Leica THUNDER - Local Saving and Automatic Image Data Transfer

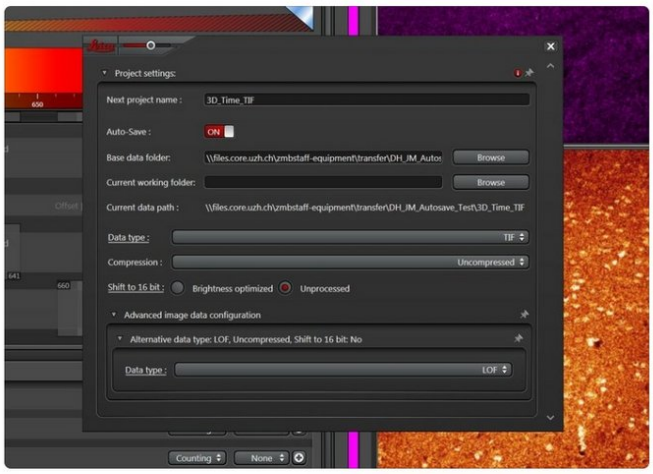
Saving your data locally can increase speed and reliability during time lapse or high throughput imaging.

Written By: z mbstaff

Leica LASX Auto-Save and How to Handle the Resulting Files

Written By: Dominik Hänni (and one other contributor)

Comments: 0 Favorites: 0



Difficulty	Easy
Steps	9
Time Required	00:10:00
Sections	1
Flags	0

Introduction

In this guide we describe the usuage of the Leica LASX auto-save functionality. By using auto-save, there is less risk of data loss during an extended image acquisition session and long file saving times after an extended imaging session can be avoided. Since auto-save does not generate standard Leica .lif files, we also show how the resulting files can be handled and visualized.

Here we show the workflow for multichannel, multiposition, 3D time series data.

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INTRODUCTION

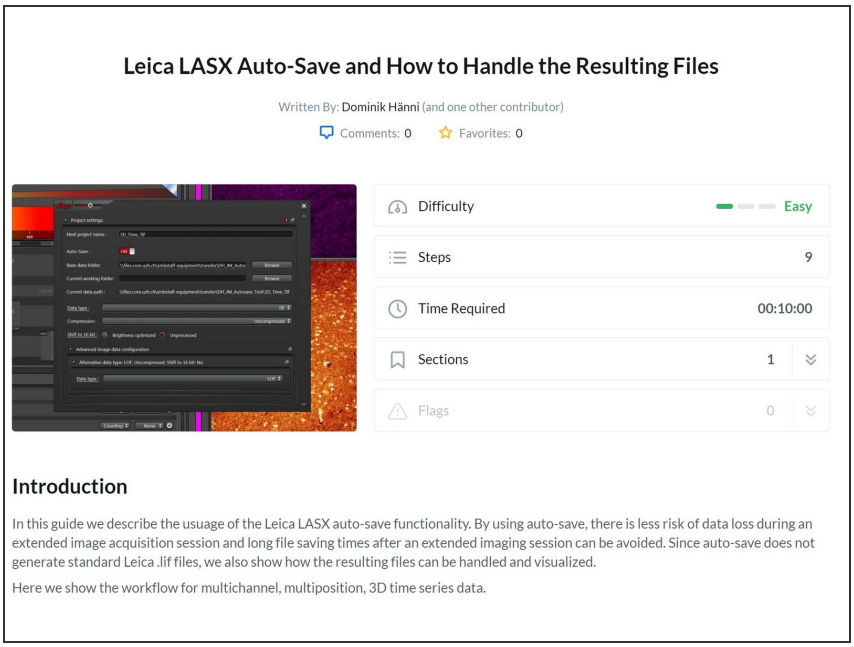
Acquiring and saving large image datasets such as when performing time lapse imaging with the Leica THUNDER widefield microscope can take a significant amount of time due to the limited network transfer speed.

By saving your data locally, using the LASX autosave functionality, you can reduce the time needed for transferring your data. Moreover this approach can increase the reliability of the imaging, since it is independent of the current network performance.

In this short guide you will learn where to save your data locally and how to transfer it to the fileserver after the experiment.

The automatic zmb data transfer process allows to move large datasets in the background, while the next user can already start working on the microscope using his/her own zmb account.

Step 1 — Activate the LASX autosave function (optional)



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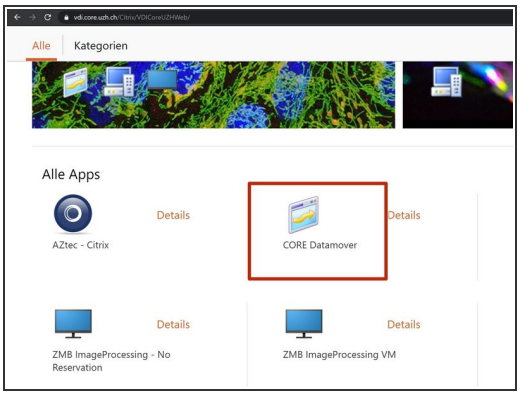
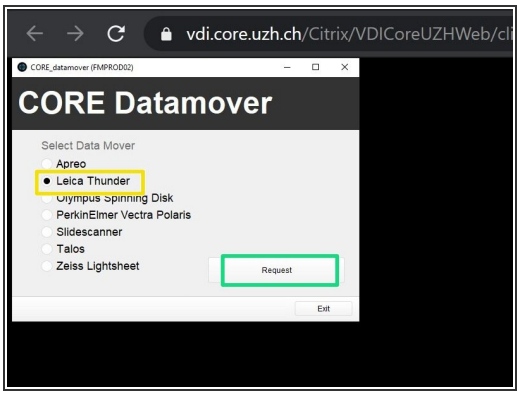
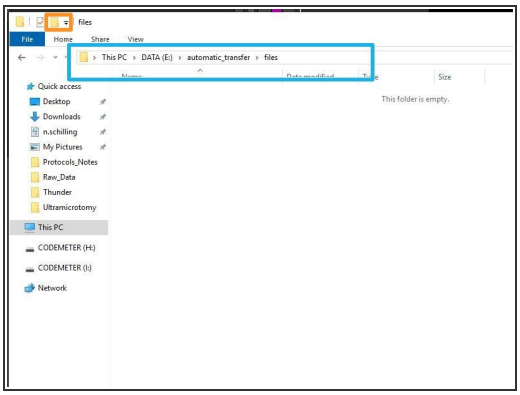
Here we show the workflow for multichannel, multiposition, 3D time series data.

- Follow the LASX autosave guide to reduce the risk of data loss and decrease long file saving times after the acquisition of large data sets.

Step 2 — Saving and moving your data







- Save your data in "E:\automatic_transfer\files\%username%".
- Make a new folder with your **core account user name**! (*the same name as used to log in to the microscope)*
- Open the "Citrix Workspace" software and log-in using your core credentials. Click on "CORE Datamover".
- Choose "Leica THUNDER".
- Click on "Request" to start the automatic data transfer.
- You will get a confirmation that your request has been created. Your transfer job will automatically start within the next 15 minutes.
- Log-off from the computer but **do not** shut-down the system.

⚠ If you do not receive an email after your request or if you need further support, please contact us at it@zmb.uzh.ch.