

Tobii Pro Glasses 3



Tobii Pro Glasses 3 takes consumer and scientific research out of restricted settings and into the real world, freeing participants to act naturally. The glasses record a detailed first-person perspective, so you can stand back while observing on a screen in real-time and collecting quality data.

Limitless possibilities

Tobii Pro Glasses 3 work as well in a car as a classroom, collecting first-hand attention data in any environment. It's the wearable eye tracker of choice for thousands of scientific researchers, marketers, UX designers, and manufacturers across the world.



Scientific research

Gain a deeper understanding of human behavior in psychology, engineering, education, and more.



User and consumer research

Attention data lets you see through the eyes of customers to enhance experiences, optimize products, and sharpen advertising.



Human factors and sports performance

Analyze behavior in high-stakes environments to improve design, safety, and performance.

- Optional lens accessories for sun and dust protection, eyesight correction, and reflective markers for motion capture compatibility.
- Reliable eye tracking across the population regardless of eye color or shape.
- Slippage compensation and persistent calibration for consistently strong data.
- Patented 3D eye model and two cameras per eye ensures accurate gaze data.
- Accelerometer, gyroscope, and magnetometer differentiate head and eye movements.

Visualization and analysis

View and analyze the data in our easy-to-use software:

- Controller app that runs on Android, Windows, and macOS in English, Chinese, and Japanese.
- Observe behavior in real-time with gaze visualizations.
- Automatic video documentation of user sessions and interviews.
- Mark events during observation to save time during interview and analysis.
- Export video in full or in snippets.

Synchronization with other tech

Combine eye tracking data from Tobii Pro Glasses 3 with other biometric measurements like EEG, NIRS, GSR, motion capture systems, respiration rate, and heart rate monitors.

Technology you can trust

Tobii Pro Glasses 3 delivers comprehensive and reliable eye tracking data in a number of ways:

- 16 illuminators and four eye cameras integrated into scratch-resistant lenses.
- Scene camera with a 106° field of view.
- Built-in microphone captures environmental sound for more context.
- Robust design that fits under headwear and protective gear.

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Technical specifications

Eye tracking specifications

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
Accuracy	0.6°

Head unit

Material	Grilamid plastic, stainless steel, optical-grade plastic lenses
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 × depth × height)	153 × 168 × 51 mm
Cable length	1200 mm
Audio	16-bit mono, integrated microphone
Design characteristics	Lightweight and discreet
Number of eye tracking sensors	4 sensors (2 per eye)
Fixed geometry	Yes
Sensors	ST™ LSM9DS1 sensors: Gyroscope and Accelerometer (sampled at 100 Hz); Magnetometer: (sampled at 10 Hz)
Input voltage and current rating	5.5Vdc max, 0.5A

Recording unit

Battery recovery time	105 min.
Battery type	Rechargeable 18650 Li-ion, Capacity: 3400 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 x 85 x 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
Motion Capture Marker Set

Corrective Lenses*

Corrective Lenses	44 pieces, ranging from -8.0 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 x 270 x 370 mm (complete kit)
Weight	1250 grams (complete kit)

Tobii Pro Glasses 3 controller app — system requirements

Operating System	Windows 10 or 11	Android OS version 11 or 12	macOS 11 (Big Sur)
CPU	6th Generation Intel® Core™ i5 (Dual core) or equivalent	Snapdragon 835 or equivalent	6th Generation Intel® Core™ i5 (Dual core) or equivalent
RAM	8 GB	4 GB	8 GB

Related software

Tobii Pro Lab (for quantitative analysis)

Tobii Pro Glasses 3 API (for integrated solutions)



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