

Resource Summary Report

Generated by [SPARC SAWG](#) on Jul 29, 2026

ScanImage

RRID:SCR_014307

Type: Tool

Proper Citation

ScanImage (RRID:SCR_014307)

Resource Information

URL: <http://scanimage.vidriotechnologies.com/>

Proper Citation: ScanImage (RRID:SCR_014307)

Description: Open source software application for laser scanning microscopy, electrophysiology, laser scanning photostimulation, and other physiological methods focused on neurobiology. Used to control laser scanning microscopes without need for custom data acquisition hardware. Standard data acquisition boards are used to acquire data and control laser scanning. The tasks of signal integration and image processing are placed on the computer CPU. Multiple versions of ScanImage are available, each with their own features.

Synonyms: Scan Image, ScanImage

Resource Type: software application, signal processing software, data processing software, software resource, data acquisition software

Defining Citation: [PMID:12801419](#)

Keywords: Laser, scanning, microscopy, electrophysiology, photostimulation, neurobiology, control, data, acquisition, BRAIN Initiative

Availability: Restricted

Resource Name: ScanImage

Resource ID: SCR_014307

Alternate URLs: <http://scanimage.vidriotechnologies.com/display/SIH/ScanImage+Home>

License: ScanImage 5.x License

Record Creation Time: 20220129T080320+0000

Record Last Update: 20260729T044327+0000

Ratings and Alerts

No rating or validation information has been found for ScanImage.

No alerts have been found for ScanImage.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 810 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Schottdorf M, et al. (2025) TWINKLE: An open-source two-photon microscope for teaching and research. PloS one, 20(2), e0318924.

Neske GT, et al. (2025) Higher-order thalamic input to cortex selectively conveys state information. Cell reports, 44(2), 115292.

Anding A, et al. (2025) Activity of human-specific Interlaminar Astrocytes in a Chimeric Mouse Model of Fragile X Syndrome. bioRxiv : the preprint server for biology.

Leidmaa E, et al. (2025) Acute high-fat high-sugar diet rapidly increases blood-brain barrier permeability in mice. The journal of nutrition, health & aging, 29(7), 100574.

Osaki T, et al. (2025) Multi-photon, label-free photoacoustic and optical imaging of NADH in brain cells. Light, science & applications, 14(1), 264.

Skriabine S, et al. (2025) Mapping the visual cortex with Zebra noise and wavelets. bioRxiv : the preprint server for biology.

Condrau J, et al. (2025) ECgo: All-Optical Induction of Single Endothelial Cell Injury and Capillary Occlusion in the Brain. bioRxiv : the preprint server for biology.

Faini G, et al. (2025) CHLOK: a chemigenetic multicolor labeling system to visualize neuronal birthdate and circuit integration. Research square.

Gribizis A, et al. (2025) Retinal waves reveal axial biases in modular patterns of cortical activity that predict future orientation preferences. bioRxiv : the preprint server for biology.

Thieren L, et al. (2025) Astrocytic GLUT1 deletion in adult mice enhances glucose metabolism and resilience to stroke. Nature communications, 16(1), 4190.

Fulopova B, et al. (2025) Repetitive transcranial magnetic stimulation increases synaptic plasticity of cortical axons in the APP/PS1 amyloidosis mouse model. Neurophotonics, 12(Suppl 1), S14613.

Taylor CR, et al. (2025) Cortical astrocyte histamine-1-receptors regulate intracellular calcium and extracellular adenosine dynamics across sleep and wake. PLoS biology, 23(10), e3003376.

Greenin-Whitehead K, et al. (2025) Ectopic sodium channel expression decreases excitability of Drosophila Kenyon cells. The Journal of physiology, 603(19), 5565.

Chen IW, et al. (2025) High-throughput synaptic connectivity mapping using in vivo two-photon holographic optogenetics and compressive sensing. Nature neuroscience, 28(10), 2141.

Howe CL, et al. (2025) Light-field deep learning enables high-throughput, scattering-mitigated calcium imaging. Proceedings of the National Academy of Sciences of the United States of America, 122(48), e2510337122.

Alam S, et al. (2025) A neuron type-specific microexon in Ank3/ankyrin-G modulates calcium activity and neuronal excitability. bioRxiv : the preprint server for biology.

Hong N, et al. (2025) Multimodal optical imaging and modulation through Smart Dura in non-human primates. bioRxiv : the preprint server for biology.

Shainer I, et al. (2025) Transcriptomic neuron types vary topographically in function and morphology. Nature, 638(8052), 1023.

Sun W, et al. (2025) Learning produces an orthogonalized state machine in the hippocampus. Nature, 640(8057), 165.

Kim JH, et al. (2025) A combinatorial neural code for long-term motor memory. Nature, 637(8046), 663.