Resource Summary Report

Generated by RRID on Apr 20, 2025

Limelight

RRID:SCR_014254
Type: Tool

Proper Citation

Limelight (RRID:SCR_014254)

Resource Information

URL: http://actimetrics.com/products/limelight/

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Description: A video tracking system designed for high-throughput behavioral experiments. LimeLight can track up to 4 arenas at once and can collect images at up to 30 frames per second for one animal or up to 8 frames per second when tracking 4 arenas at once. The tracking system has 2 different hardware configurations: the 1-camera system can be used to record 1 to 4 animals at once, while for multiple animals, each one is placed in a separate arena in one quadrant of the image. The software contains productivity features such as flexible arena setup, user-defined behavior scoring, stimulus control, and various analytical functions for quantifying behavior. The program is designed for experiments such as Open Field, Plus Maze, Radial Arm Maze, Zero Maze, Novel Object Recognition, Conditioned Place Preference, and Barnes Maze.

Resource Type: resource, time-series analysis software, data analysis software, software application, data acquisition software, software resource, data processing software

Keywords: data acquisition software, time series analysis software, data analysis software, video tracking system, behavioral experiment, high throughput, hardware, instrument, equipment

Funding:

Availability: Account required

Resource Name: Limelight

Resource ID: SCR_014254

Record Creation Time: 20220129T080319+0000

Record Last Update: 20250420T014710+0000

Ratings and Alerts

No rating or validation information has been found for Limelight .

No alerts have been found for Limelight .

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Li C, et al. (2024) Protocol for two models of behavioral transition from action to no-action when facing prolonged uncontrollable experience in mice. STAR protocols, 5(2), 102967.

Xenias HS, et al. (2022) R1441C and G2019S LRRK2 knockin mice have distinct striatal molecular, physiological, and behavioral alterations. Communications biology, 5(1), 1211.

Wu J, et al. (2021) Parallel Synaptic Acetylcholine Signals Facilitate Large Monopolar Cell Repolarization and Modulate Visual Behavior in Drosophila. The Journal of neuroscience : the official journal of the Society for Neuroscience, 41(10), 2164.

McElroy GS, et al. (2020) NAD+ Regeneration Rescues Lifespan, but Not Ataxia, in a Mouse Model of Brain Mitochondrial Complex I Dysfunction. Cell metabolism, 32(2), 301.

Bruns B, et al. (2019) Learned helplessness reveals a population at risk for depressive-like behaviour after myocardial infarction in mice. ESC heart failure, 6(4), 711.

Tanimura A, et al. (2019) Cholinergic Interneurons Amplify Thalamostriatal Excitation of Striatal Indirect Pathway Neurons in Parkinson's Disease Models. Neuron, 101(3), 444.

Hinton EA, et al. (2019) Social Isolation in Adolescence Disrupts Cortical Development and Goal-Dependent Decision-Making in Adulthood, Despite Social Reintegration. eNeuro, 6(5).

Wu S, et al. (2019) Drosulfakinin signaling in fruitless circuitry antagonizes P1 neurons to regulate sexual arousal in Drosophila. Nature communications, 10(1), 4770.

Hino K, et al. (2019) Change in Brain Plasmalogen Composition by Exposure to Prenatal

Undernutrition Leads to Behavioral Impairment of Rats. The Journal of neuroscience : the official journal of the Society for Neuroscience, 39(39), 7689.

Temme SJ, et al. (2017) The L-type voltage-gated calcium channel CaV1.2 mediates fear extinction and modulates synaptic tone in the lateral amygdala. Learning & memory (Cold Spring Harbor, N.Y.), 24(11), 580.

Wilson KS, et al. (2016) Early-life glucocorticoids programme behaviour and metabolism in adulthood in zebrafish. The Journal of endocrinology, 230(1), 125.

Uchida S, et al. (2014) Learning-induced and stathmin-dependent changes in microtubule stability are critical for memory and disrupted in ageing. Nature communications, 5, 4389.

Mastwal S, et al. (2014) Phasic dopamine neuron activity elicits unique mesofrontal plasticity in adolescence. The Journal of neuroscience : the official journal of the Society for Neuroscience, 34(29), 9484.

Gafford G, et al. (2014) Grin1 receptor deletion within CRF neurons enhances fear memory. PloS one, 9(10), e111009.

Dewan A, et al. (2013) Non-redundant coding of aversive odours in the main olfactory pathway. Nature, 497(7450), 486.