# **Resource Summary Report**

Generated by NIF on Apr 17, 2025

# **ScanImage**

RRID:SCR\_014307

Type: Tool

### **Proper Citation**

ScanImage (RRID:SCR\_014307)

#### Resource Information

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

**Proper Citation:** Scanlmage (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 resource, software application, data acquisition software, signal processing software, data processing software

**Defining Citation:** PMID:12801419

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

Funding:

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:** 20250416T063703+0000

### **Ratings and Alerts**

No rating or validation information has been found for ScanImage.

No alerts have been found for Scanlmage.

#### Data and Source Information

Source: SciCrunch Registry

## **Usage and Citation Metrics**

We found 707 mentions in open access literature.

**Listed below are recent publications.** The full list is available at <u>NIF</u>.

Schretter CE, et al. (2025) Social state alters vision using three circuit mechanisms in Drosophila. Nature, 637(8046), 646.

Stringer C, et al. (2025) Rastermap: a discovery method for neural population recordings. Nature neuroscience, 28(1), 201.

Tong S, et al. (2025) In vivo three-photon fluorescence imaging of mouse brain vasculature labeled by Evans blue excited at the NIR-III window. Biomedical optics express, 16(1), 257.

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

Wang CC, et al. (2025) Shedding new light on the hidden complexity of seeds: chemically selective imaging of seed coats with stimulated Raman scattering microscopy. The Analyst, 150(3), 498.

McPheeters MT, et al. (2025) Non-contact confocal calcium imaging of in vivo murine corneal nerves. Biomedical optics express, 16(1), 1.

Flores JC, et al. (2025) A synapse-specific refractory period for plasticity at individual dendritic spines. Proceedings of the National Academy of Sciences of the United States of America, 122(2), e2410433122.

Mazo C, et al. (2024) Auditory cortex conveys non-topographic sound localization signals to visual cortex. Nature communications, 15(1), 3116.

Anjum R, et al. (2024) Rem2 interacts with CaMKII at synapses and restricts long-term potentiation in hippocampus. bioRxiv: the preprint server for biology.

Looser ZJ, et al. (2024) Oligodendrocyte-axon metabolic coupling is mediated by extracellular K+ and maintains axonal health. Nature neuroscience, 27(3), 433.

Milioto C, et al. (2024) PolyGR and polyPR knock-in mice reveal a conserved neuroprotective extracellular matrix signature in C9orf72 ALS/FTD neurons. Nature neuroscience, 27(4), 643.

Gardères PM, et al. (2024) Coexistence of state, choice, and sensory integration coding in barrel cortex LII/III. Nature communications, 15(1), 4782.

Osaki T, et al. (2024) Early differential impact of MeCP2 mutations on functional networks in Rett syndrome patient-derived human cerebral organoids. bioRxiv: the preprint server for biology.

Kato DD, et al. (2024) Stability of cross-sensory input to primary somatosensory cortex across experience. bioRxiv: the preprint server for biology.

Farrants H, et al. (2024) A modular chemigenetic calcium indicator for multiplexed in vivo functional imaging. Nature methods, 21(10), 1916.

Lopez-Ortega E, et al. (2024) Stimulus-dependent synaptic plasticity underlies neuronal circuitry refinement in the mouse primary visual cortex. Cell reports, 43(4), 113966.

Westeinde EA, et al. (2024) Transforming a head direction signal into a goal-oriented steering command. Nature, 626(8000), 819.

Shiozaki HM, et al. (2024) Activity of nested neural circuits drives different courtship songs in Drosophila. Nature neuroscience, 27(10), 1954.

Hochbaum DR, et al. (2024) Thyroid hormone remodels cortex to coordinate body-wide metabolism and exploration. Cell, 187(20), 5679.

Deveau CE, et al. (2024) Recurrent cortical networks encode natural sensory statistics via sequence filtering. bioRxiv: the preprint server for biology.