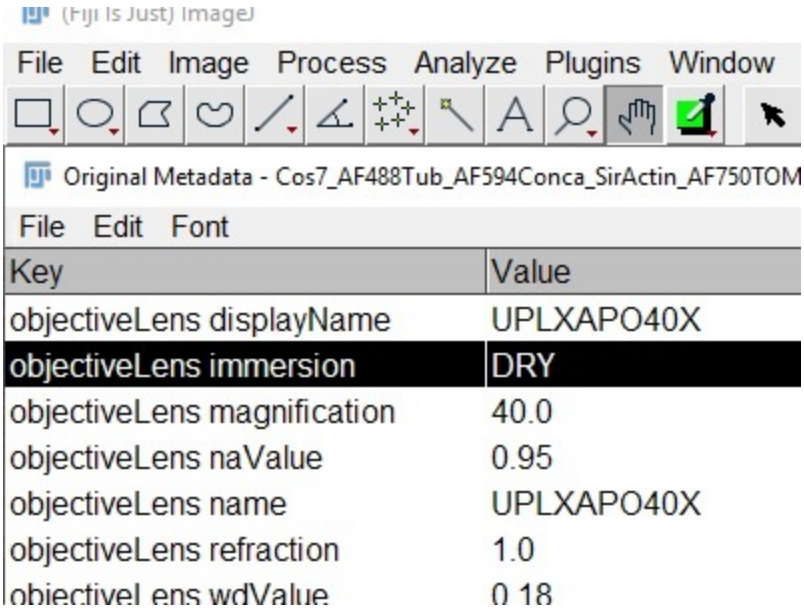
Find & access image metadata

This guide shows where to find the metadata from microscopy images from different vendors and open-source microscopes and how to read it in FiJi.

Written By: José Maria Mateos Melero

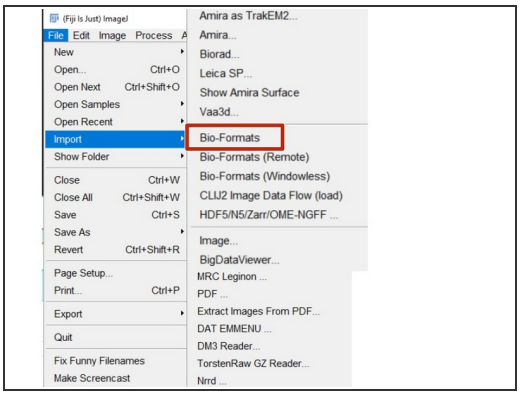


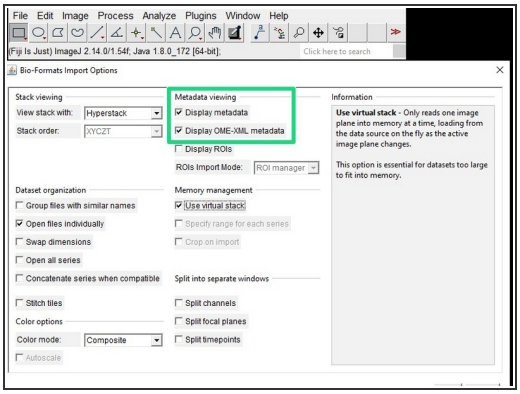
© 2025

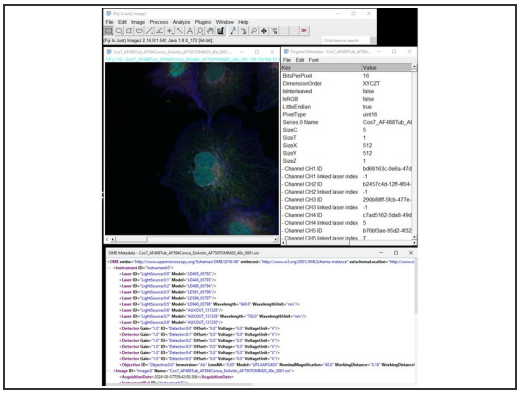
INTRODUCTION

This guide shows where to find the **image acquisition** and **image data** information from raw data. These two components are part of the complete metadata of a study . For further reading REMBI: Recommended Metadata for biological images-enabling reuse of microscopy data in Biology

Step 1 — Metadata in FiJI

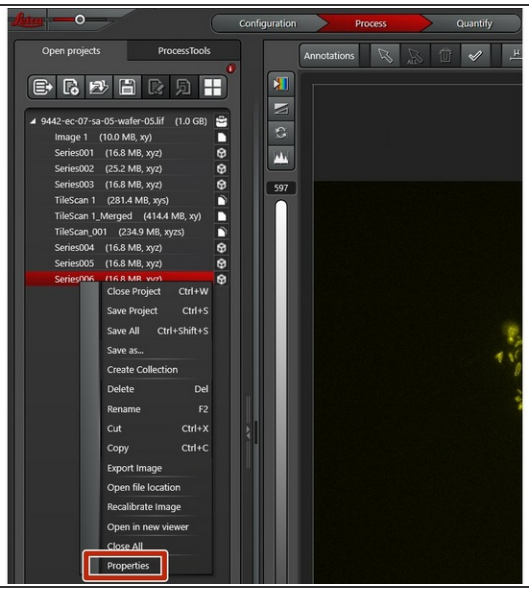


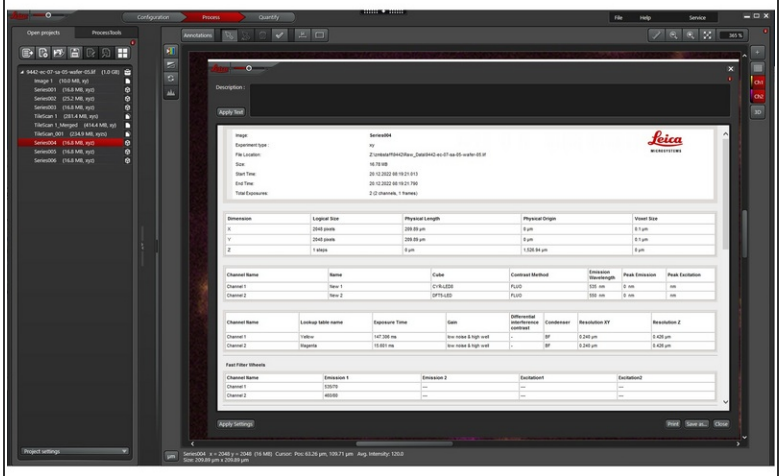




- Open FiJI
- In Tab File, select Import and Bio-format
- Select the image to open.
- A new window will appear.
- In the metadata viewing part. Check to activate Display metadata and Display metadata OME-XML metadata
- Two windows with the metadata information will appear together with the image

Step 2 — Metadata from Leica Microsystems

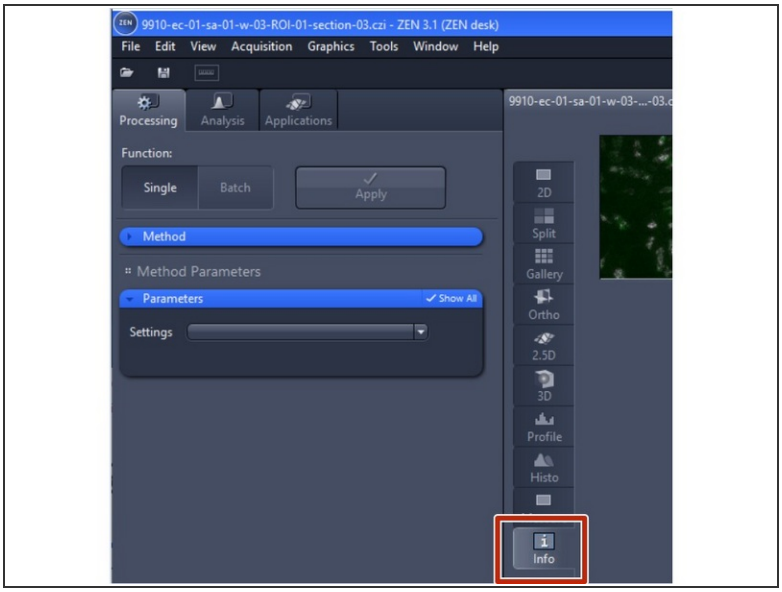


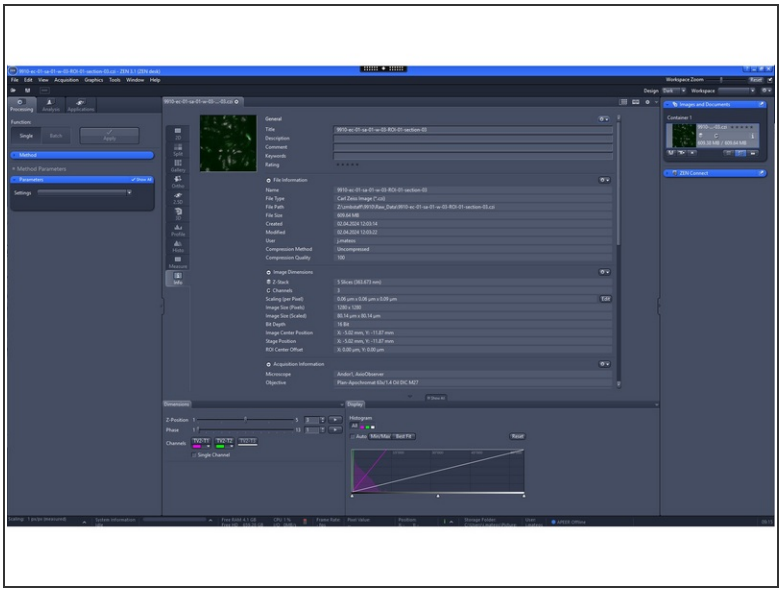


- Open the file on LAS application
- Right-click on the image you want to know its metadata
- Select Properties
- A new window will appear showing the metadata.

ⓘ Leica data format is .lif

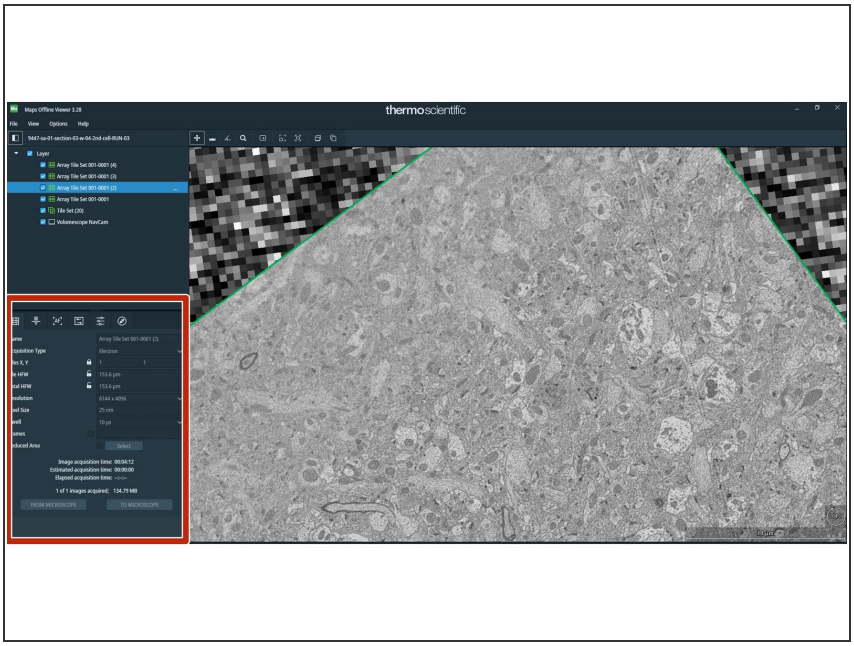
Step 3 — Metadata from Zeiss





- Open the data with ZEN sofware
- Click on the info tab to see the metadata values
- ⓘ Zeiss data format is .czi

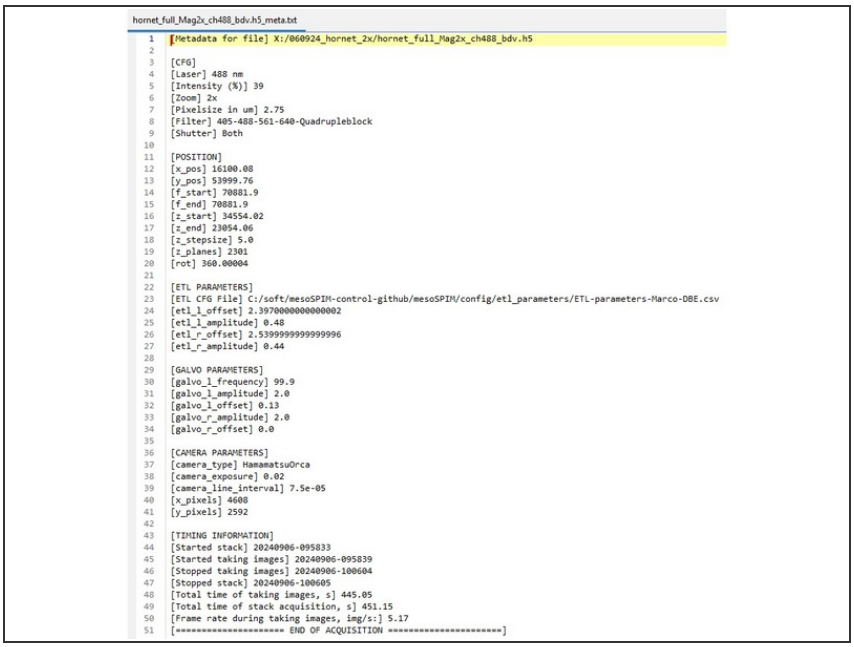
Step 4 — Metadata from ThermoFisher



- Open the data with MAPS and on the lower-left corner you can read some metadata parameters.

This document was generated on 2025-01-19 05:22:29 PM (MST).

Step 5 — Metadata MesoSPIM and Benchtop mesoSPIM


hornet_full_Mag2x_ch488_bdv.h5_meta.txt

```
[Metadata for file] X:/060924_hornet_2x/hornet_full_Mag2x_ch488_bdv.h5

[CFG]
[Laser] 488 nm
[Intensity (%)] 39
[Zoom] 2x
[Pixelsize in um] 2.75
[Filter] 405-488-561-640-Quadrupleblock
[Shutter] Both

[POSITION]
[x_pos] 16100.08
[y_pos] 53999.76
[f_start] 70881.9
[f_end] 70881.9
[z_start] 34554.02
[z_end] 23054.06
[z_stepsize] 5.0
[z_planes] 2301
[rot] 360.00004

[ETL PARAMETERS]
[ETL CFG File] C:/soft/mesoSPIM-control-github/mesoSPIM/config/etl_parameters/ETL-parameters-Marco-DBE.csv
[etl_l_offset] 2.3970000000000002
[etl_l_amplitude] 0.48
[etl_r_offset] 2.5399999999999996
[etl_r_amplitude] 0.44

[GALVO PARAMETERS]
[galvo_l_frequency] 99.9
[galvo_l_amplitude] 2.0
[galvo_l_offset] 0.13
[galvo_r_amplitude] 2.0
[galvo_r_offset] 0.0

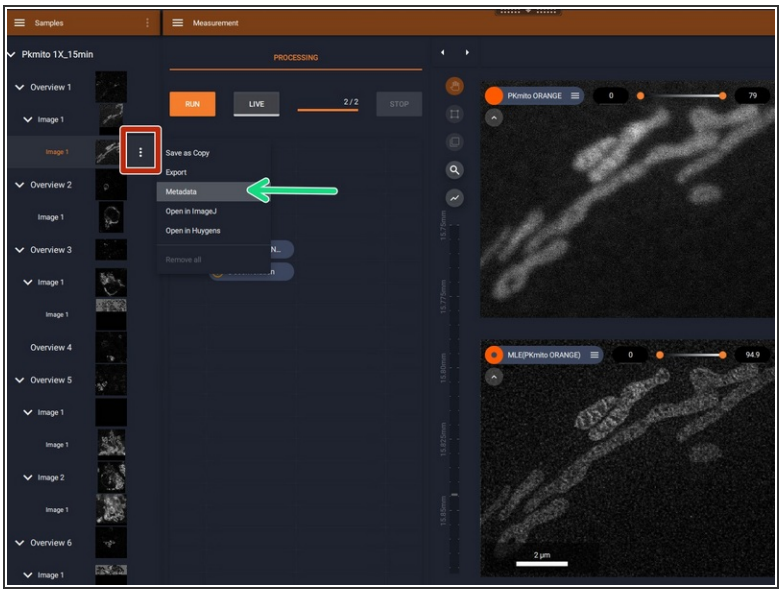
[CAMERA PARAMETERS]
[camera_type] HamamatsuOrca
[camera_exposure] 0.02
[camera_line_interval] 7.5e-05
[x_pixels] 4608
[y_pixels] 2592

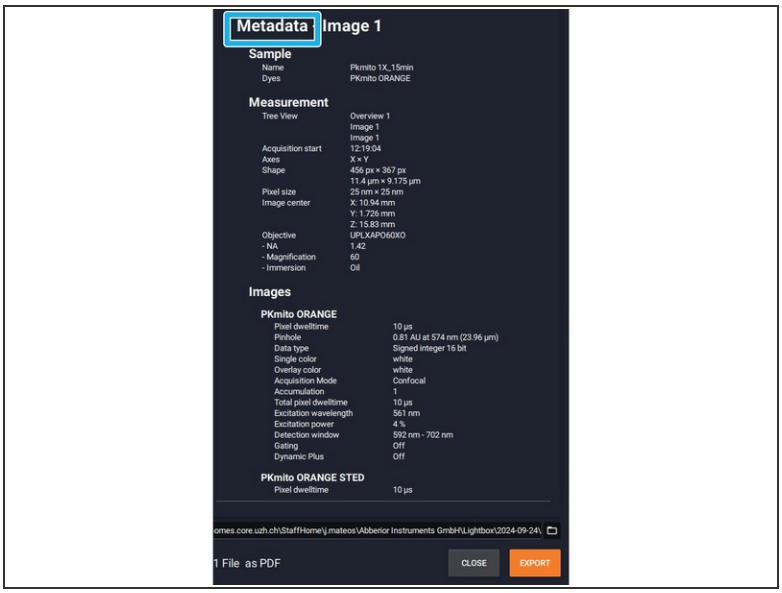
[TIMING INFORMATION]
[Started stack] 20240906-095833
[Started taking images] 20240906-095839
[Stopped taking images] 20240906-100604
[Stopped stack] 20240906-100605
[Total time of taking images, s] 445.05
[Total time of stack acquisition, s] 451.15
[Frame rate during taking images, img/s:] 5.17
[==================== END OF ACQUISITION ====================]
```

- MesoSPIM saves the data in h5 format and the metadata can be found in an associated .txt file. Open it with any text editor.

ⓘ MesoSPIM data format is .h5

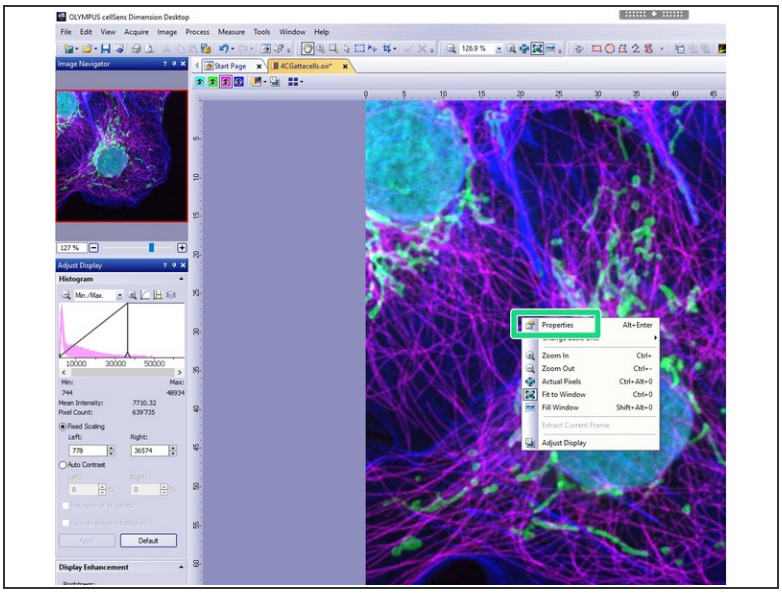
Step 6 — Metadata from Abberior

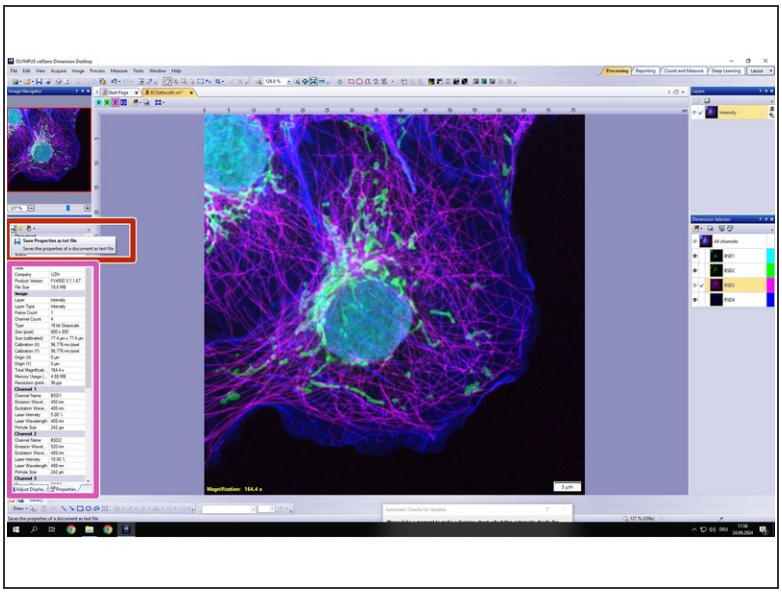




- Open the data with Abberior Lightbox software.
- Click on the three points icon on the right side of each image.
- Select metadata.
- A new window will appear with the metadata information.
- ⓘ Abberior data format is .obf

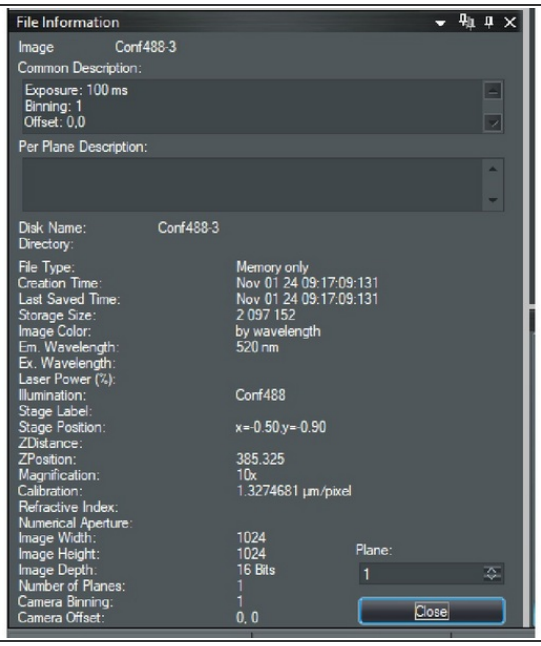
Step 7 — Metadata from Evident





- Open the data with CellSens Dimension Desktop.
- Right-Click on the image and from the appearing window, select properties.
- A new window with the metadata will appear.
- This metadata can be exported as .txt file by clicking on the "save properties as txt file" icon.
- ⓘ Evident data format is .oir

Step 8 — Visitron Systems



- Open the file with VisiView software.
- In the Main menu select: "File" and from the drop-down menu select: "File Info".
- A window will appear with the image metadata.

ⓘ Data can be saved in Visitron data format .stk

ⓘ or in ome.tf2 Format OME Big-Tiff (recommended)