



USER GUIDE

Open Data Plugin

Fiji Plugin — AODscope System

Reference document — Opening Acquisitions in Fiji

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1. Purpose of this document

This document describes how to install and use the **Open data** plugin for Fiji. The plugin lists the snap and stack acquisitions of an experiment folder and opens the selected acquisitions in Fiji, with the pixel size read from the acquisition .ini file.

Where to find the plugin

Once installed, the plugin is available in the Fiji menu **Plugins > AODscope > Open data**.

2. Installation

1. Close Fiji if it is running.
2. Copy the file AODscope_Open_Data.jar into the plugins folder of your Fiji installation (for example C:\Karthala_system\Fiji.app\plugins).
3. Start Fiji, or use **Help > Refresh Menus** if Fiji is already open.
4. Check that the entry **Plugins > AODscope > Open data** is present.

3. Expected data organization

The plugin looks for snap and stack sub-folders (upper or lower case) in the experiment folder. Each acquisition is a folder inside them, containing its .tif images and its .ini file:

```
2026_10_22/  
|-- snap/  
|   |-- snap_001/    (images *pmt1*.tif, *pmt2*.tif + .ini file)  
|-- stack/  
|   |-- stack_001/
```

The experiment folder can be either a **day folder** (as above) or a **parent folder** containing several day folders. In the second case, the name of the day folder is added at the beginning of each entry of the list.

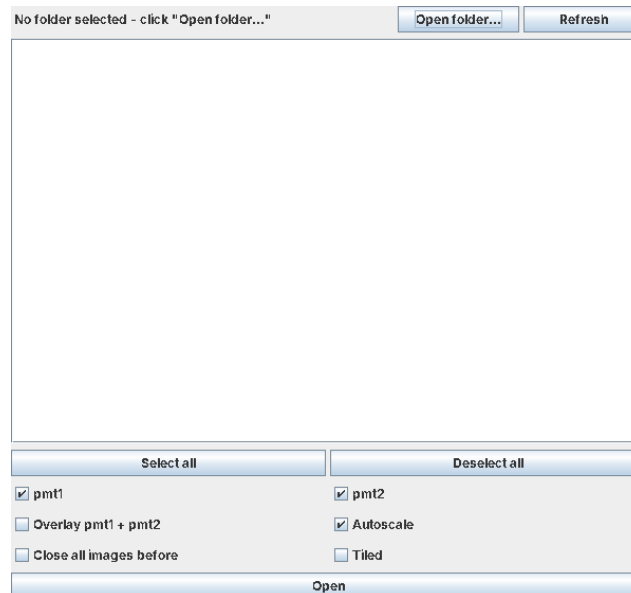
Image file names

Only .tif / .tiff files whose name contains pmt1 or pmt2 are opened. Other files are ignored.

4. Opening procedure

1 Start the plugin

Click **Plugins > AODscope > Open data**. The plugin window opens with an empty list and the message “No folder selected”.



Plugin window at start-up

2 Choose the experiment folder

Click **Open folder...** and select the experiment folder. The list is filled with all the snap and stack acquisitions found, and the window title shows the name of the folder.

During an acquisition session, click **Refresh** to read the folder again. New acquisitions are added to the list, the current selection is kept, and the counter shows how many acquisitions are new.

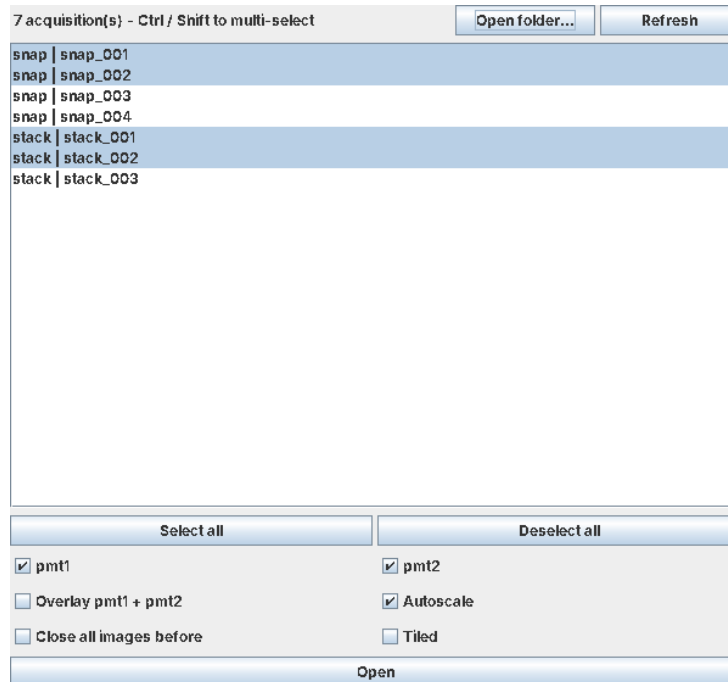
i Another experiment

Open folder... can be used again at any time to switch to another experiment folder.

3

Select the acquisitions

Click an acquisition to select it. Use **Ctrl + click** to add or remove an acquisition, and **Shift + click** to select a range. **Select all** and **Deselect all** act on the whole list.



Plugin window with the list of acquisitions (example data)

4

Choose the options

Tick the channels to open (**pmt1**, **pmt2**) and the display options (**Overlay**, **Autoscale**, **Close all images before**, **Tiled**). Each option is described in section 5.

5

Open the images

Click **Open**. For each selected acquisition, the pmt1 and/or pmt2 images are opened with the pixel size applied. The window stays open, so that other selections can be opened afterwards.

i No image found

If the selection contains no pmt1 / pmt2 .tif image, the message “No image” is displayed.

5. Buttons and options

Buttons

Button	Action
Open folder...	Chooses another experiment folder and reloads the list.
Refresh	Reads the current folder again to find new acquisitions. The selection is kept.
Select all	Selects all the acquisitions of the list.
Deselect all	Clears the selection.
Open	Opens the selected acquisitions.

Options

Option	Effect
pmt1 / pmt2	Opens the .tif images whose name contains pmt1 and / or pmt2. Both are ticked by default.
Overlay pmt1 + pmt2	Creates an RGB image named <acquisition>_overlay (pmt1 in green, pmt2 in red). Both channels are opened, even if only one is ticked. The original pmt1 and pmt2 images are kept.
Autoscale	Applies an automatic contrast (0.35 % of saturated pixels) to the opened images. This changes the display only; the pixel values are not modified. Ticked by default.
Close all images before	Closes all the images currently open in Fiji before opening the selection.
Tiled	After opening, arranges the image windows side by side (same as Window > Tile).

6. Image calibration

For each acquisition, the plugin reads the .ini file found in its folder and applies the following values to the opened images:

- the pixel size in XY, from the line containing `pixel size (um)`, in μm ;
- for stacks, the step in Z, from the line containing `increment Z`, in μm .

A decimal comma is accepted in the .ini file.

⚠ Missing value

If the .ini file or the value is not found, the scale of the image is left unchanged. Check the scale (**Image > Properties...**) when in doubt.

7. Command-line launch

The plugin can be started from a terminal with the experiment folder already loaded:

```
"C:\Karthala system\Fiji.app\ImageJ-win64.exe" -eval "run('Open data',  
'select=C:/Users/xx/xx/xx/2026_10_22/ tiled');" 
```

- select= gives the experiment folder. Use forward slashes (/) in the path.
- If the path contains spaces, put it in square brackets: select=[C:/my data/2026_10_22/].
- The optional keyword tiled ticks the **Tiled** option at start-up.
- Without select=, the window opens empty and the folder is chosen with **Open folder....**

⚠ Quotes

Inside the -eval text, use single quotes around the plugin name and the options. Double quotes would end the text given to the command line.

8. Quick reference

- Copy AODscope_Open_Data.jar into the Fiji plugins folder and restart Fiji.
- Start **Plugins > AODscope > Open data**, then click **Open folder....**
- Select the acquisitions (**Ctrl / Shift**) and choose the channels and options.
- Click **Open**. Use **Refresh** to find new acquisitions during a session.