MangoldVision

Eye tracking made easy

Use MangoldVision for Your Eye Tracking Projects

MangoldVision lets you **design**, **carry out** and **evaluate** structured eye tracking tests with different stimuli. Randomization and a **dynamic**, **user-interactive** testing process are also possible.

Three Steps to Professional Results

1 Design

Easily design your project with MangoldVision through **drag-and-drop.**

Use **images, videos, web pages and text as stimuli, or capture dynamic screen content** during test sessions.

Use **interactive questionnaires** to collect **key variables** and **sociodemographic data** for each subject during testing.

2 Record

MangoldVision executes your project **automatically** and guides your participants through the test.

In addition to **recording gaze data** and depending on your requirements, MangoldVision can also record the **user's face, verbalizations and other actions.**

3 Analyze

MangoldVision **visualizes your data professionally** with just a few clicks.

Define **areas of interest** and let MangoldVision display **statistical evaluations** based on these areas.

Use **sociodemographic data** and other variables as **filters** to form different data sets.

Easily group multiple projects together to get aggregated evaluations.

Export all raw data, calculations, and visualizations for use in other **scientific reporting or presentation programs**.
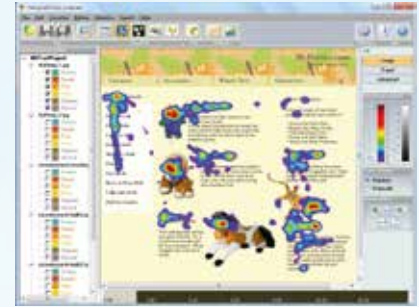
Gaze Plotting
Gives excellent insight into the viewing behavior and gaze patterns of your participants. See how they explore your visuals.

Focus Map
A real eye-opener for any designer, researcher or developer. See what your subjects really saw and what they did not look at.

Heat Map
Shows at a glance the "high energy" areas of a stimulus on which your participants were focusing.
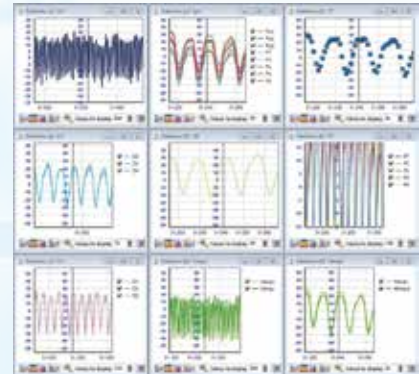
Areas of Interest
Define parts of an image for which you want to get statistical results. Mangold-Vision then calculates various key eye movement indicators based on these areas.

AOI Gaze Pattern
The Gaze Pattern Chart gives a very good impression of what specific areas of interest (AOI) the participants have seen in what order.
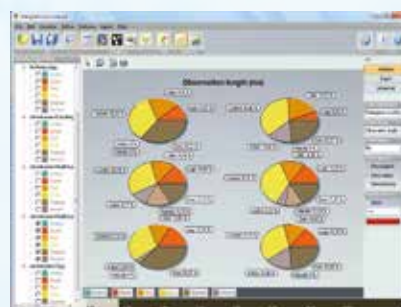
Physiological Measurements
Relate physiological measurements to recorded gaze data to get more insight into the user experience of your participants with the optional DataView module.

Statistical Results
Calculate statistical results from gaze data at the push of a button, making it easy for you to interpret data, prepare reports and compare studies.

Export and Visualization
MangoldVision offers data export possibilities and amazing charting options.

MangoldVision
See through your participants' eyes

Mangold**Vision**

The Outstanding Advantages of MangoldVision

Multi-Tracker and Multi-Monitor Support
Use multiple computer monitors and multiple eye trackers during a single testing session.

Create Arbitrary Stimulus Sequences
Using images, text, videos, web pages, questionnaires and captured screenshots.

Static, Dynamic and Audio-Assisted Calibration
Recalibration during testing also available.

Multidimensional Stimulus Randomization

Dynamic Presentation Control
Through actions based on user input and gaze behavior.

Define Sociodemographic Data
In the form of subject attributes.

Comprehensive Data Recording
Left and right eye coordinates
Left and right eye pupil diameters
Gaze point calculated from both sets of eye coordinates
Exact timestamp for each sample
Mouse coordinates and keystrokes
Record participants via webcam.
Record screen content via screencast.

Easy Data Management
Easily copy entire projects between computers.
Easily merge different projects.
Filter data based on subject attributes.

Extensive AOI Analysis
Automatic AOI generation
AOI editor with arbitrary polygons for static images
AOI editor with arbitrary polygons for moving and morphing AOIs on videos
AOI statistical analysis
AOI gaze pattern visualization

Meaningful Results Presentation
Static and dynamic heat maps
Static and dynamic focus maps
Static and dynamic gaze plot visualization

Easy Data Import and Export
Import data from other eye tracking systems.
Export all recorded raw gaze data.
Export all visualizations.
Integrate physiological measurements with DataView.

Remote Observation
Network transmission of eye tracking sessions for remote observation

Quality Assurance
Track status feedback to the subject and/or test leader.
Adjustable gaze data aggregation for fixation calculations
Post-hoc gaze data recalibration option
Adjustable data smoothing

Eye Tracking
Hardware

VT3-mini Eye Tracker
Big Technology in a Small Package

For use with

MangoldVision &
LogSquare®

Fast
Large headbox and rapid recovery through on-board image processing

Powerful
Integrated computer for high-speed data processing

Reliable
Gaze data with instant on-board time stamping

Robust
Optimized for mobile and stationary applications

Automatic
Binocular and monocular tracking

Mobile

+

Stationary

Model: VT3 Mini V2.0

Sampling rate: 40/60/120/200 Hz, depending on model
Latency: instant high-speed on-chip image processing
Tracking method: binocular and monocular/dark pupil
Accuracy: approx. 0.5°/drift < 0.3°, depending on setup
Working distance: approx. 50-70 cm (19.7 – 27.6 in)
Screen size: max. 22" (56 cm) Custom configurations for larger screens available.
Headbox: (W x H x D) 40/60 Hz: 31.5 x 22.5 x 20 cm (12.4 x 8.9 x 7.9 in);
120 Hz: 20 x 5 x 20 cm (7.9 x 1.9 x 7.9 in); 200 Hz: 9 x 4 x 20 cm (3.5 x 1.5 x 7.9 in)
Weight: approx. 210 g (0.5 lbs)
Dimensions: (W x H x D) approx. 25 x 2.6 x 3.2 cm (10 x 1 x 1.3 in)
USB 2.0 or 3.0   **Power** 3-4 W   **Certificates:** CE und FCC

Mangold
Your Partner for Research

Benefit from Over 28 Years of Experience

Thousands of satisfied users in over 45 countries from a wide range of research areas rely on solutions from Mangold International.

Competence, reliability and our award-winning customer service make Mangold International the first choice for installing your custom research lab.

We Support You Right from the Start

"The INTERACT® software is flexible, user friendly and rich in its capabilities. But, more importantly, the support staff at Mangold is unparalleled."

Dr. Catherine Tamis-LeMonda, New York University in the United States

"The MangoldVision eye tracking system is portable and easy to use. The software suite is friendly and offers powerful tools to capture and analyze data."

Dr. Paulo Correia, University of Sao Paolo in Brazil

"The INTERACT® coding software from Mangold proved to be extremely useful and efficient for detailed videotape analysis of indivi - dual differences in the great apes."

Dr. Jana Uher, Free University of Berlin in Germany

"We have put the lab equipment to use. We are really fascinated."

Gwatirera Javangwe, University of Zimbabwe

"The use of INTERACT® was found to be effective and time-saving, and appears to offer a significant advantage to the analyst and hence the efficiency of the research process."

Dr. Zafer Bilda, consultant and research scientist in Australia

"To our psychology/neuroscience laboratory with various research interests, INTERACT® is the best choice for us to solve the problem of multi-channel synchronization and explore the complicated relationships between psychological and physiological responses in topics of research such as user experience (UX), applied cognition, and sports science."

Prof. Hung-Wei Lee, Hsuan Chuang University in Taiwan

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