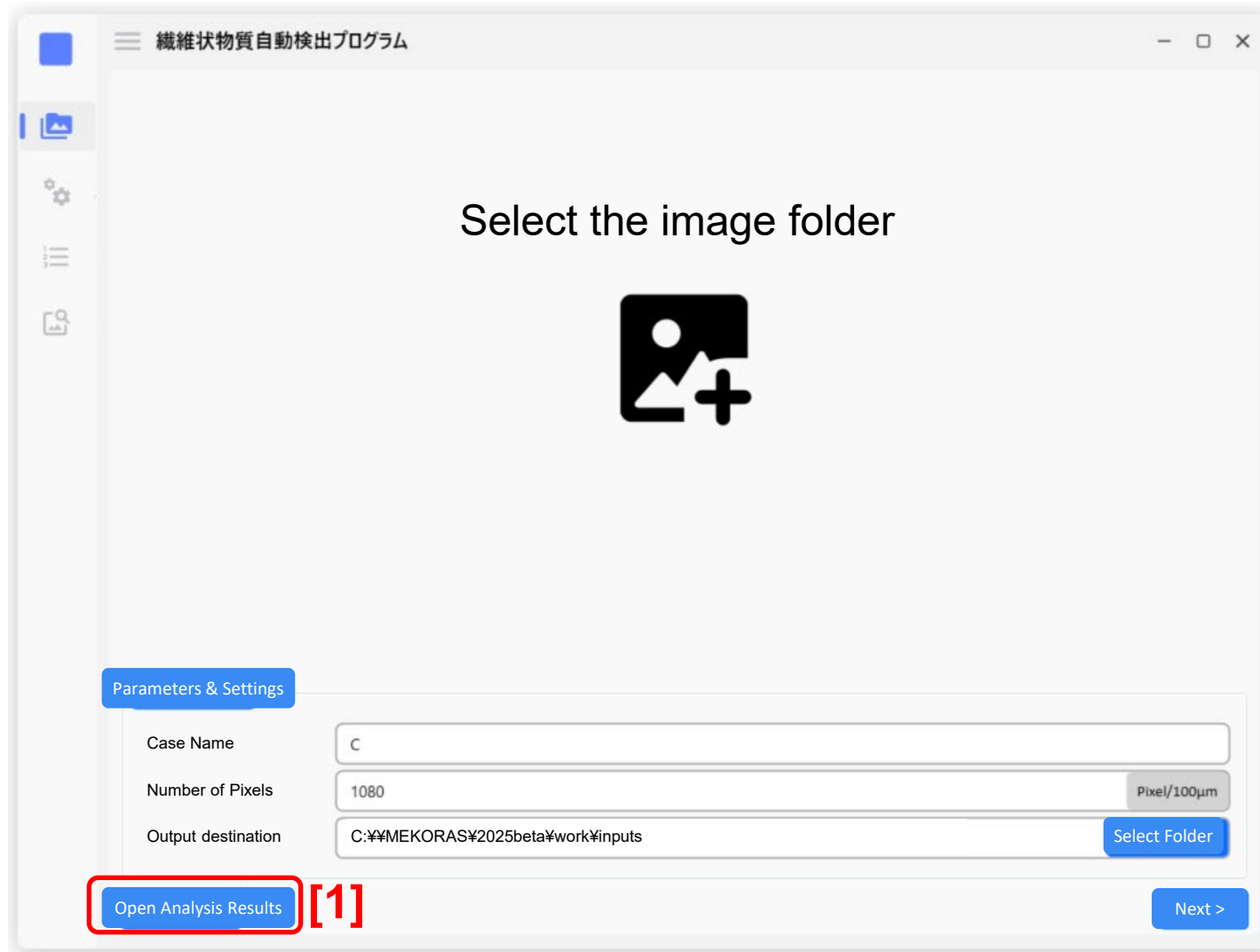
No.	Length [µm]	Width [µm]	Aspect Ratio	Classification
0	368.5	4.4	83.9	CT

Export [Zoom icons] Detection Results Display Image size: 2400 x 1600 [Color dropdown] CSV < Back

Non-countable fibrous materials

[1] Perform image output (includes color highlighting if applied).

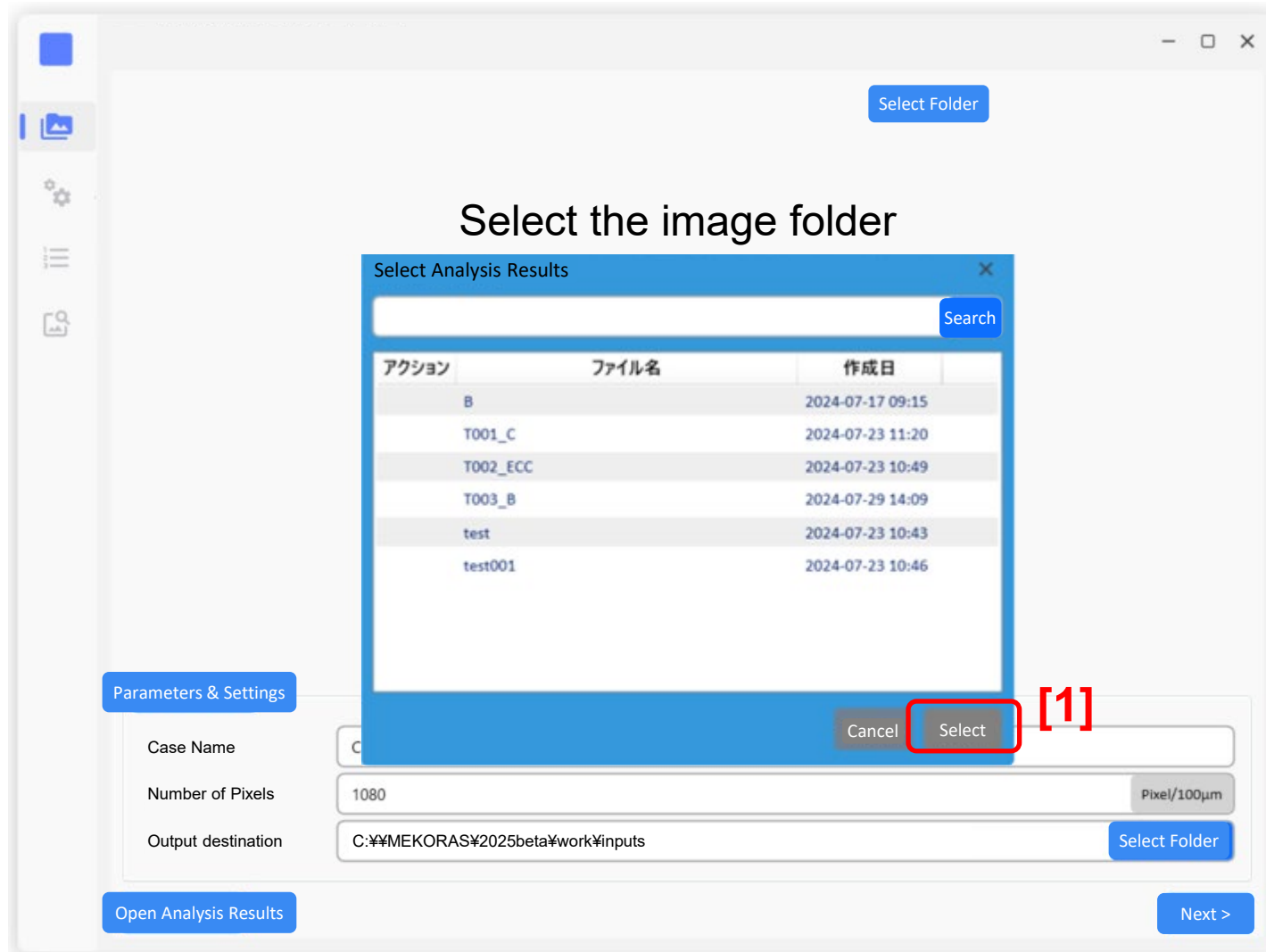
System Operation – Viewing Past Analysis Results



Redisplay saved detection results.

[1] Click to redisplay previous analysis results.

System Operation – Viewing Past Analysis Results



Redisplay saved detection results.

[1] Specify the desired analysis result and click Select to open the analysis result list screen.

System Requirements

- OS: Windows 10, 11 64bit
- CPU: Quad-core CPU or higher (Intel Core i5, i7, etc.) recommended
- Memory: 4GB or more of available RAM
- Storage: At least 5 GB of available space