

MAPPS™

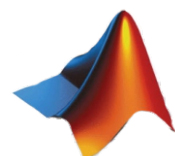
Multi-modal Analysis of Psychophysiological and Performance Signals

Analysis software
that's intuitive
and powerful.

- 1 EYE TRACKING
- 2 PHYSIOLOGY
- 3 BEHAVIORAL
- 4 VIDEO
- 5 AUDIO



eyesDx®
Exploring human
behavior objectively



With MATLAB® Integration

INPUT

- Real-time synchronization
- Any data rate, variable data rate
- Any data type
- Tightly time-synced across multiple machines
- H.264 video compression

REAL-TIME SYNCHRONIZATION



record subject facing video



record scene camera



LIVE MONITORING AND ANALYSIS



SEARCHABLE DATABASE



record human physiology



record microphone audio



capture computer displays



record multiple simultaneous subject eye tracking



record mouse and keyboard input

MATLAB INTEGRATION

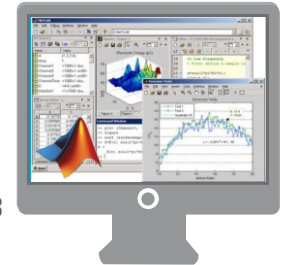
- Tightly coupled, bi-directional data sharing.
- Live editing and exporting.
- Sync and buffering automatically provided.
- Easily perform custom fixations, heatmaps, and filtering.
- Do your signal processing in MATLAB®. Use MAPPS™ to visualize results.
- Powerful signals page.



MAPPSS™



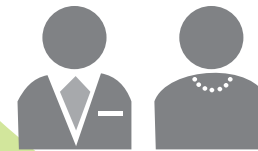
Easily transfer signals live between MAPPSS and MATLAB



MATLAB®

EYE TRACKING

- Multi-subject eye tracking.
- Heatmaps, including colored, multi-subject, and blur.
- Live analysis of data.



Single or multiple subjects.



Different types of heatmaps.



Live analysis.

MAPPS™

FEATURES

- 1 Intuitive graphical user interface.
- 2 Cross-platform support.
 - + Windows XP - 8, coming soon to Mac OS and Ubuntu Linux.
- 3 Integrates scene video input from built-in screen capturing tool and webcams. Unlimited video sources.
- 4 Interact and record data from third-party hardware devices.
 - + e.g. Biopac, Nexus, ABM's X10 EEG system, Zephyr, Zynex, Shimmer Mindo. Customer integration requests welcome.
- 5 Recording and playback of GPS tracking data.
- 6 Gaze calibration on 2D surfaces.
- 7 Real-time and post-processing modes of analysis.
- 8 Powerful tools for scrolling through video and selection of analysis time windows.
- 9 Click-and-drag definition of static and dynamic regions of interest (ROIs).
- 10 On-the-fly selection of fixation parameters.
- 11 Graphical data output of gaze variables.
 - + e.g. crosshair, gaze trail, fixations.
- 12 User-selected video overlays.
 - + e.g. Colored and shadow heatmaps, gaze cone.
- 13 Summary graphs of processed data.
 - + e.g. Pie chart of ROI fixation over selected time window.
- 14 User-directed video recording of analysis results.
- 15 Easy export of graph data to Excel.
- 16 Improved signal processing and video compression algorithms.
- 17 Record and play back synchronized audio.
- 18 Enables analysis and visualization of multiple simultaneous subjects.
- 19 Heart rate analysis.
 - + Locate QRS complex locations, compute heart rate and variability, Poincare analysis.
- 20 Provides an API which allows ROIs to be marked in real-time as they are generated.
 - + Useful in simulator environments where ROI may be known at run time and can be transmitted and saved automatically.
- 21 MATLAB® and third-party application API:
 - + Request and access synchronized multi-modal data streams from MAPPS™ in real time.
 - + Publish data to MAPPS™ for visualization in real time.
 - + Implicit data synchronization.
 - + Data types supported include signals, video overlays, graphs, and ROIs.

info@eyesdx.com
www.eyesdx.com
tel: +1.724.739.3739
eyesDx, Inc.
941 25th Ave., #163
Coralville, IA 52241