

How to get image data for a publication?

For submission of a scientific manuscript it is often necessary to get a number of image acquisition parameters in order to properly document the imaging procedure in the “materials and methods” section. This protocol describes how to extract these infos from the “.lif” files as saved by the SP5 confocal microscope. Both the LASAF Lite or the full LASAF version (dongle) of the Leica software can be used.

- Open e.g. the LASAF Lite software
- “File>Open Experiment”
- Right-click the image from the list
- Select “Properties of <imagexyz...>”

Experiment Data

Description

Apply Text

Image: **Series003**
Size: **603,98 MB**
File Location: C:\Documents and Settings\iq002mo\Desktop\Simone\cpn confocal\fig2 A Ctrl.lif
Start Time: 03.05.2010 10:59:49.469
End Time: 03.05.2010 11:06:23.158
Total Exposures: 288 (3 channels, 96 frames)

Dimensions

Dimension	Logical Size	Physical Length	Physical Origin
X	1024	40,27 µm	10,17 µm
Y	1024	40,27 µm	28,27 µm
Z	96	11,96 µm	-8,40 µm

Scanner Settings

CARS Shutter	0
ChaserUVShutter	0

Apply Settings Print Save as... Close

- Use the scroll bar to find out what you need to know
- Each sequential scan is documented separately

The screenshot shows a software window titled "Experiment Data" with a close button (X) in the top right corner. The window is divided into two main sections. The top section is labeled "Description" and contains a large empty text box with an "Apply Text" button below it. The bottom section is titled "Hardware Settings Details (Show)" and contains a sub-section "Sequential Setting Nr.1" with a table of settings. A vertical scrollbar is visible on the right side of the table. At the bottom of the window, there are four buttons: "Apply Settings", "Print", "Save as...", and "Close".

Sequential Setting Nr.1	
Galvo Slider	Galvo X Normal
Galvo Resonant Pan	Galvo X Pan Center
Target Slider	Target Park
UV Lens Wheel	Lens 63x/1.4 Oil
PMT 1 (410nm - 483nm)	Inactive, Gain: 826, Offset: -1
PMT 2 (496nm - 559nm)	Active, Gain: 920, Offset: 0
PMT 3 (569nm - 609nm)	Inactive, Gain: 848, Offset: -1
PMT 4 (708nm - 750nm)	Inactive, Gain: 0, Offset: 0
PMT 5 (759nm - 800nm)	Inactive, Gain: 0, Offset: 0
Transmission	Inactive, Gain: 0, Offset: 0
Laser Line UV(405)	0.00 %
Laser Line Visible(458)	0.00 %
Laser Line Visible(476)	0.00 %
Laser Line Visible(488)	19.00 %
Laser Line Visible(496)	0.00 %
Laser Line Visible(514)	0.00 %

- Depending on your experiment you can also recover z-distances, time settings (time series) etc
- The whole list can be saved as a ".xml" file and opened using a webbrowser...