

# 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](mailto: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 **2019** was released on June 3rd, 2019 and includes vDAQ support, a revised stack control, Network remote control for ScanImage and advanced SLM features

ScanImage **2018** was released on June 18th, 2018 and includes Photon Counting, 3D Motion Correction, 3P imaging support, and an offline data viewer

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 2019b	3 December 2019	Releases have been moved <a href="#">here</a> .	<a href="#">Documentation</a>	<a href="#">README</a>	<a href="#">vDAQ Support</a> <a href="#">Live Motor Updates</a> <a href="#">New Stack Controls</a> <a href="#">3D Shot workflow</a> <a href="#">HARDWARE REQUIREMENTS</a>

Release	Updated	Download	Documentation	README	Summary
SI 2019a	3 June 2019	Releases have been moved <a href="#">here</a> .	<a href="#">Documentation</a>	<a href="#">README</a>	<a href="#">vDAQ Support</a> <a href="#">ScanImage Remote Control</a> <a href="#">SLM Power Calibration</a> <a href="#">License Manager</a> <a href="#">HARDWARE REQUIREMENTS</a>

Release	Updated	Download	Documentation	README	Summary
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SI 2018a	18 June 2018	Releases have been moved <a href="#">here</a> .	<a href="#">Documentation</a>	<a href="#">README</a>	<a href="#">Photon Counting using a fast digitizer</a> <a href="#">3D Motion Correction</a> <a href="#">Acquisition Gating for low rep rate Lasers</a> <a href="#">Offline Data Viewer</a> <a href="#">HARDWARE REQUIREMENTS</a>
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Release	Updated	Download	Documentation	README	Summary
SI 2017b	22 Dec 2017	<p>The license could not be verified: License Certificate has expired!</p> <p>The license could not be verified: License Certificate has expired!</p>	<a href="#">Documentation</a>	<a href="#">README</a>	<a href="#">Z Motion Correction</a> <a href="#">Improved Galvo Waveforms</a> <a href="#">Eliminated FastZ Volume Period Adjustment</a> <a href="#">Custom Header Properties</a> <a href="#">Data Overwrite Warning</a> <a href="#">Various fixes and overhauls</a> <a href="#">Maintenance Update: Bug Fixes for</a> <a href="#">PZAdjust, Tile Display, Rolling Stripe Data, FastZ,</a> <a href="#">Pure Analog Devices + More.</a> <a href="#">HARDWARE REQUIREMENTS</a>

Release	Updated	Download	Documentation	README	Summary
SI 2017a	30 Aug 2017	<p>The license could not be verified: License Certificate has expired!</p> <p>The license could not be verified: License Certificate has expired!</p>	<a href="#">Documentation</a>	<a href="#">README</a>	<a href="#">3D SLM targeting and imaging</a> <a href="#">3D pattern generation and alignment</a> <a href="#">Simultaneous imaging and holographic targeting</a> <a href="#">SLM as FastZ or Linear Scanning device</a> <a href="#">Wavefront generation with Zernike modes</a> <a href="#">Bessel-mode scanning</a> <a href="#">Z-Alignment between stage and focusing device</a> <a href="#">SLM LUT calibration</a> <a href="#">Triggered SLM photostimulation</a> <a href="#">HARDWARE REQUIREMENTS</a>

Release	Updated	Download	Documentation	README	Summary
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SI 2016b	21 March 2017	The license could not be verified: License Certificate has expired!  The license could not be verified: License Certificate has expired!	<a href="#">Documentation</a>	<a href="#">README</a>	SLM & Galvo/Galvo targeted Photostimulation, Support for 2P Mesoscope, <a href="#">multi-ROI (MROI) imaging</a> ; <a href="#">FastZ step mode</a> , Motion Correction, Online analysis, arbitrary line scanning, Optimization and caching of waveform AO's PLUS all features in SI5  <a href="#">HARDWARE REQUIREMENTS</a>
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Release	Updated	Download	Documentation	README	Summary
SI 2015b	10 March 2016	The license could not be verified: License Certificate has expired!  The license could not be verified: License Certificate has expired!	<a href="#">Documentation</a>	<a href="#">README</a>	SI5 resonant scanning PLUS:  targeted photostimulation; parallel scanners;  <a href="#">multi-ROI (MROI) imaging</a> ; <a href="#">FastZ step mode</a> ;  <a href="#">HARDWARE REQUIREMENTS</a>

## 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	
2019 / 5.6	Win7/64-bit OR Win10/64-bit	2015a up to 2019a (all 64-bit)	DAQmx 9.8 through DAQmx 19.0 FlexRIO 15.5 or later	Install Documentation
2018 / 5.4 - 5.5	Win7/64-bit OR Win10/64-bit	2015a up to 2018a (all 64-bit)	DAQmx 9.8 through DAQmx 18.6 FlexRIO 15.5 or later	Install Documentation
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