ERGONEERS

FROM SCIENCE TO INNOVATION

D-LAB

EYE TRACKING
HEAD MOUNTED

// Find out where participants are looking at by
using D-LAB and a head mounted eye tracker.
It allows you to precisely see and analyze auto-
matically where a person is looking at. D-LAB Eye
Tracking Head Mounted provides powerful visua-
lizations and metrics to perfectly understand your
subjects' pupil movement and gaze behavior.

D-LAB EYE TRACKING HEAD MOUNTED

D-Lab data aquisition 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 Eye Tracking Head Mounted – or in combination with many other input channels like video or data stream.

PLAN

Calibration wizzard

Definition of Tasks

Group subjects in different categories

Visualizations for numerical data: line, point & step charts, peak chart, gauges, state diagram etc.

MEASURE

Blending mode of scene and eye camera

Live view of gaze behavior

Live view of gaze and pupil cordinates and pupil geometry

Live view of the eye video with pupil detection

Manual calibration

Real time task triggering

Real time comments

Visualizations for numerical data: line, point & step charts, peak chart, gauges, state diagram etc.

Real time access to gaze data in world coordinates (marker based)

Real time marker detection

Real time visualization of glances on AOIs

ANALYSE

Blending mode of scene and eye camera

Calculation of glance based metrics and statistics according to ISO standard

Definition of manual and static AOIs

Export of eye tracking statistics

Export of eye videos

Export of gaze video (with gaze cross, with or without blending of the eye)

Export of AOI glances

Export of scene coordinates

Manual calibration

Multi data charts (of the same subject)

Playback of gaze video (overlayed eye video possible)

Saccades and fixations based measures

Screenshot and video cast of all visualisations

Task based analysis

Task based data export

Time line visualisation of AOI glances

Time Line visualisation of saccades and fixations

Time Line visualisation of triggered tasks and events

Verification and adjustment of pupil detection

Visualizations for numerical data: line, point & step charts, peak chart, gauges, state diagram etc.

Export of scene coordinates

Automated calculation of AOI glances using markers

Definition of marker bounded AOIs

Export of fixation point real world coordinates (marker based)

Definition and calculation of user defined metrics based on all available data (scripting language)