

Resource Summary Report

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Molecular Devices DigiData 1440 digitizer

RRID:SCR_021038

Type: Tool

Proper Citation

Molecular Devices DigiData 1440 digitizer (RRID:SCR_021038)

Resource Information

URL:

https://neurophysics.ucsd.edu/Manuals/Axon%20Instruments/Digidata_1440A_Manual.pdf

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Description: Digitizer for electrophysiology experiments, to send and receive signals from microelectrode amplifiers, and to interact with peripheral instruments such as solution changers and stimulators. High resolution, low noise digitizer intended for precision scientific applications. Digidata 1440A digitizer communicates with the host computer using USB 2.0. It is plug and play device, so it is automatically recognized by Windows.

Synonyms: Digidata 1440A, DigiData 1440

Resource Type: instrument resource

Keywords: Electrophysiology experiments digitizer, microelectrode amplifiers signal, instrument, equipment, USEDit

Availability: Commercially available

Resource Name: Molecular Devices DigiData 1440 digitizer

Resource ID: SCR_021038

Alternate IDs: Model_Number_1440A

Ratings and Alerts

No rating or validation information has been found for Molecular Devices DigiData 1440

digitizer.

No alerts have been found for Molecular Devices DigiData 1440 digitizer.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 14 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Carlton AJ, et al. (2023) A critical period of prehearing spontaneous Ca²⁺ spiking is required for hair-bundle maintenance in inner hair cells. The EMBO journal, 42(4), e112118.

Miguel-Quesada C, et al. (2023) Astrocytes adjust the dynamic range of cortical network activity to control modality-specific sensory information processing. Cell reports, 42(8), 112950.

Hung YC, et al. (2023) Loss of oxytocin receptors in hilar mossy cells impairs social discrimination. Neurobiology of disease, 187, 106311.

Gaidin SG, et al. (2023) A novel approach for vital visualization and studying of neurons containing Ca²⁺ -permeable AMPA receptors. Journal of neurochemistry, 164(5), 583.

Kopach O, et al. (2023) Human neutrophils communicate remotely via calcium-dependent glutamate-induced glutamate release. iScience, 26(7), 107236.

Yu TH, et al. (2023) Multisession Anodal Transcranial Direct Current Stimulation Enhances Adult Hippocampal Neurogenesis and Context Discrimination in Mice. The Journal of neuroscience : the official journal of the Society for Neuroscience, 43(4), 635.

Kawanabe A, et al. (2023) ATP modulates the activity of the voltage-gated proton channel through direct binding interaction. The Journal of physiology, 601(18), 4073.

Lin YL, et al. (2022) Cellular mechanisms underlying central sensitization in a mouse model of chronic muscle pain. eLife, 11.

Tsai TC, et al. (2022) Distinct Contribution of Granular and Agranular Subdivisions of the Retrosplenial Cortex to Remote Contextual Fear Memory Retrieval. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(5), 877.

Kolling LJ, et al. (2022) Modulating the Excitability of Olfactory Output Neurons Affects Whole-Body Metabolism. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(30), 5966.

Bony AR, et al. (2022) Analgesic γ -conotoxins modulate native and recombinant GIRK1/2 channels via activation of GABAB receptors and reduce neuroexcitability. *British journal of pharmacology*, 179(1), 179.

Barettino C, et al. (2021) Developmental Disruption of Erbb4 in Pet1+ Neurons Impairs Serotonergic Sub-System Connectivity and Memory Formation. *Frontiers in cell and developmental biology*, 9, 770458.

Beekhof GC, et al. (2021) Differential spatiotemporal development of Purkinje cell populations and cerebellum-dependent sensorimotor behaviors. *eLife*, 10.

Karagiannis A, et al. (2021) Lactate is an energy substrate for rodent cortical neurons and enhances their firing activity. *eLife*, 10.