

Resource Summary Report

Generated by PRECISE-TBI on Sep 17, 2026

Lab Streaming Layer

RRID:SCR_017631

Type: Tool

Proper Citation

Lab Streaming Layer (RRID:SCR_017631)

Resource Information

URL: <https://github.com/sccn/labstreaminglayer>

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Description: System for unified collection of measurement time series in research experiments that handles networking, time synchronization, near real time access as well as optionally centralized collection, viewing and disk recording of data. System for synchronizing streaming data for live analysis or recording.

Abbreviations: LSL

Synonyms: Lab Streaming Layer

Resource Type: software application, software resource

Keywords: Synchronizing, streaming, data, live, analysis, recording, collection, time, series, EEG

Funding: Army Research Laboratory ;
NINDS R01 NS047293

Availability: Free, Freely available

Resource Name: Lab Streaming Layer

Resource ID: SCR_017631

Record Creation Time: 20220129T080336+0000

Record Last Update: 20260912T200255+0000

Ratings and Alerts

No rating or validation information has been found for Lab Streaming Layer.

No alerts have been found for Lab Streaming Layer.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 86 mentions in open access literature.

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

Nicklas PR, et al. (2026) A symphony of functioning: exploring the interplay of cognition, movement, and visual demands in adolescents on the autism spectrum using mobile brain-body imaging (MoBI). Journal of neurodevelopmental disorders, 18(1).

Meier M, et al. (2026) Everyday Activity??Science and Engineering Table Setting Dataset. Scientific data, 13(1).

Toni L, et al. (2026) Decoding lower-limb movement attempts from electro-encephalographic signals in spinal cord injury patients. APL bioengineering, 10(1), 016105.

Klein F, et al. (2026) Exploring fNIRS-guided neurofeedback for supplementary motor area training in Parkinson's disease and healthy older adults. NPJ Parkinson's disease, 12(1).

Cheng X, et al. (2025) Promoting Social Connectedness Through Interbrain Neurofeedback. Annals of the New York Academy of Sciences, 1554(1), 267.

Molina-Cantero AJ, et al. (2025) Evaluating the effectiveness of integrating biofeedback in the treatment of aggressive outbursts (BRET-IA2): A study protocol. PloS one, 20(7), e0327361.

Yoshida A, et al. (2025) A multi-user multi-robot multi-goal multi-device human-robot interaction manipulation benchmark. Frontiers in robotics and AI, 12, 1528754.

Chen X, et al. (2025) Walking Modulates Active Auditory Sensing. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(45).

Lor CS, et al. (2025) SpiderPhy dataset: A multimodal dataset of Physiological, Psychometric and Behavioral Responses to fear stimuli. Scientific data, 12(1), 599.

Khatri UU, et al. (2025) Personalized whole-brain activity patterns predict human corticospinal tract activation in real-time. Brain stimulation, 18(1), 64.

Nolte D, et al. (2025) Combining EEG and eye-tracking in virtual reality: Obtaining fixation-onset event-related potentials and event-related spectral perturbations. Attention, perception & psychophysics, 87(1), 207.

Miyakoshi M, et al. (2025) EEG power modulation in the sensorimotor regions is critical to motor tic suppression. *Frontiers in psychiatry*, 16, 1580636.

Shehabi S, et al. (2025) Individual Differences in Cognition and Perception Predict Neural Processing of Speech in Noise for Audiometrically Normal Listeners. *eNeuro*, 12(4).

Kisker J, et al. (2025) Comparative analysis of early visual processes across presentation modalities: The event-related potential evoked by real-life, virtual reality, and planar objects. *Cognitive, affective & behavioral neuroscience*, 25(4), 1022.

Gowda HT, et al. (2025) A database of upper limb surface electromyogram signals from demographically diverse individuals. *Scientific data*, 12(1), 517.

Bhadra K, et al. (2025) Learning to operate an imagined speech Brain-Computer Interface involves the spatial and frequency tuning of neural activity. *Communications biology*, 8(1), 271.

Yasuhara M, et al. (2025) Error-related potentials during multitasking involving sensorimotor control: an ERP and offline decoding study for brain-computer interface. *Frontiers in human neuroscience*, 19, 1516721.

Kisker J, et al. (2025) Visual information processing of 2D, virtual 3D and real-world objects marked by theta band responses: Visuospatial processing and cognitive load as a function of modality. *The European journal of neuroscience*, 61(1), e16634.

Nicklas P, et al. (2025) A symphony of functioning: Assessing the interplay of cognition, movement, and visual processing in adolescents on the autism spectrum using mobile brain-body imaging (MoBI). *Research square*.

Liu H, et al. (2025) A Novel Real-time Phase Prediction Network in EEG Rhythm. *Neuroscience bulletin*, 41(3), 391.