Pro Glasses 3 Product Description

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1 Introduction

Tobii Pro Glasses 3 is designed to enable easy, precise, and efficient collection of eye tracking data in a wide variety of research scenarios. The discreet, ultra-lightweight design ensures natural behavior and research validity in both qualitative and quantitative situations. Accurate data and robust eye tracking capabilities can be relied on in uncontrolled situations and real-world environments.

1.1 Intended use

Tobii Pro Glasses 3 is a wearable eye tracker for academic, commercial, and industrial use for the capture of truly objective and deep insights into human behavior in a real-world environment. Pro Glasses 3 is designed to capture what the wearer is viewing while providing robust and accurate eye-tracking data. The complete Pro Glasses 3 product package consists of a head unit, a recording unit, and the Tobii Pro Glasses 3 controller application installed on an external device.

The product should only be used as described in the Pro Glasses 3 User Manual. Please read the User Manual and other supplied documentation thoroughly before using the product.

This product is continuously being developed and refined. Visit Tobii Pro Connect for the most recent specifications for the application and for the latest version of this document.

1.2 Documentation

Further documentation is available for viewing and download at Tobii Pro Connect.

- Pro Glasses 3 Product Description
- Pro Glasses 3 Quick Start Guide
1.3  Symbols used in this document

Three different symbols are used in this document:

- The Information symbol means something is important or needs special attention.

- The Tip symbol denotes additional information that can make a process or function easier.

- The Warning symbol means there is a possible risk of harm if the warning is ignored.
2 System Overview

2.1 Pro Glasses 3 packages

Pro Glasses 3 is sold in four different packages. The table below details the specific features available in each package.

<table>
<thead>
<tr>
<th>Components</th>
<th>View Package 50</th>
<th>Live View Package 100</th>
<th>Live View Wireless Package 50</th>
<th>Live View Wireless Package 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pro Glasses 3 controller application</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>50 Hz</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 Hz</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>WLAN functionality</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Basic support</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

2.2 Optional accessories

The following optional components can be added to the Pro Glasses 3 system. Learn more on tobiipro.com.

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrective Lenses</td>
<td>Snap-on corrective lenses for Tobii Pro Glasses 3 used with people who wear prescription lenses. The Corrective Lenses accessory for Pro Glasses 3 is a set of attachable lenses to correct both nearsightedness and farsightedness. This accessory allows you to include a larger cross-section of the population in your research.</td>
</tr>
<tr>
<td>IR Blocking Safety Lenses</td>
<td>This accessory package contains two lenses (clear and tinted) that are compliant with safety glass standards to support research in bright environments and locations requiring eye protection.</td>
</tr>
</tbody>
</table>

2.3 System components

The Pro Glasses 3 system comprises the head unit, recording unit, and the Pro Glasses 3 controller application installed on either a computer running Windows 10 or later, or on an Android device running version 9 or later. Each component is briefly described below. In addition, Tobii Pro Lab software can be used for further analysis of eye tracking data.
The system:

1. The head unit, comprised of wearable eye tracking glasses.
2. A recording unit, connected to the head unit via a head unit cable. The recording unit holds the battery and stores the recorded data on a SD card. The recording unit is controlled from a device running Pro Glasses 3 controller application.
3. Pro Glasses 3 controller application is used to manage the participants, start and stop recordings, and to view real time and recorded video and eye-tracking data.

   Pro Glasses 3 controller application is designed to be installed and used on a computer running Windows 10 or later or an Android device running version 9 or later. The application should not be installed on any other type of devices.

4. Either a computer running Windows 10 or later, or an Android device running version 9 or later with Pro Glasses 3 controller application installed. Pro Glasses 3 controller application connects to the eye tracker through an network connection (either wireless or wired).

5. Tobii Pro Lab (purchased separately) installed on a Windows computer. Any eye-tracking analysis beyond qualitative analysis of eye-tracking session replay, is carried out using Tobii Pro Lab.

   The Pro Glasses 3 controller application is designed to be used only with Pro Glasses 3. No other types of eye trackers can or should be used together with the Pro Glasses 3 controller application.

2.4 Head unit

The head unit is a highly sophisticated measuring device. It consists of several very sensitive sensors and must be cared for correctly. For more information, read Product Care.
The head unit consists of the following parts:

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Infrared illuminators (x 8 per eye)</td>
<td>Illuminates the eyes to assist the eye-tracking sensors</td>
</tr>
<tr>
<td>2. Head unit cable</td>
<td>Connects to the recording unit to save collected data</td>
</tr>
<tr>
<td>3. High-definition scene camera</td>
<td>Captures a Full HD video of what is in front of the participant</td>
</tr>
<tr>
<td>4. Microphone</td>
<td>Picks up sounds from the participant and their immediate surroundings</td>
</tr>
<tr>
<td>5. Eye-tracking cameras (x 2 per eye)</td>
<td>Records eye orientation and movements</td>
</tr>
<tr>
<td>6. Accessory mounting holes</td>
<td>Used to attach some of the optional accessories, for example the IR Blocking Safety Lens</td>
</tr>
<tr>
<td>7. Nose pad</td>
<td>Additional nose pads can be used to change sizing</td>
</tr>
</tbody>
</table>
2.5 Recording unit

The recording unit is a small computer that controls the head unit. It records and stores eye-tracking data, sounds, and scene camera video on a removable SD card. The recording unit carries a replaceable and rechargeable Li-ion battery that supplies power to both the recording unit and the head unit. The recording unit has several connectors and a power button and is controlled from Pro Glasses 3 controller application.

The recording unit consists of the following parts:

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Head unit connector</td>
<td>Connects to the head unit cable</td>
</tr>
<tr>
<td>2. Micro USB connector</td>
<td>Connects to USB charger for powering the unit and charging the battery</td>
</tr>
<tr>
<td>3. 3.5 mm connector for data synchronization</td>
<td>TTL pulse for synchronization with external data sources</td>
</tr>
<tr>
<td>4. Power button and LED power indicator</td>
<td>Touch button that turns the recording unit on and off. LED power indicator indicates power state and remaining battery power</td>
</tr>
<tr>
<td>5. SD card Activity LED</td>
<td>Indicates if SD card is present and if the recording unit is currently saving data to the SD card</td>
</tr>
<tr>
<td>6. Connection status LED</td>
<td>Indicates connection to the head unit.</td>
</tr>
</tbody>
</table>
7. LAN port | Connects to a device running the Pro Glasses 3 controller application, via the supplied Ethernet cable. The recording unit can also be connected to a device via WLAN*.
---|---
8. SD card slot | Slot for SD card
9. Belt clip | Attaches the recording unit to participant’s belt
10. Battery compartment | Holds the Li-ion battery

* Not available in the Tobii Pro Glasses 3 Live View Package

The Pro Glasses 3 package contains an external SD card reader for use with computers that are not equipped with an internal SD card reader. For installation instructions, see the documentation in the SD card reader’s package or the manufacturer’s website.

1. **2.6 Pro Glasses 3 controller application**

   The Pro Glasses 3 controller application software is used to manage participants and recordings made using the recording unit. It can perform the following functions:
   - Add participants
   - Manage recordings
   - Live view of ongoing recordings
   - Instant replay of recordings
   - One point calibration
   - Configure WLAN settings and connect to existing networks
3 Technical Specifications

3.1 Eye tracking

<table>
<thead>
<tr>
<th>Eye tracking technique</th>
<th>Corneal reflection, dark pupil, stereo geometry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binocular eye tracking</td>
<td>Yes</td>
</tr>
<tr>
<td>Sampling rate</td>
<td>50 Hz or 100 Hz</td>
</tr>
<tr>
<td>Calibration procedure</td>
<td>One point</td>
</tr>
<tr>
<td>Parallax compensation tool</td>
<td>Automatic</td>
</tr>
<tr>
<td>Slippage compensation</td>
<td>Yes, 3D eye tracking model</td>
</tr>
<tr>
<td>Pupil measurement</td>
<td>Yes, absolute measure</td>
</tr>
<tr>
<td>Gaze recovery time</td>
<td>1 frame (immediate)</td>
</tr>
<tr>
<td>Blink recovery time</td>
<td>1 frame (immediate)</td>
</tr>
</tbody>
</table>

3.2 Head unit

<table>
<thead>
<tr>
<th>Material</th>
<th>Grilamid plastic, stainless steel, optical grade plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nose pad</td>
<td>Grilamid plastic, with clip on attachments</td>
</tr>
<tr>
<td>Scene camera, video resolution</td>
<td>1920 × 1080 at 25 fps</td>
</tr>
<tr>
<td>Scene camera, video format</td>
<td>H.264</td>
</tr>
<tr>
<td>Scene camera, field of view (diagonal)</td>
<td>106 deg. 16:9 format</td>
</tr>
<tr>
<td>Scene camera, field of view (horizontal and vertical)</td>
<td>95 deg. horizontal / 63 deg. vertical</td>
</tr>
<tr>
<td>Weight</td>
<td>76.5 grams including cable</td>
</tr>
<tr>
<td>Frame dimensions (width × depth × height)</td>
<td>153 × 168 × 51 mm</td>
</tr>
<tr>
<td>Cable length</td>
<td>1200 mm</td>
</tr>
<tr>
<td>Audio</td>
<td>16 bit mono, integrated microphone</td>
</tr>
<tr>
<td>Design characteristics</td>
<td>Light weight and discreet</td>
</tr>
<tr>
<td>Number of eye tracking sensors</td>
<td>4 sensors (2 per eye)</td>
</tr>
<tr>
<td>Fixed geometry</td>
<td>Yes</td>
</tr>
<tr>
<td>Sensors</td>
<td>ST™ LSM9DS1 sensors: Gyroscope and Accelerometer (sampled at 100Hz); Magnetometer: (sampled at 10 Hz)</td>
</tr>
</tbody>
</table>

3.3 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 x 85 x 27 mm                                      |
### Pro Glasses 3 controller application system requirements

These are the minimum system requirements for the Pro Glasses 3 controller application:

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Windows 10 (32 bit and 64 bit)</th>
<th>Android 9 or later</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>6th Generation Intel® Core™ i5 (Dual core) or equivalent</td>
<td>Snapdragon 835 or equivalent</td>
</tr>
<tr>
<td>Memory</td>
<td>8 GB RAM</td>
<td>6 GB RAM</td>
</tr>
</tbody>
</table>

### Compatible Android devices

There is a very wide range of Android devices available on the market, each with their own unique combination of hardware specifications. While most devices that fulfill the minimum system requirements should be able to run the Glasses 3 controller application, Tobii Pro cannot guarantee they will do so. The following list shows the devices which have been tested and are confirmed to work with the Glasses 3 controller application.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samsung</td>
<td>GalaxyTabS5e</td>
</tr>
<tr>
<td>Samsung</td>
<td>GalaxyS10</td>
</tr>
<tr>
<td>Google</td>
<td>Pixel4XL</td>
</tr>
</tbody>
</table>
4 Safety

4.1 General precautions

The Pro Glasses 3 system is described in the Pro Glasses 3 User Manual and must be used according to the manufacturer’s instructions. Connecting any other component to the system, or using the components improperly can cause injury to the user or damage to the equipment and is done so entirely at the user’s own risk.

The Pro Glasses 3 system must be fitted on the test participant according to instructions in the Pro Glasses 3 User Manual. Tobii Pro or its agents are not liable for damage or injuries to a person or their property due to a Pro Glasses 3 eye tracker system in any configuration being dropped. Fitting the Pro Glasses 3 onto a test participant is done entirely at the user’s own risk.

The Pro Glasses 3 system is to be used for research purposes only. Be aware that due to the low, but possible risk of failure or distraction, the Pro Glasses 3 should not be relied upon or used in dangerous or otherwise critical situations.

Tobii Pro Glasses 3 head unit is equipped with a head strap to enable tighter mounting of the eye tracker onto the wearer’s head. Neither Tobii Pro nor its agents are liable for damages or injuries to a person or their property caused by the Pro Glasses 3 head unit head strap.

4.2 Usage warning

The Pro Glasses 3 system is composed of several components as described in the User’s Manual and should be used according to manufacturer instructions. Connecting, or by other means using any other component than advised in the User’s Manual may damage or injure a person, their property or recorded data, and is done entirely at the user’s own risk.

Pro Glasses 3 eye tracker should be fitted on the test participant according to manufacturer instructions. Tobii Pro or its agents are not liable for damage or injuries to a person or their property due to a Pro Glasses 3 eye tracker being dropped in any configuration. Fitting the Pro Glasses 3 onto a test participant is done entirely at the user’s own risk.

Pro Glasses 3 head unit is equipped with a head strap to enable tighter mounting of the eye tracker onto the wearer’s head. Neither Tobii Pro nor its agents are liable for damages or injuries to a person or their property caused by the Pro Glasses 3 head unit head strap.
4.3 Emergency

The Pro Glasses 3 system is to be used for research purposes only. Be aware that due to the low, but possible risk of failure or distraction, the Pro Glasses 3 should not be relied upon or used in dangerous or otherwise critical situations.

4.4 Child warning

The Pro Glasses 3 is an advanced computer system and electronic device that is composed of numerous separate, assembled parts. These parts have the possibility of becoming separated from the device, constituting a potential choking hazard or other danger to a child. Young children should not have access to, or use, the device without parental or guardian supervision.

4.5 Infrared warning

Do not use the Pro Glasses 3 system when in the vicinity of devices that are susceptible to Infrared (IR) light. When activated, the Pro Glasses 3 head unit emits IR light, which can affect certain medical devices and other devices that are susceptible to disturbance by IR light and/or radiation.

4.6 Photosensitivity/epilepsy warning

Some people with photosensitive epilepsy are susceptible to epileptic seizures or loss of consciousness when exposed to certain flashing lights or light patterns in everyday life. This may happen even if the person has no medical history of epilepsy or has never had any epileptic seizures.

A person with photosensitive epilepsy would also be likely to have problems with TV screens, some arcade games, and flickering fluorescent bulbs. These people may have a seizure while watching certain images or patterns on a monitor, or even when exposed to the light sources of an eye tracker. It is estimated that about 3-5% of people with epilepsy have this type of photosensitive epilepsy. Many people with photosensitive epilepsy experience an "aura" or feel odd sensations before the seizure occurs. If the participant starts to feel odd during use, have them remove the Pro Glasses 3 head unit immediately.

4.7 Mechanical shock

The Pro Glasses 3 system is a delicate measuring instrument used for research purposes and should be treated with care at all times. To avoid breaking or damaging the internal electronic circuits, do not drop, knock, or shake the device. Eye-tracking quality or accuracy can be seriously affected if the Pro Glasses 3 head unit or recording unit are dropped. If the eye tracker is exposed to mechanical shock, for example, when dropped,
do not try to start it or connect it to a power source. Contact Tobii Pro Support for instructions.

4.8 Bending

⚠️ To avoid breaking or damaging the internal electronic circuits, do not bend any part of the eye-tracking system. Eye-tracking quality or accuracy can be seriously affected if the Pro Glasses 3 head unit or recording unit has been bent.

4.9 Do not open or disassemble

⚠️ Do not open or disassemble the Pro Glasses 3 head unit or the recording unit. Non-compliance will result in loss of warranty! There are no user serviceable components inside. Contact Tobii Pro Technical Support if your Pro Glasses 3 system is not working properly.

4.10 Connectors

⚠️ The Pro Glasses 3 head unit and recording unit have numerous external interfaces (connectors). Connecting any other device or connector than those intended may cause personal injuries and/or damage the Pro Glasses. Tobii Pro or its agents are not liable for any damages or injuries to a person or their property due to connecting unintended connectors.

4.11 Head unit cable

⚠️ The head unit cable connected to the head unit must only be used to connect to the recording unit. Do not use the head unit cable for any other purpose or for connecting to any other devices. Tobii Pro or its agents are not liable for any damages or injuries to a person or property due to incorrect use of the head unit cable.

4.12 Environment

⚠️ Avoid any exposure to direct sunlight as this will affect eye tracking quality and longer exposure can overheat the equipment. Avoid prolonged exposure to any liquids, gels, moist, rain, or sweat. Do not use the eye tracker underwater.

⚠️ Do not place or use the equipment in places subject to extreme temperatures and humidity, such as on top of and or near a heating element, in a hot or damp room, or in a hot automobile in the sun. Usage temperature: 5°C to +45°C / 23°F to 113°F
4.13 Component connection safety

⚠️ The Tobii Pro Glasses 3 head unit is designed to connect only to the Tobii Pro Glasses 3 recording unit and should not be connected to any other device.

⚠️ The recording unit is designed to connect only to the head unit and a device running Windows 10 or later operating system, or an Android device with version 9 or later, and with the Glasses 3 controller application installed. The recording unit should not be connected to any other devices.

4.14 Battery safety

Caution!

⚠️ There is a risk of explosion if the battery is replaced by an incorrect type.

⚠️ Replacement of a battery with an incorrect type can defeat safeguards (for example, in the case of some lithium battery types).

⚠️ Disposal of a battery in a fire or a hot oven, or mechanically crushing or cutting of a battery can result in an explosion.

⚠️ Batteries exposed to extremely high temperatures or environments can result in an explosion or leakage of flammable liquid or gas.

⚠️ Batteries subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.

Attention!

⚠️ Risque d'explosion en cas de remplacement de la pile par une pile de type incorrect.

⚠️ Le remplacement d'une PILE par une pile de type incorrect peut neutraliser un SYSTÈME DE SÉCURITÉ (par exemple dans le cas de certains types de PILES au lithium).

⚠️ La mise au rebut d'une PILE dans le feu ou dans un four chaud, ou par écrasement ou découpe, peut entraîner une EXPLOSION.

⚠️ L'exposition d'une PILE à un environnement présentant une température extrêmement élevée peut entraîner une EXPLOSION ou une fuite de liquide ou de gaz inflammable.

⚠️ L'exposition d'une PILE à une pression d'air extrêmement faible peut entraîner une EXPLOSION ou une fuite de liquide ou de gaz inflammable.
4.15 Wireless warning

⚠️ The recording unit contains radio transmitters and receivers (WLAN). Make sure that it is placed as far as possible from any equipment, objects or body parts sensitive to such signals.

電波法により5GHz帯は屋内使用に限ります。

4.16 Transportation

Use the provided case when traveling with the eye tracker. For shipping and storage, use the original packing. For transportation, the recommended range for temperature and humidity for the device is as follows:

- **Temperature**: -40°C to 65°C (-40°F to 149°F)
- **Humidity**: 5% to 95%

ETSII 300 019-2-2 V2.4.1, T2.3 (Public transportation) with exception of high air temperature at +65°C.

4.17 Accessories

⚠️ Only use accessories provided by or approved by Tobii Pro.

4.18 Cleaning

⚠️ Avoid touching, scratching, or smudging the lenses on the Pro Glasses 3 head unit or the Corrective Lenses (optional accessory) and keep all the surfaces clean. Eye tracking quality may be degraded if surfaces are dusty or damaged. Take special care to ensure that there are not smudges or scratches covering either the illuminators or sensors in the lenses as these can impair performance.

⚠️ Do not use window cleaners, household cleaners, aerosol sprays, solvents, alcohol, ammonia, or abrasives on any component of the Pro Glasses 3 system.

⚠️ Before cleaning Pro Glasses 3, unplug the head unit cable.

⚠️ Use the included cleaning cloth and clean the Pro Glasses 3 lenses gently.

⚠️ Avoid getting moisture in openings and ports on the device.
4.19 California Proposition 65 warnings

**WARNING:** The batteries in this product can expose you to chemicals including Carbon-Black Extracts and Nickel (Metallic), which is known to the State of California to cause cancer. For more information, visit [P65Warnings.ca.gov](http://P65Warnings.ca.gov).

**WARNING:** The Tobii Pro Recording Unit in this product can expose you to chemicals including Carbon-Black Extracts and Nickel (Metallic), which is known to the State of California to cause cancer. For more information, visit [P65Warnings.ca.gov](http://P65Warnings.ca.gov).

**WARNING:** The USB-C to Gigabit Ethernet Adapter in this product can expose you to chemicals including Lead and Bisphenol A (BPA), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [P65Warnings.ca.gov](http://P65Warnings.ca.gov).

**WARNING:** The head strap in this product can expose you to Di(2-ethylhexyl)phthalate (DEHP) and Bisphenol A (BPA), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [P65Warnings.ca.gov](http://P65Warnings.ca.gov).

**WARNING:** The foam in the carrying bag in this product can expose you to Benzo[b]fluoranthene, Benzo[j]fluoranthene, Benzo[k]fluoranthene and Indeno[1,2,3-cd]pyrene, which is known to the State of California to cause cancer. For more information, visit [P65Warnings.ca.gov](http://P65Warnings.ca.gov).

**WARNING:** The AC/DC Adapter including the USB cable in this product can expose you to chemicals including Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information, visit [P65Warnings.ca.gov](http://P65Warnings.ca.gov).
5 Compliance

5.1 EU Compliance

5.1.1 Conformity with EU directives

Tobii Pro AB declares that this device is in compliance with the essential requirements of the following EU directives:

- 2014/35/EU Low Voltage Directive (LVD)
- 2014/30/EU Electromagnetic Compatibility (EMC) Directive
- 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive

5.1.2 CE marking

All Tobii Pro Glasses 3 are CE-marked, indicating compliance with the essential health and safety requirements set out in European Directives.

5.1.3 WEEE marking

Pro Glasses 3 is compliant with the Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/ EU

5.2 United States and Canada compliance

5.2.1 FCC interference and Industry Canada statement

Pro Glasses 3 recording unit has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Tobii Pro Glasses 3 can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If Tobii Pro Glasses 3 does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by increasing the separation between Tobii Pro Glasses 3 and the receiver. Modifications not expressly approved by Tobii Pro AB could void the user’s authority to operate the equipment under FCC rules.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
5.2.2 ETL compliance


The Pro Glasses 3 recording unit complies with UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07, certification number E180881.

5.2.3 UL compliance

The Pro Glasses 3 recording unit E180881 is compliant with UL 508A.

5.3 Electromagnetic compatibility compliance

Pro Glasses 3 complies with the following emission and immunity standards:

- FCC 47 CFR Part 15, Class B
- ICES-003 Issue 6, Class B
- EN 55032:2015, Class B
- EN 55035:2017
- CISPR 32:2015, Class B
- CISPR 35:2016

In addition to the above, the Pro Glasses 3 recording unit complies with the following emission and immunity standards:

- EN 61000-3-2:2014
- EN 61000-3-3:2013
- EN 61000-6-1:2007

5.4 Safety compliance

Pro Glasses 3 complies with the following safety standards:

- IEC/EN 62471:2008, Photobiological safety of lamps and lamp systems
- EN62311:2008, Specific Absorption Rate
  Pro Glasses 3 head unit complies with the following standards:
- IEC 62368-1:2014 2nd Ed, Audio/video, information and communication technology equipment Part 1: Safety requirements
  Pro Glasses 3 recording unit complies with the following standards:
5.5 China compliance
The Tobii Pro Glasses 3 recording unit and its operation comply with the following standards:
  - GB 4943.1-2011 (Chinese Standard)

5.6 Japan compliance
The Tobii Pro Glasses 3 recording unit and its operation comply with the following standards:
  - J60950-1(H22) (Japanese Standard)

The Pro Glasses 3 head unit complies with:
  - J62368-1(H30) and IEC 62368:2014 2nd Edition

![VCCI](VCCI.png) この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。 VCCI — B

The Pro Glasses 3 recording unit complies with:
  - Telefication, certification number 201-150060

5.7 Korea compliance
The KC (Korea Certification) mark signifies compliance with Korea’s product safety requirements for electrical and electronic equipment and is issued by Korea-based certification bodies that have been approved by the Korea Standards Association.
Appendix A  Support, Learning Center, and Warranty

A1  Customer Support
If you need help, please contact Customer Support at Tobii Pro. In order to receive assistance as quickly as possible, make sure you have access to your Tobii Pro device and, if possible, an Internet connection. You should also be able to supply the serial number of the device, which you will find on a sticker on the back or bottom of the device.

A1.1  Get help online
Many questions can be answered by visiting Tobii Pro Connect. It contains the latest information about contacting Support, links to our Learning Center, and much more. Log in or register to see information about your account and to reach Customer Support at Tobii Pro Connect.

A2  Learning Center
If you are new to eye tracking, or want to extend your knowledge about eye tracking research, sign up for one of our learning programs and events, or browse through our extensive article library in our Learning Center.
For further product information and other support resources, please visit tobiipro.com.

A3  Warranty information
Read more about Tobii Pro Care and Tobii Pro’s eye tracker warranty in the Tobii Pro Service Description.
Appendix B  Limitations and considerations

B1  Intended use

Tobii Pro eye trackers are intended to be used in research activities about human behavior including eye movements, in a dry and dust free indoor environment. The product should only be used as described in this User’s Manual. Please read the User Manual and other supplied documentation thoroughly before using the product.

B2  Light conditions

Tobii Pro recommends that eye tracking studies be performed in a controlled environment. Sunlight should be avoided since it contains high levels of infrared light which will interfere with the eye tracker system. Sunlight affects eye tracking performance severely and longer exposure can overheat the eye tracker. This eye tracker is not designed for exposure to (direct) sunlight. Eye tracking generally does not work in strong direct sunlight.

Shielding the eye tracker adequately from the sun may prevent sunlight from interfering with eye tracking.

B3  Eyelashes

Long eyelashes can be obstructive when the participant’s eyes are less open, especially if the participant is wearing mascara. In rare cases, eyelashes may completely block the view of the participant’s pupils, making eye tracking impossible.

B4  Droopy eyelids

Droopy eyelids or otherwise obstructive eyelids can block the view of the participant’s pupils. In rare cases, such eyelids may completely block the view of the participant’s pupils, making eye tracking impossible.
Support for Your Tobii Pro Device

Get Help Online
Visit Tobii Pro Connect for help with your Tobii Pro device. It contains the latest information about contacting Support, links to our Learning Center, and much more.
Visit connect.tobiipro.com

Contact Your Solution Consultant or Reseller
For questions or problems with your product, contact your Tobii Pro sales representative or authorized reseller for assistance. They are most familiar with your personal setup and can best help you with tips and product training.
Visit tobiipro.com/contact