Designed for the real world, our third-generation wearable eye tracking solution allows you to conduct behavioral research in a wide range of settings. Tobii Pro Glasses 3 delivers accurate and robust gaze data while giving users the freedom to move and interact naturally.

What you get with Tobii Pro Glasses 3

**High-quality eye tracking**
Pro Glasses 3 delivers comprehensive and reliable eye tracking data through a number of innovations.

- The system, with a wide-angle scene camera, covers a larger portion of the wearer’s field of view which, delivers more comprehensive gaze data.

- The integration of eye tracking technology into the lenses allows for optimal positioning of the eye cameras and illuminators and removes obstruction to the wearer’s line of sight.

- Tobii’s patented 3D eye model combined with two eye cameras per eye delivers very accurate gaze data with minimal data loss and robust pupil size estimation.

- Slippage compensation technology and persistent calibration enable robust and consistent eye tracking data throughout recordings, even if the glasses move on the participant's head, or are taken off and on.

**Successful tracking of most people**
Like all our eye trackers, Pro Glasses 3 can be successfully used on a very large proportion of the population regardless of their eye color or shape. This is also supported by a range of product accessories.

- Three interchangeable nose pads which ensure optimal fit for different wearers.

- Snap-on corrective lenses to cater for people with vision impairment.

**Ability to withstand the elements**
Pro Glasses 3 can withstand a range of environmental conditions thanks to optional add-ons and smart design.

- Add-on protective lenses (clear and tinted) that support research in bright environments and locations requiring protection for the Pro Glasses 3. The tinted version is IR blocking.

- A lightweight and robust design ensures the eye tracker can be worn easily under helmets and other protective gear.

**Synchronization options**
Get more from your research by combining eye tracking data from Pro Glasses 3 with other biometric measurements.

- Accurately sync eye tracking data with EEG, NIRS, GSR, motion capture systems, respiration rate, and heart rate monitors.

- Utilize a range of online and offline synchronization methods, like TTL, TCP/IP, and NTP while maintaining the highest level of sync with very low latency.

**Software to support your work from beginning to end**
We have a complete solution for your eye tracking research workflow. Start/stop recordings and view them live on your mobile or other device via our app, and then easily import them into our software for analysis.

- The Glasses 3 controller app works on Mac, Android, and Windows and allows you to wirelessly view eye tracking recordings in real time.

- Recorded data can be easily exported into Tobii Pro Lab for deeper analysis. This software includes tools for assisted mapping of data to snapshots, visualizations, and extracting statistics.

- The Tobii Pro Glasses 3 API allows you to build custom solutions and integrations. All data is accessible live through the API, which uses standard protocols to make it easy to consume, for example, with video stream available over web RTC and RTSP.
## Technical specifications

### Eye tracking
- **Eye tracking technique**: Corneal reflection, dark pupil, stereo geometry
- **Binocular eye tracking**: Yes
- **Sampling rate**: 50 Hz or 100 Hz
- **Calibration procedure**: One point
- **Parallax compensation tool**: Automatic
- **Slippage compensation**: Yes, 3D eye tracking mode
- **Pupil measurement**: Yes, absolute measure

### Head unit
- **Material**: Stainless steel, optical grade plastic
- **Nose pad**: Grilamid plastic, with clip on attachments
- **Scene camera, video resolution**: 1920 × 1080 at 25 fps
- **Scene camera, video format**: H.264
- **Scene camera, field of view (diagonal)**: 106 deg. 16:9 format
- **Scene camera, field of view (horizontal and vertical)**: 95 deg. horizontal / 63 deg. vertical
- **Weight**: 76.5 grams including cable
- **Frame dimensions (width x depth x height)**: 153 × 168 × 51 mm
- **Cable length**: 1200 mm
- **Audio**: 16 bit mono, integrated microphone
- **Design characteristics**: Light weight and discreet
- **Number of eye tracking sensors**: 4 sensors (2 per eye)
- **Fixed geometry**: Yes
- **Sensors**: Gyroscope, Accelerometer, Magnetometer: ST™ LSM9DS1 (sampled at 100 Hz)

### Recording unit
- **Battery recording time**: 105 min.
- **Battery type**: Rechargeable 18650 Li-ion, Capacity: 3 400 mAh
- **Storage media**: SD (SDXC, SDHC) card
- **Connectors**: Micro USB, RJ45 (Ethernet), 3.5 mm jack (sync port), head unit connector
- **Dimensions (height x width x depth)**: 130 × 85 × 27 mm
- **Weight**: 312 grams
- **Sync Port**: 3.5 mm jack (TTL signal)

### Accessories
- **Corrective lenses**
- **Clear protective lenses**
- **Tinted protective lenses with IR blocking**
- **Corrective lenses (optional)**: 32 pieces, ranging from −5.0 dpt. to +3.0 dpt. in increments of 0.5 dpt. Made of optical-grade plastic with hard coating.
- **Dimensions (height x width x depth)**: 80 × 270 × 370 mm (complete kit)
- **Weight**: 1150 grams (complete kit)

### Glasses 3 controller system requirements
- **Operating System**:
  - Windows 10 64-bit Professional or Enterprise, version 2004
  - Android OS version 9 or later
  - Mac OS 11 (Big Sur)
- **CPU**: Intel® Core™ i5 quad core, 6th generation or better
  - Snapdragon 835 (8 cores, 2.0GHz) or equivalent
  - Intel Core i-series
- **RAM**: 8 GB
  - 6 GB
  - 8 GB

### Analysis software
- **Tobii Pro Lab®**
- **Tobii Pro Glasses 3 API**
- **Any application built on Pro Glasses 3 API**

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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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