Resource Summary Report

Generated by NIF on May 23, 2025

PROPixx

RRID:SCR_013299
Type: Tool

Proper Citation

PROPixx (RRID:SCR_013299)

Resource Information

URL: https://drive.google.com/file/d/1Z4L7u0OI-gCSTAZXouo8XL8t6FEFVInF/view

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Description: A unique DLP LED projector which has been designed to be the most flexible display solution for vision research and neuroscience research. The PROPixx features a native resolution of 1920 x 1080, and can be driven with refresh rate up to 500Hz with deterministic timing. The PROPixx uses high brightness LEDs as a light source, giving a wide colour gamut and much longer lifetime than halogen light sources. It features high-bit depth, up to 12-bit per color for high-frequency full colour stimulation. For stereo vision applications, our high-speed ferro-electric circular polarizer can project stereoscopic stimuli with the use of passive glasses at up to 400Hz. In addition the PROPixx includes an array of peripherals which often need to be synchronized to video during an experiment, and with perfect microsecond precision.

Abbreviations: PROPixx

Synonyms: PROPixx DLP LED projector

Resource Type: instrument resource

Keywords: eeg, experiment control, eye tracking, hardware, meg, physiological recording, physiological stimulation, response monitoring, scanner, stimulus presentation, led projector, vision, stimulus, eye tracking device, instrument, equipment

Funding:

Resource Name: PROPixx

Resource ID: SCR_013299

Alternate IDs: nlx_155833

Alternate URLs: http://www.nitrc.org/projects/dlp_projector,
https://vpixx.com/products/propixx/

Old URLs: http://www.vpixx.com/products/visual-stimulus-displays/propixx.html

Record Creation Time: 20220129T080315+0000

Record Last Update: 20250519T203804+0000

Ratings and Alerts

No rating or validation information has been found for PROPixx.

No alerts have been found for PROPixx.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 60 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Baykan C, et al. (2025) Electroencephalographic Responses to the Number of Objects in Partially Occluded and Uncovered Scenes. Journal of cognitive neuroscience, 37(1), 227.

Qian M, et al. (2025) Multiple loci for foveolar vision in macaque monkey visual cortex. Nature neuroscience, 28(1), 137.

Westerberg JA, et al. (2025) Adaptation, not prediction, drives neuronal spiking responses in mammalian sensory cortex. bioRxiv : the preprint server for biology.

Ryu H, et al. (2024) Decoding visual fatigue in a visual search task selectively manipulated via myopia-correcting lenses. Frontiers in neuroscience, 18, 1307688.

Doherty JL, et al. (2024) Atypical cortical networks in children at high-genetic risk of psychiatric and neurodevelopmental disorders. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 49(2), 368.

Tardeh PUD, et al. (2024) Default Reference Frames for Angular Expansion in the

Perception of Visual Direction. Vision (Basel, Switzerland), 8(1).

Goldstein-Marcusohn Y, et al. (2024) The large-scale organization of shape processing in the ventral and dorsal pathways is dissociable from attention. Cerebral cortex (New York, N.Y. : 1991), 34(6).

Pan Y, et al. (2024) Early parafoveal semantic integration in natural reading. eLife, 12.

Wang Z, et al. (2024) Dynamic modulation of the processing of unpredicted technical errors by the posterior cingulate and the default mode network. Scientific reports, 14(1), 13467.

Deodato M, et al. (2024) Continuous temporal integration in the human visual system. Journal of vision, 24(13), 5.

Malania M, et al. (2024) Training-induced changes in population receptive field properties in visual cortex: Impact of eccentric vision training on population receptive field properties and the crowding effect. Journal of vision, 24(5), 7.

Goktepe N, et al. (2024) Frequency-specific and periodic masking of peripheral characters by delayed foveal input. Scientific reports, 14(1), 4642.

Davis ZW, et al. (2023) Spike-phase coupling patterns reveal laminar identity in primate cortex. eLife, 12.

Wagner I, et al. (2023) Humans trade off search costs and accuracy in a combined visual search and perceptual task. Attention, perception & psychophysics, 85(1), 23.

Pavan A, et al. (2023) Lack of orientation specific adaptation to vertically oriented Glass patterns in human visual cortex: an fMRI adaptation investigation. Scientific reports, 13(1), 12362.

Hardy SM, et al. (2023) Modulation in alpha band activity reflects syntax composition: an MEG study of minimal syntactic binding. Cerebral cortex (New York, N.Y. : 1991), 33(3), 497.

Talluri BC, et al. (2023) Activity in primate visual cortex is minimally driven by spontaneous movements. Nature neuroscience, 26(11), 1953.

Fabius JH, et al. (2023) Bilateral increase in MEG planar gradients prior to saccade onset. Scientific reports, 13(1), 5830.

Xie XY, et al. (2023) Serial dependence in orientation judgments at the time of saccades. Journal of vision, 23(7), 7.

Hebart MN, et al. (2023) THINGS-data, a multimodal collection of large-scale datasets for investigating object representations in human brain and behavior. eLife, 12.