EXPLORE EYE MOVEMENTS

TOM Research Stationary

NEW

TOM Research Mobile

NEW
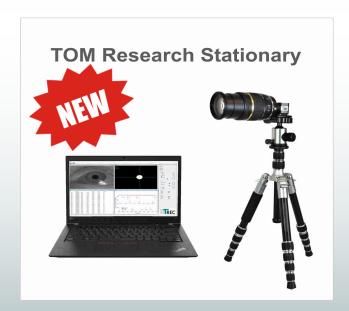
- Fast scan rate up to 2000Hz (@512x244px)
- Accuracy 0.03°, precision 0.003°
- Working distance 25-300cm
- Software for MS Windows, Linux, Mac
- Analog output, LAN interface

- 8,4" touch sensitive display, Full HD @30Hz
- Fully integrated psychophysical research device
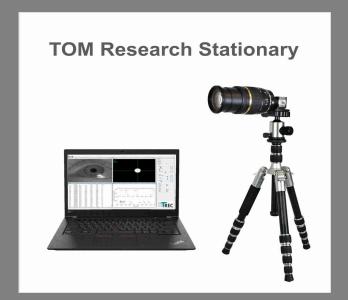- Low weight (464g)
- Easy handling

EYE-TREC© - the new brand for versatile eye tracking systems
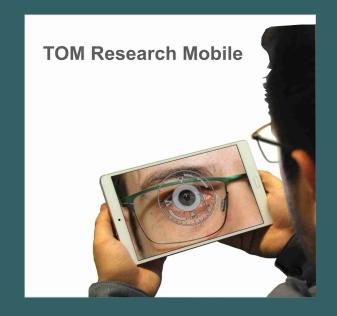
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TOM Research Stationary

The **Thomas Oculus Motus (TOM) Research Stationary** system is the most precise and versatile eye tracking system presently available on the market. Due to its superior results, high flexibility and plug-and-play handling, it is ideally suited for basic oculomotor and medical research in humans and non-human primates.

The **TOM Research Stationary** allows to optimize the temporal and spatial resolution of the video image, according to the researcher´s demands. Thus, unlike any other device, the eye tracker can be operated with a Full-HD resolution at approximately 200 Hz. This allows the exact detection of the most subtle eye movements, e.g. ocular microtremor. Alternatively, the eye tracker can also be operated with up to 2500 Hz with a resolution of 384 x 192px. The device offers an accuracy of 0.03° and a precision of 0.003°. Furthermore, the **TOM Research Stationary** allows to record the full 3-D movement of the eyes, i.e. also the **torsional eye movement component**. This feature easily opens a rather unexplored parameter space and allows to identify new biomarkers or neural correlates of oculomotor functions. Additionally, it is fully mobile between recording sessions and can be setup within minutes in almost any environment. It can be operated at different working distances between 25 – 300 cm, without additional equipment. Here, the zoom lens allows to smoothly adjust the image of the eye optimally. Finally, the multi-OS software offers various comfort features such as automatic thresholding, low latency communication with other devices via LAN and analog output as well as the recording of event-related high-speed video clips.

The **TOM Research Mobile** system is the world's smallest and most lightweight (just 464g), fully integrated eye-tracker for psychophysical experiments and controlled stimulus presentation. It is fully mobile and records head-unrestrained eye movements with an accuracy of about 1° and a sampling rate of 30Hz in almost any environment. The integrated display and speakers can be used for easy presentation of pre-defined and customizable stimuli with just one click. Meanwhile, the touchscreen and the microphone can be used to record additional responses. The familiar App-based handling and the versatile mounting mechanism allows for a safe and natural use with low compliance demands. The experimental data is stored directly on the device for analysis with common software, e.g. MATLAB or SciPy. Due to the convenient usability and low price, it is ideally suited for large cohort studies or repeated measurements, autonomously performed by the subjects themselves.

TOM Research Mobile

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