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. MangoldVision 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.

**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.

**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.

**MangoldVision**
See through your participants’ eyes.
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
VT3-mini Eye Tracker
Big Technology in a Small Package

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

Eye Tracking
Hardware

VT3-mini Eye Tracker
Big Technology in a Small Package

For use with

Mangold Vision & 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

LogSquare® Fast
Large headbox and rapid recovery through on-board image processing
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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 INTERACT® coding software from Mangold proved to be extremely useful and efficient for detailed videotape analysis of individual 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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www.mangold-international.com
twitter.com/MangoldInt

Mangold International GmbH // E-Mail: info@mangold-international.com
International Phone: +49 (0)8723 978 - 330 // US / Canada Phone: 404 537 2170