

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

Record Creation Time: 20220129T080353+0000

Record Last Update: 20260801T190704+0000

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 29 mentions in open access literature.

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

Cheng KH, et al. (2026) Conditional deletion of Cc2d1a increases irritability-like behavior by decreasing oxytocin expression via the prelimbic-hypothalamic pathway. *Journal of biomedical science*, 33(1).

Engel D, et al. (2026) Protocol for whole-cell patch-clamp recording and post hoc identification of hippocampal CA2 pyramidal neurons in adult mouse brain slices. *STAR protocols*, 7(2), 104470.

Benfey NJ, et al. (2026) Norepinephrine acts through radial astrocytes in the developing optic tectum to enhance threat detection and escape behavior. *Cell reports*, 45(2), 116911.

Fan J, et al. (2026) Neto2 Phosphorylation Promotes Neuronal Loss in KA-Induced Epileptic Rat Hippocampus by Upregulating the Interaction with GluK2. *Neurochemical research*, 51(3).

D'Addario SL, et al. (2026) Effects of neuromelanin buildup in rodent nigral dopamine neurons: implications for sex-biased vulnerability in Parkinson's disease. *Neurobiology of disease*, 223, 107378.

Losgott T, et al. (2025) Gaussian white noise stimulation as an alternative method to excite sensory neurons. *Frontiers in pharmacology*, 16, 1561905.

Kolling LJ, et al. (2025) The superficial tufted and mitral cell output neurons of the mouse olfactory bulb have dual roles in insulin sensing. *Journal of cell science*, 138(19).

Ikefuama EC, et al. (2025) Presymptomatic targeted circuit manipulation for ameliorating Huntington's disease pathogenesis. *iScience*, 28(3), 112022.

Le Gac B, et al. (2025) Elevated pyramidal cell firing orchestrates arteriolar vasoconstriction through COX-2-derived prostaglandin E2 signaling. *eLife*, 13.

Miyasaka A, et al. (2025) Sequential transitions of male sexual behaviors driven by dual acetylcholine-dopamine dynamics. *Neuron*, 113(8), 1240.

Kolling LJ, et al. (2025) The superficial tufted and mitral cell output neurons of the mouse olfactory bulb have dual roles in insulin sensing. *bioRxiv : the preprint server for biology*.

Cano JC, et al. (2025) Newly generated striatal neurons rescue motor circuitry in a Huntington's disease mouse model. *Cell reports*, 44(4), 115440.

Ma X, et al. (2024) ElecFeX is a user-friendly toolbox for efficient feature extraction from single-cell electrophysiological recordings. *Cell reports methods*, 4(6), 100791.

Contini D, et al. (2024) Simultaneous recordings from vestibular Type I hair cells and their calyceal afferents in mice. *Frontiers in neurology*, 15, 1434026.

Nascimento F, et al. (2024) Spinal microcircuits go through multiphasic homeostatic compensations in a mouse model of motoneuron degeneration. *Cell reports*, 43(12), 115046.

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.

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

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.

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.

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.