Resource Summary Report

Generated by RRID on Sep 10, 2026

VPixx: VIEWPixx

RRID:SCR_013271
Type: Tool

Proper Citation

VPixx: VIEWPixx (RRID:SCR_013271)

Resource Information

URL: https://vpixx.com/products/viewpixx/

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Description: Research-grade, CRT-replacement LCD display system for vision science and psychophysics. It combines a 22.5? 1920×1200 industrial LCD (wide 176°/176° viewing angles) with a custom panel/video controller engineered for deterministic stimulus timing and synchronized acquisition. The display supports 12-bit intensity resolution per RGB channel via custom video modes. It uses a scanning RGB LED backlight to improve temporal precision (e.g., crisp frame transitions and reduced motion artifacts) while bypassing consumer “enhancement” processing to keep output predictable for experiments. VIEWPixx also integrates microsecond-synchronized peripherals commonly needed in timing-sensitive paradigms—24-channel TTL I/O (triggers), stereo audio I/O, analog I/O, and a button-box interface—implemented on the same board as the video pipeline for tight hardware-to-video synchronization.

Resource Type: instrument resource

Keywords: eeg, meg, electrocorticography, experiment control, hardware, magnetic resonance, physiological recording, physiological stimulation, response monitoring, stimulus presentation

Availability: This product is discontinued as of January 2024.

Resource Name: VPixx: VIEWPixx

Resource ID: SCR_013271

Alternate IDs: nlx_155838

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

Record Creation Time: 20220129T080315+0000

Record Last Update: 20260905T132734+0000

Ratings and Alerts

No rating or validation information has been found for VPixx: VIEWPixx.

No alerts have been found for VPixx: VIEWPixx.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

Vivar-Lazo M, et al. (2026) Neural basis of concurrent deliberation toward a choice and confidence judgment. Nature neuroscience, 29(1), 159.

Zamboni E, et al. (2026) Early spatiotemporal dynamics of navigational affordance coding in the dorsal visual cortex. Nature communications, 17(1), 1361.

Wang B, et al. (2026) Neuronal tuning aligns dynamically with object and texture manifolds across the visual hierarchy. Nature neuroscience, 29(4), 864.

Tosato T, et al. (2025) Performance modulations phase-locked to action depend on internal state. iScience, 28(1), 111691.

Jung DY, et al. (2025) Distractor anticipation during working memory is associated with theta and beta oscillations across spatial scales. Frontiers in integrative neuroscience, 19, 1553521.

Ovsepian R, et al. (2025) Robust generalization of tuning to self-induced sensation. iScience, 28(6), 112563.

Yu G, et al. (2024) Short-latency preference for faces in primate superior colliculus depends on visual cortex. Neuron, 112(16), 2814.

de Lissa P, et al. (2021) Rapid saccadic categorization of other-race faces. Journal of vision, 21(12), 1.

Song Y, et al. (2021) Saccadic adaptation in the presence of artificial central scotomas. Journal of vision, 21(1), 8.

Rose O, et al. (2021) Visual prototypes in the ventral stream are attuned to complexity and gaze behavior. Nature communications, 12(1), 6723.

Hübner C, et al. (2021) Rapid visual adaptation persists across saccades. iScience, 24(9), 102986.

Hallenbeck GE, et al. (2021) Working memory representations in visual cortex mediate distraction effects. Nature communications, 12(1), 4714.

Bogadhi AR, et al. (2021) Midbrain activity shapes high-level visual properties in the primate temporal cortex. Neuron, 109(4), 690.

Kim S, et al. (2020) Natural scene statistics predict how humans pool information across space in surface tilt estimation. PLoS computational biology, 16(6), e1007947.

Bosco A, et al. (2020) Trans-saccadic adaptation of perceived size independent of saccadic adaptation. Journal of vision, 20(7), 19.

Virtanen LS, et al. (2020) Color ensembles: Sampling and averaging spatial hue distributions. Journal of vision, 20(5), 1.

Gantman A, et al. (2020) The time course of moral perception: an ERP investigation of the moral pop-out effect. Social cognitive and affective neuroscience, 15(2), 235.

Hernández-Lorca M, et al. (2019) Binocular rivalry and emotion: Implications for neural correlates of consciousness and emotional biases in conscious perception. Cortex; a journal devoted to the study of the nervous system and behavior, 120, 539.

Schilling T, et al. (2019) Looking Through "Rose-Tinted" Glasses: The Influence of Tint on Visual Affective Processing. Frontiers in human neuroscience, 13, 187.

Bogadhi AR, et al. (2019) Spatial Attention Deficits Are Causally Linked to an Area in Macaque Temporal Cortex. Current biology : CB, 29(5), 726.