



D-LAB

CONNECT

// D-LAB CONNECT allows synchronous recording of multiple data channels on different frequencies from nearly any kind of data source.

With this software module you can record, visualize and analyze TCP/IP data or physiological data from various sensors or physio devices. GPS data can also be recorded and analyzed. The GPS position and path can be displayed directly in a map view. With D-LAB Connect you are able to gather great insights in your subjects' position, states and reactions to better understand their behavior. The powerful and freely configurable diagrams and the integrated statistics function enable to visualize and precisely analyze the recorded data streams and numerous physiological values such as EEG, EMG, ECG, heart rate, skin conductance, temperature, acceleration and many others.

D-LAB CONNECT

D-LAB data acquisition platform for behavioral research provides you with efficient and reliable support through all phases of your ergonomic and usability studies. It helps to plan your studies, record data from various channels and generate the final results via automated analysis. D-LAB can cope with different frequencies for each of the data channels, works across multiple subjects and records all input data synchronously. With its modular structure it can be used for just one sensor type – such as D-LAB Connect – or in combination with many other input channels like eye tracking or video.

PLAN

Definition of Tasks

Group subjects in different categories

Live data visualizations of all channels: line, point & step charts, peak chart, gauges, state diagram, map

Multi data charts (of the same subject)

Real time access to all available data

MEASURE

Live data visualizations: line, point & step charts, peak chart, gauges, state diagram, map

Multi data charts (of the same subject)

Real time access to all recorded data

Real time comments

Real time task triggering

Supports USB GPS receivers (please see FAQ for compatibility)

ANALYSE

Data visualizations: line, point & step charts, peak chart, gauges, state diagram, map

Calculation of average, standard deviation and other statistical values

Export of all recorded and computed data as text files

Manual calibration / slippage correction

Export of data stream statistics

Multi data charts (of the same subject)

Task based analysis

Task based data export

Time Line visualisation of triggered tasks and events

Analyse Latitude, Longitude, Height, time of GPS data

Multi subject charts

Definition and calculation of user defined values based on all recorded data (scripting language)

SUPPORTED PHYSIOLOGICAL DEVICES

Varioport device, BECKER Meditech

Enobio, Neuroelectrics

E4, Empatica

Procomp Infinity, Thought Technology

SUPPORTED TCP/IP CONNECTIONS

D-Lab act as server

Unlimited TCP/IP clients can push data to D-Lab

IP address range freely configurable

IP port number freely configurable

SENSORCONNECT APP (ERGONEERS)

Live View in D-LAB

Pulse, heart rate variability, GSR, skin temperature and acceleration (requires Empatica E4 wristband)

Acquisition of GPS data and pedometer