

LAS X Office 1.4.6

Release Notes LAS X Office 1.4.6

LAS X Office is a version of the Leica Application Suite X for experiment review and can be downloaded free of charge from the Leica Microsystems website. It does not offer any hardware control and cannot be used for image acquisition. LAS X Office can be extended with licenses for additional processing tools, 3D visualization and image analysis. The release notes cover all offline tools no matter if they are license protected or part of LAS X Office.

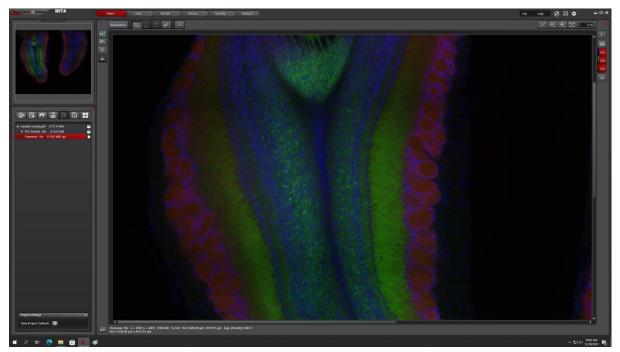


Image courtesy of Thomas Kuner, Ivo Sonntag, Janine Reinert, Institute for Anatomy and Cell Biology, Heidelberg University, Germany

This document describes the LAS X Office 1.4.6 release. You should read this document

before installing your copy of this software.

All reasonable steps have been taken to ensure that this publication is correct and complete,

but should any user be in doubt about any detail, clarification may be sought from Leica

Microsystems CMS GmbH, or their accredited representative. The information in this

document is subject to change without notice and should not be construed, as a commitment

by Leica Microsystems CMS GmbH. Leica Microsystems CMS GmbH accepts no

responsibility for any errors that may appear in this document.

Copyright © 2024 Leica Microsystems CMS GmbH

All rights reserved. The contents of this publication may not be reproduced in any form or

communicated to a third party without prior written permission of Leica Microsystems CMS

GmbH. Due to a policy of continuous development, we reserve the right to change

specifications without notice. Microsoft and MS-DOS are registered trademarks and Windows,

the Windows logo, the Windows 2000 logo, the Windows XP logo, the Windows Vista logo,

the Windows 7 logo, the Windows 10 and the Windows 11 logo are trademarks of Microsoft

2

Corporation.

Date: March 21st, 2024, applying to build number 28433

LAS X Office 1.4.6 Release Notes

Contents

Tec	hnical Requirements and Installation	. 4
1.1	Warnings	. 4
1.2	Operating System	. 4
1.3	Cybersecurity Advices	. 4
1.4	PC Requirements	. 5
1.5	Graphics Card Drivers	. 5
Pro	duct Security Fix	. 5
Nev	v Features	. 5
3.1	LAS X Office 1.4.6 supports Windows 11	. 5
3.2	Higher performance of 2D Analysis	. 5
3.3	2D Measurements	. 6
3.4	Sending images to 2D and 3D Analysis	. 6
3.5	Extended Depth of Field within 3D Processing	. 6
Imp	ortant Information	. 7
	1.1 1.2 1.3 1.4 1.5 Pro Nev 3.1 3.2 3.3 3.4	1.1 Warnings 1.2 Operating System 1.3 Cybersecurity Advices 1.4 PC Requirements 1.5 Graphics Card Drivers Product Security Fix New Features 3.1 LAS X Office 1.4.6 supports Windows 11 3.2 Higher performance of 2D Analysis 3.3 2D Measurements 3.4 Sending images to 2D and 3D Analysis 3.5 Extended Depth of Field within 3D Processing

1. Technical Requirements and Installation

1.1 Warnings

Warning!! LAS X Office cannot be installed on the same PC as the LAS X full version. Please deinstall LAS X full version before installing LAS X Office.

1.2 Operating System

LAS X 3.9.1 is a genuine 64-bit program and runs on Windows 11 and Windows 10.

Windows 11 N and Windows 10 N versions require the Windows Media Feature Pack to be installed before starting LAS X. For installation of Windows Media Feature Pack please follow the procedure described below:

Check Windows Version:

- Windowskey+R and run "Winver" or
- Settings/System/Info

Windows 11 N: Select the Start button, then select Settings > Apps > Optional features. Select View features next to Add an optional feature, and then select the Media Feature Pack in the list of available optional features.

Windows 10 N: Select the Start button, then select Settings > Apps > Apps & features > Optional features > Add a feature. Then locate the Media Feature Pack in the list of available optional features.

1.3 Cybersecurity Advices

Leica Microsystems recommends the installation of all available security updates and hotfixes for Microsoft Windows.

Please check the regularly updated Leica Microsystems Product Security web page to get the latest information and recommendation regarding product security vulnerabilities and detailed mitigation strategies

www.leica-microsystems.com/company/product-security/

If you need further information or are not sure about security fixes suggested by a system component manufacturer, please contact us via www.leica-microsystems.com/service/

If a vendor of a PC system component announces a severe security vulnerability, it is also recommended to update the drivers/software as suggested by the vendor (i.e. graphic card drivers).

1.4 PC Requirements

LAS X Office is released for Windows 10 and Windows 11. Minimum PC requirements are an Intel Core i5, Intel Xeon or AMD Ryzen processor and 16GB RAM. If LAS X Office is extended with licenses for additional processing tools, 3D visualization or image analysis an NVIDIA T1000 4GB graphics card and 64GB RAM are recommended.

Please note that LAS X Office has been tested with Leica Workstations. It cannot be guaranteed that all other PC configurations that meet the minimum requirements will work with LAS X Office.

1.5 Graphics Card Drivers

NVIDIA RTX A5000, A4000, A2000:

537.42-quadro-rtx-desktop-notebook-win10-win11-64bit-international-dch-whql.exe

NVIDIA Quadro T1000, T400:

537.34-desktop-win10-win11-64bit-international-dch-whql.exe

2. Product Security Fix

Update of license component to a new secure version

Please see the official communication for detailed information

https://www.leica-microsystems.com/company/product-security/product-security-updates/

3.New Features

3.1 LAS X Office 1.4.6 supports Windows 11

Not a feature but worth mentioning: LAS X Office 1.4.6 supports Windows 11 & Windows 10.

3.2 Higher performance of 2D Analysis

2D Analysis can be done within the Analysis tab or within the 3D Analysis. Both are using the same code.

Please note:

- 2D Analysis will not allow to incorporate Fiji scripts into the image processing pre-filter step
- routines from old 2D Analysis are compatible with the new version with two exceptions:
 - image processing pre-filter: new sharpen unsharp mask uses different parameters
 - binary processing pre-filter: split objects uses different parameters than split touching

3.3 2D Measurements

The 2D Measurements module is available as part of the Analysis tab. The measurement license will activate the 2D Measurement, the 2D Analysis license will activate the analysis part.



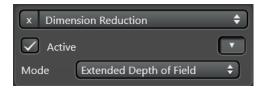
3.4 Sending images to 2D and 3D Analysis

Images and image selections can be sent to 2D Analysis by right mouse click -> "Append to Image Analysis Images" or to 3D Analysis by selecting "Append to 3D Image Analysis Images".

Append to Image Analysis Images
Append to 3D Image Analysis Images

3.5 Extended Depth of Field within 3D Processing

The Extended Depth of Field function within 3D Processing-> Dimension Reduction automatically applies parallax correction, if applicable.



4.Important Information

- Images containing parallax acquired in Navigator first need to be merged before EDOF (Extended Depth of Focus) is applied.
- Export of images larger than 4GB needs to be done within the LAS X 3D Viewer Export.
- Exporting RGB images via right click in viewer doesn't work.
- Do not create Excel reports without installed Excel.
- When installing LAS X from USB-Stick, Trend Micro blocks the AUTORUN.inf. **Workaround**: start setup.exe manually.
- When zooming into an image with measurement lines the measurement lines are not zooming accordingly.

Workaround: perform measurements after zooming.

• LAS X is released for use with Windows Defender Antivirus and TrendMicro Antivirus.