

# tobii pro/glasses 2



The world's most innovative  
wearable eye tracking system  
for real-world research.

Envision human behavior

# Tobii Pro Glasses 2

Wearable eye tracker designed to capture natural viewing behavior in any real-world environment while ensuring outstanding eye tracking robustness and accuracy. Possible to combine with biometric devices for even deeper insights into human behavior.

Pro Glasses 2 shows exactly what a person is looking at in real time while moving around in any real-world environment, giving researchers deep and objective insights into human behavior. Data is captured at 50 or 100Hz. Complete unobtrusiveness and Tobii's proprietary 3D eye model technology combine to ensure researchers capture the most natural viewing behavior and supreme data quality. Quick calibration and system-guided procedures reduce time in the field and make it easy for anyone to start using the system with very little training.

Along with the standard Pro Glasses 2 we offer different hardware modifications for specific use cases. Inheriting all the functionality of Pro Glasses 2, the Helmet and Integration editions provide more flexibility and allow eye tracking to be used with head protection systems in aviation, construction sites, and sports. The Medical edition enables eye tracking research, diagnosis and training applications in clinical settings.

## Gaze Data Collection

The Tobii Pro Glasses 2 head unit films what the participant sees and records the ambient sound. The pocket-sized recording unit saves the gaze data onto an SD card.



## Live View Recording

The Tobii Pro Glasses Controller software lets you run and control studies in the field, and view live test sessions with gaze data on any Windows tablet or computer.



## True view

The Pro Glasses 2 system provides, what we call, a "true view" of what users see. A unique set of features, including four eye cameras, a wide-angle HD scene camera, and thin side pieces for a completely unobstructed side view, capture wide-angle views and ensure natural viewing behavior, including peripheral viewing.

## Supreme data quality

Robust tracking of all eye types, persistent calibration, and minimum data loss during extreme eye movements allow you to track a wide cross-section of the population and ensure supreme data quality. Slippage compensation, combined with a sampling rate of 50 or 100 Hz, enables collecting more data with even higher validity.

## Sync with physiological data

The system's recording unit allows for synchronization with a broad spectrum of physiological data, including EEG, NIRS, skin conductance, motion detection, respiration rate, and heart rate. Pro Glasses 2 provides the highest level of sync with very low latency and the ability to use a hardware sync without having to carry a laptop with you.



Get objective and powerful insights into how consumers respond to brand messaging, packaging, and store environments.



Improve professional training, identify best skills practices, and optimize processes and factors influencing performance in the workplace.



## Analysis and Visualizations

The Tobii Pro Lab software provides the tools for comprehensive post-analysis and visualization of the data.



### Live view. Instant insights.

Live view allows you to see exactly what a person is looking at, wirelessly and in real time, and therefore gain immediate and actionable insights. It's easy to use and affordable, yet it's a very valuable research tool – ideal for many types of studies.

### Automated Real-World Mapping

The Real-World Mapping tool available in Pro Lab, streamlines the coding process and dramatically reduces the analysis time. It aggregates and maps data from eye tracking videos to snapshots, allowing immediate visualization of the quantified data or the extraction of statistics.

### Analysis and visualization

Powerful post-analysis and visualization tools provide a full spectrum of qualitative and quantitative gaze data analysis and visualizations. You can easily log events, define areas of interest, calculate statistics, create heat maps, and export data for further analysis in other software



Capture natural human behavior to evaluate interfaces, physical products, or environments, for optimal user experience.



Learn what physiological responses are triggered by visual stimuli by combining Pro Glasses 2 with other biometric data streams

## Technical Specifications

### Eye tracking

Gaze sampling frequency	50 or 100 Hz
Calibration procedure	One point
Calibration validation	Yes
Parallax compensation	Automatic
Slippage compensation	Yes, 3D eye model
Tracking technique	Corneal reflection, binocular, dark pupil tracking
Pupil measurement	Yes, absolute measure

### Head unit

Number of eye cameras	4 eye cameras
Sensors	Gyroscope and accelerometer
Scene camera format and resolution	H.264 1920 x 1080 pixels @25 fps
Scene camera field of view	90° 16:9
Scene camera recording angle/ visual angle	82° horizontal 52° vertical
Sound recording/microphone	Yes
Frame dimensions	179 x 159 x 57 mm (7.0 x 6.3 x 2.2")
Weight	45 g (1.6 oz), incl. protective lens

### Recording unit

Battery recording time	120 min
Storage media	SD card (SDXC)
Connectors	HDMI, Micro USB, 3.5 mm jack
Wireless	2.4 GHz and 5 GHz band
Dimensions	130 x 85 x 27 mm (5.1 x 3.3 x 0.9")
Weight	312 g (11.0 oz), incl. battery

### Accessories

Prescription lenses	Range from -5 to +3 diopter, 0.5 diopter steps
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### Tobii Pro Glasses Controller

Features	<ul style="list-style-type: none"><li>• Replay recordings</li><li>• Calibration</li><li>• Eye images video</li><li>• Participant management</li><li>• Recordings management</li><li>• Study management</li><li>• Live view</li><li>• Video export</li><li>• Event logging</li><li>• Gaze based exposure</li><li>• Switch between 50 and 100 Hz</li></ul>
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### Tobii Pro Lab

Features	<ul style="list-style-type: none"><li>• Replay recordings</li><li>• Event logging</li><li>• Real-World Mapping</li><li>• Visualization tool</li><li>• Metrics and data export</li><li>• Import &amp; export projects</li><li>• AOIs with Tagging and Grouping (Static and dynamic)</li><li>• Participant variables</li></ul>
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### Tobii Pro Glasses 2 Application Programming Interface (API)

Overview	Gives you access to the live stream data and stored recordings, giving developers the flexibility to build their own customized applications for their specific use cases. The platform is available for free, is not language dependent, and comes with a developer's guide and code samples.
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## Services

**Tobii Pro Insight** – Our eye tracking research consultancy, Tobii Pro Insight, can be your research partner with the tools and expertise to help you execute your study. We save you the time and expense of developing your own in-house capabilities. Contact our consultants at [insight@tobii.com](mailto:insight@tobii.com) or visit [tobiipro.com/insight](http://tobiipro.com/insight) for further details.

**Onsite Installation and Initial Training** – our team will provide a one-day training that includes the onsite installation of your eye tracker and software. You and your team will gain a basic understanding of operating the system.

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Tobii Pro provides eye tracking research solutions and services designed to deepen understanding of human behavior. Headquartered in Sweden, with local teams active on six continents, we help business and science professionals to further their research.

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