

Resource Summary Report

Generated by [NIF](#) on Sep 4, 2026

E-Scope

RRID:SCR_025396

Type: Tool

Proper Citation

E-Scope (RRID:SCR_025396)

Resource Information

URL: <https://github.com/Aharoni-Lab/Ephys-Miniscope>

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Description: Miniaturized calcium imaging microscope with integrated dense electrode technology for synchronous acquisition of neural activity across distant regions of the brain. Device based off open-sourced UCLA Miniscope to synchronously measure single cell activity at or near spike-time resolution across distant brain regions in freely behaving mice. Used to perform calcium imaging, with dense electrode electrophysiological recording, allowing simultaneous recordings from two remote brain regions in freely behaving mouse.

Resource Type: instrument resource, software resource, source code

Defining Citation: [PMID:37066345](#)

Keywords: OpenBehavior, miniaturized microscope, calcium imaging microscope, microscope, synchronous acquisition, freely behaving mice, neural activity, brain distant regions, synchronously measure single cell activity,

Funding: NICHD P50HD103577;
NINDS 1R61NS119708;
NINDS R01NS090930;
NINDS U01NS122124;
NSF NeuroNex Award

Availability: Free, Available for download, Freely available

Resource Name: E-Scope

Resource ID: SCR_025396

Alternate URLs: http://miniscope.org/index.php/Main_Page,
<https://edspace.american.edu/openbehavior/?s=E-Scope>

Record Creation Time: 20240606T053247+0000

Record Last Update: 20260904T000956+0000

Ratings and Alerts

No rating or validation information has been found for E-Scope.

No alerts have been found for E-Scope.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Zhou YQ, et al. (2024) Vector coding and place coding in hippocampus share a common directional signal. Nature communications, 15(1), 10630.

Kostin A, et al. (2023) Calcium Dynamics of the Ventrolateral Preoptic GABAergic Neurons during Spontaneous Sleep-Waking and in Response to Homeostatic Sleep Demands. International journal of molecular sciences, 24(9).

Guo C, et al. (2023) Miniscope-LFOV: A large-field-of-view, single-cell-resolution, miniature microscope for wired and wire-free imaging of neural dynamics in freely behaving animals. Science advances, 9(16), eadg3918.