

**60 Hz / 120 Hz
Sampling Rate**

RED-m

World's smallest high performance eye tracking lab

- Small and portable - ultra-light design and USB only powered
- Easy to use - fast and easy setup with laptops, tablets and monitors
- High data quality - scientific grade temporal and spatial resolution
- Ready to go - with complete software solution
- Compatible with your application - seamless integration with SMI SDK



www.smivision.com



Small and portable

The SMI RED-m remote eye tracker is an ultra-light, USB only powered, fully portable eye tracking lab by SensoMotoric Instruments (SMI). It is designed for eye tracking researchers who require maximum mobility and flexibility combined with reliable data and the comprehensive set of features and metrics of a scientific grade eye tracker.

The plug and play design enables researchers to set up a study wherever participants are: Take the eye tracking lab to a customer's site, conduct research in clinical environments, test interactive learning technologies at educational institutes and conduct in-home research.

Flexible and easy setup

The SMI RED-m allows for several different setups in lab or real-life environments: With a magnetic snap-on technology it can be attached to a desktop PC monitor. Alternatively, the balanced design with rubber feet snugly positions the SMI RED-m on a personal laptop.



High data quality

The SMI RED-m uses automatic eye tracking and head movement compensation, utilizing a large working area with high quality gaze and pupil data to ensure accurate and reliable results. The system is designed for a wide range of participants and applications where robustness is important regardless of eye color, age, glasses, contacts, environmental conditions etc.

Ready to go - with complete software solution

Combined with SMI Experiment Suite™ 360° software for experimental design and analysis, the system is a ready-to-go portable eye tracking lab solution. The fully automatic calibration takes only seconds and maintains drift-free accuracy. Flexible calibration options address experiment requirements, including 2-point, child-friendly versions.

All results easy to get

The SMI RED-m system collects all relevant eye data and allows for fast and accurate control and analysis

- Measure gaze position on surfaces (e.g. Laptop or Desktop Monitor) in screen pixels
- Measure pupil size in millimeters
- Measure 3D head / eye position in millimeters
- Export recorded data to ASCII for post-processing using statistics software (e.g. MATLAB®, SPSS®, Excel™)
- Use SMI BeGaze™ software to analyze and visualize aggregate data of target groups.

Compatible with your application

The free SMI Software Development Kit (SMI SDK) for the SMI RED-m facilitates the integration of eye tracking data with individual setups including popular stimulus software (e.g. MATLAB®, PST E-Prime®, Python, NBS Presentation) and custom applications (e.g. eye square Visualizer) written e.g. in C/C++ or -NET.

The kit supports co-registration with other data, such as synchronization with EEG.

More Information: www.smivision.com/redm

Specifications SMI RED-m

Technology

- Fully automated image processing based contact-free eye tracking and head movement compensation

Performance

- Sampling rate 60Hz and 120Hz
- Spatial resolution (RMS) 0.1°
- Gaze position accuracy 0.5°
- Operating distance subject-camera 50 - 75cm
- Tracking range (head box) 32 x 21cm at 60cm distance
- Latency (end to end) < 20ms at 60Hz
- Size 24cm x 2.5cm x 3.3cm
- Weight 130g

Interface

- Use with monitor, tablet, laptop (10" to 22")

Software

- SMI Experiment Suite™ 360° (incl. SMI BeGaze™ & SMI Experiment Center™ Professional)
- Free SDK/API
- Integration with popular stimulus/analysis software, e.g. MATLAB®, PST E-Prime®, Python, NBS Presentation, eye square Visualizer

Norm compliance

- CE, FCC, Eye Safety

Contact Information

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