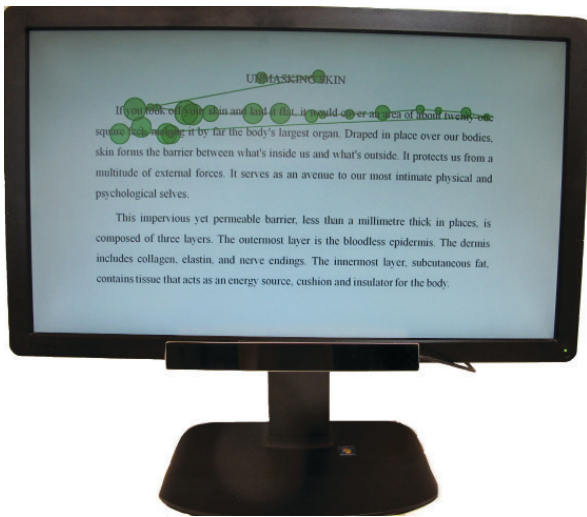


250 Hz sampling rate

RED250mobile

Mobile eye tracking lab for demanding paradigms



- Ideal for demanding applied studies like reading and linguistics studies, visual perception or neurology
- Outstanding performance and robustness
- Full mobility, ready to use in and out of the lab
- Easy interfacing with biometric data collection systems



Dr. Christopher I. Petkov, Newcastle University Medical School:

“ ... Eye-tracking with the SMI system provided the backbone for our results. Especially when using multisensory stimuli, it was critical to confirm that eye looks to the stimuli did not differ across the conditions. In this regard, the SMI system was simply indispensable ...”

Ideal for demanding applied studies like reading and linguistics studies, visual perception or neurology

SMI RED25omobile is a next generation eye tracker designed for researchers who require both mobility and high sampling rate for saccade based studies in and out of the lab.

It delivers key metrics for demanding eye tracking paradigms such as:

- Saccadic directions, velocity, amplitude
- Antisaccade metrics
- Direction of regressions, backtracks, look-aheads, leading saccades
- Fixation and blink based metrics

Engineered with a vision for the future, the SMI RED-25omobile provides a strong foundation for a modern research laboratory.

Together with Experiment Suite Scientific – SMI's experimental design and analysis software – SMI RED25omobile constitutes a comprehensive toolbox for a wide range of scientific experiments.

Outstanding performance and robustness

With high tolerance for head motion and vision corrections (glasses and contact lenses), SMI RED25omobile reliably tracks participants of all ages and ethnic backgrounds.

Extreme precision and high accuracy provided by a new generation of eye tracking algorithms ensure outstanding data quality.

Full mobility, ready to use in and out of the lab

The lightest in class device allows you to bring scientific grade eye tracking out of the lab and into the environment familiar to your participants and run experiments in their comfort zone. No extra power supply is required.

The unique combination of high mobility and performance of the eye tracker lets you reliably compare language and reading behavior across cultures, conduct research on neurological and psychiatric disorders, or unobtrusively study visual perception wherever your participants are.

Easy interfacing with biometric data collection systems

Eight TTL inputs allow to reliably synchronize eye tracking data with biometric data sources, such as EEG, either directly, or via a dedicated synchronization hardware such as StimTracker for SMI.

Learn more: www.smivision.com/red25omobile

Technical specifications

| | |
|-------------------------------------|--|
| Technology | Fully automated image processing based contact-free eye tracking and head movement compensation |
| Sampling rate | 60, 120 and 250Hz |
| Eye tracking mode | Binocular and monocular modes. Smart modes available |
| Gaze position accuracy | 0.4° |
| Spatial resolution (RMS) | 0.03° (human) |
| Calibration | 0, 1, 2, 5, 9, 13 points. Smart calibration technology |
| Operating distance subject - camera | 50-80cm |
| Tracking range (head box) | 32 x 21cm at 60cm distance |
| Interfacing | 8 TTL |
| Operator feedback | Eye images, tracking monitor |
| Interface setup | Use with monitor or laptop (10"-24") |
| Operating system | Microsoft Windows 7, Windows 8, Windows 8.1 |
| PC interface / power | USB 2.0 |
| Blink recovery time (max) | 4ms at 250Hz |
| Dimensions (width x height x depth) | 24 x 2.7 x 3cm |
| Weight | 175g incl. cable |
| Software compatibility | SMI Experiment Suite, free SMI Software Development Kit (SDK) and all software building on the SDK. SMI SDK allows integration with popular stimulus software (e.g. MATLAB, PST E-Prime®, Python, NBS Presentation®) and custom applications written e.g. in C/C++ and .NET. |
| Eyewear compatibility | Works well with most glasses and lenses |
| Norm compliance | CE/FCC, Eye Safety EN60601-1-2+EN55011, class B |

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