

Resource Summary Report

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Braintelemetry

RRID:SCR_008607

Type: Tool

Proper Citation

Braintelemetry (RRID:SCR_008607)

Resource Information

URL: <http://www.braintelemetry.com>

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Description: The LVC64 accepts 64 microvolt-level buffered input signals from headstage preamps and serves as a 24-bit recording device. It is connected to a PC with an USB2.0 cable and provides a complete digital system to record broadband bioelectric signals. It has two parts such as a 64-channel ADC unit and a digital interface & power supply unit. Between these units there is a slip ring commutator and a DC motor. The main features of the LVC system include: Up to 128 Analog inputs per system; Each Analog input is sampled with an individual 24 bit delta-sigma A/D converter Analog inputs are simultaneously sampled at 1750 to 32000 samples per second In addition to multiple unit activity - the EEG, field potentials and behavioral marker signals are recorded simultaneously in the same file Full scale analog input range is 5 millivolts RMS (14 mV peak-to-peak) Analog inputs are differential inputs Extremely low input referred noise levels of max. 8 uV peak-to-peak Direct headstage tether and tether extension cable inputs Slip ring commutator for un-twisting the twisted tether cable Headstage power supplies Up to 24 bit TTL compatible Parallel Input Port for monitoring external signals and external Timestamp Clock input and output for multiple system synchronization Totally electrically isolated system from AC Power and Ground "Microvolts-to-harddisk dumper" data acquisition program running in host PC (32-bit MS Window XP) Online display of records during data acquisition in Host PC's monitor Offline spike sorting by Cooperative Linux software of the Host PC

Synonyms: Braintelemetry

Resource Type: software resource

Resource Name: Braintelemetry

Resource ID: SCR_008607

Alternate IDs: nif-0000-31947

Record Creation Time: 20220129T080248+0000

Record Last Update: 20260912T195706+0000

Ratings and Alerts

No rating or validation information has been found for Braintelemetry.

No alerts have been found for Braintelemetry.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Csicsvari J, et al. (2007) Place-selective firing contributes to the reverse-order reactivation of CA1 pyramidal cells during sharp waves in open-field exploration. The European journal of neuroscience, 26(3), 704.

Máthé K, et al. (2007) Implementation of a miniature sized, battery powered electrophysiological signal-generator for testing multi-channel recording equipments. Journal of neuroscience methods, 165(1), 1.