

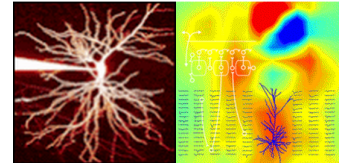
ScanImage Home

ScanImage is an open-source software application for laser scanning microscopy, electrophysiology, laser scanning photostimulation, and other physiological methods focused on neurobiology.

The software has been previously developed at [Cold Spring Harbor Laboratory](#), [Northwestern University](#), and [Janelia Research Campus](#), with NIH grant support to Gordon Shepherd and Karel Svoboda.

As of 2014, ScanImage is developed and supported by [Vidrio Technologies, LLC](#) as both an [open-source research resource](#) and as premium software available for sale.

ScanImage is used by over 200 laboratories throughout the world and has been essential to the work described in [over 550 publications](#) to date.



General

Information

Users

Publications



Be counted!

If your lab actively uses ScanImage, please [let us know](#) about any publications using these tools (if not yet [on our list](#)).



License and Citations

ScanImage 5 releases are provided to site members under the [ScanImage 5.x License](#)

In addition, we require that those who publish work using ScanImage either:

- cite [Pologruto et al](#)
- [contact us](#) with news of your publication!

ScanImage

ScanImage is an application for controlling a laser scanning microscope. The application was first released in 2003 and the original version (r3.0) is described in [Pologruto et al., Biomedical Engineering Online, 2003](#).

The latest versions ScanImage 5.1 and ScanImage 2015 are based upon the concept of flexible hardware support including support for multiple [scanhead hardware](#) from, Scientifica, Sutter Instruments and ThorLabs.

[Data acquisition and control hardware](#) is based upon the powerful [National Instruments FlexRIO](#) platform which includes on board FPGA processing for real-time analysis applications.

Please contact support@vidriotech.com for hardware and software license quotes.



View the article [ScanImage Free and Premium Comparison](#) to learn more about ScanImage versions.



Version Summary

ScanImage **2017** was released November 10th, 2017 and adds motion correction in Z, 3D SLM scanning, and much more to ScanImage 2016

ScanImage **2016** was released June 15th, 2016 and adds motion correct, online analysis, arbitrary line scanning and much more to ScanImage 2015

ScanImage **2015** supports combined *resonant scanner* imaging and *galvo scanner* photostimulus (and much more)

ScanImage **5.1** supports *resonant scanner* and *galvo scanner* imaging

ScanImage **4.1/4.2** supports *resonant scanner* imaging with [specific](#) Thorlabs hardware

ScanImage **3.8** is supports *galvo scanner* imaging

Premium Releases

Release	Updated	Download	Documentation	README	Summary
SI 2018a	18 June 2018	Releases have been moved here.	Documentation	README	Photon Counting using a fast digitizer 3D Motion Correction Acquisition Gating for low rep rate Lasers Offline Data Viewer HARDWARE REQUIREMENTS

Release	Updated	Download	Documentation	README	Summary
SI 2017b	22 Dec 2017	Login / Sign Up!	Documentation	README	Z Motion Correction Improved Galvo Waveforms Eliminated FastZ Volume Period Adjustment Custom Header Properties Data Overwrite Warning Various fixes and overhauls Maintenance Update: Bug Fixes for PZAdjust, Tile Display, Rolling Stripe Data, FastZ, Pure Analog Devices + More. HARDWARE REQUIREMENTS

Release	Updated	Download	Documentation	README	Summary
SI 2017a	30 Aug 2017	Login / Sign Up!	Documentation	README	3D SLM targeting and imaging 3D pattern generation and alignment Simultaneous imaging and holographic targeting SLM as FastZ or Linear Scanning device Wavefront generation with Zernike modes Bessel-mode scanning Z-Alignment between stage and focusing device SLM LUT calibration Triggered SLM photostimulation HARDWARE REQUIREMENTS

Release	Updated	Download	Documentation	README	Summary
SI 2016b	21 March 2017	Login / Sign Up!	Documentation	README	SLM & Galvo/Galvo targeted Photostimulation, Support for 2P Mesoscope, multi-ROI (MROI) imaging; FastZ step mode, Motion Correction, Online analysis, arbitrary line scanning, Optimization and caching of waveform AO's PLUS all features in SI5 HARDWARE REQUIREMENTS

Release	Updated	Download	Documentation	README	Summary
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SI 2015b	10 March 2016	Login / Contact Us!	Documentation	README	SI5 resonant scanning PLUS: targeted photostimulation; parallel scanners; multi-ROI (MROI) imaging; FastZ step mode; HARDWARE REQUIREMENTS
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Public Releases

All public release of ScanImage (5.x, 4.x, etc.) have been moved [here](#).

If you already have an account with us, your account will be automatically imported to the new website after logging in using your Confluence credentials.

>> How to Install

Prerequisites

ScanImage is written primarily in [Matlab](#) and uses [National Instruments](#) data acquisition (DAQ) hardware for its core functionality.

The Microsoft Windows operating system, Matlab software, and National Instruments DAQ driver software must be installed prior to using ScanImage.

ScanImage Version	OS Version(s)	Matlab Version(s)	NI Driver Versions	
2017 / 5.3	Win7/64-bit OR Win10/64-bit	2015a OR 2015b OR 2016a (all 64-bit)	DAQmx 9.8 OR DAQmx 15.5 FlexRIO 15.5 or later	Install Documentation
2016 / 5.2	Win7/64-bit OR Win10/64-bit	2015a OR 2015b OR 2016a (all 64-bit)	DAQmx 9.8 OR DAQmx 15.5 FlexRIO 15.5 or later	Install Documentation
2015	Win7/64-bit OR Win10/64-bit	2013b (64-bit) OR 2015a* (64-bit)	DAQmx 9.8 OR DAQmx 15.1 FlexRIO 15.1	Install Documentation
5.1	Win7/64-bit OR Win10/64-bit	2013b (64-bit) OR 2015a* (64-bit)	DAQmx 9.8 OR DAQmx 15.1 FlexRIO 15.1	Install Documentation
5	Win7/64-bit	2013b (64-bit) OR 2014a (64-bit)	DAQmx 9.8 FlexRIO 15.1	Install Documentation
4.2	Win7/64-bit	2011b,2013b	DAQmx 9.6 OR DAQmx 9.8	Install Documentation
3.8.1	WinXP/32-bit OR Win7/64-bit 	2011b,2012b,2013b	DAQmx 8.8 OR DAQmx 9.6 OR DAQmx 9.8  	Install Documentation



NO MATLAB TOOLBOXES are required for any currently supported ScanImage version



Multiple Matlab versions can be simultaneously installed, and run, on the same machine/account, without counting as an extra [license activation](#)



If using Win7/64-bit and/or using the newer [X Series](#) devices from National Instruments, then DAQmx 9.3 or later must be used.



DAQmx version 8.8 compatibility is provided to facilitate upgrading from SI 3.6 or 3.7, which also can run on DAQmx 8.8. With this driver, users can install and switch between ScanImage versions, as desired, during the migration/upgrade.

*Recommended for best performance

ScanImageTiffReader

Release	Updated	Download	Documentation	Summary
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1.1	15 June 2016	Windows MD5 : 45804ad6538320ceaf5d38a85a4f723d OSX MD5 : b149658dc68570edb04228f396f3cde5 Linux MD5 : ba53543b2057f375fdad948f693beb8a	Documentation	A library and command line tool for quickly extracting data from Tiff and Big Tiff files recorded using ScanImage. Includes support for C, Python, Matlab and Julia.
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User Support & Feedback

Use support@vidriotech.com to:

- submit bug/issue reports
- submit enhancement/feature suggestions
- submit other questions or feedback

Use support.vidriotech.com (login required) to:

- check on the status of tickets you have created
- see your support history