

iView X™ HED

Mobile Eye Tracking

- ➔ Fully mobile
- ➔ Indoor and outdoor
- ➔ Up to 200 Hz
- ➔ Automated Scene Video Analysis
- ➔ Immediate Results



The Solution

The iView X™ HED is the latest generation mobile eye tracking system which combines full freedom of movement with easy setup and efficient operation:

- Fully mobile – Tablet PC, lightweight headset, perfect for indoor & outdoor applications
- High speed – Up to 200Hz eye tracking for fast eye movements
- Fast & easy – Prepare for measurement in minutes, fully automatic tracking, instant results
- Robust & reliable – Works with most glasses and contacts and under various lighting conditions
- Customizable – Can be mounted on a bike helmet, baseball cap, flight helmet, or pilot headphones
- Mobility Package – Unlimited working range with additional batteries and external charger
- BeGaze2 Video - Scene video analysis software
- Headtracking Package – Quantitative recording of 3D gaze vector in complex environments



The Results

The iView X™ HED records all relevant eye movement data and allows fast and accurate control and analysis:

- Scene video recording in broadcast quality for seamless integration with video analysis packages
- Data and message recording including pupil size, user messages from auxiliary devices
- User configurable video overlays including gaze cursor, time stamps, trial information, logo etc.
- Scene video streaming via network (fixed or wireless) to remote control application

Specifications iView X HED

Technology

- Non-invasive, video-based eye tracking
- Monocular, pupil-CR, dark-pupil tracking

Performance

- Sampling rate eye movements 50Hz (default)
200Hz (optional)
- Tracking resolution <0.1° (typ.)
- Gaze position accuracy <0.5°-1° (typ.)

System

- Workstation Subnotebook or laptop

Headset

- Lightweight, comfortable, quick & easy to adjust
- Bike helmet, baseball cap, headphones, flight helmet and headband mount available
- Interface weight 79g
- Cable length 5m and 2m (set of cables)

Auxiliary devices / communication

- Digital scene video recording in broadcast quality (720 x 576, MPEG-4)
- Audio channel recording
- Socket based API interface via Ethernet (UDP)
- Compatible with SMI BeGaze™ Analysis Software
- Compatible with 3rd-party video analysis packages (e.g. The Observer™ from Noldus)

Software options

- SMI BeGaze™ Video for HED

System options

- High-speed eye tracking option (200Hz)
- 6D head tracking option for numerical recording of gaze position in complex environments (e.g. simulators, CAVE)
- Flightcase

Norm compliance

- CE, EMC, Eye Safety

SensoMotoric Instruments GmbH
Warthestr. 21
14513 Teltow
Germany
Phone: +49 (0) 3328 - 39 55 - 10
Fax: +49 (0) 3328 - 39 55 - 99

SensoMotoric Instruments, Inc.
28 Atlantic Ave
236 Lewis Wharf
Boston, MA 02110 USA
Phone: +1 - 617 - 557 - 00 10
Fax: +1 - 617 - 507 - 83 19



www.smivision.com