

Tobii Pro Glasses Analyzer

Product Description

Product Description Tobii Pro Glasses Analyzer

Version 1.0.7

07/2016

All rights reserved.

Copyright © Tobii AB (publ)

The information contained in this document is proprietary to Tobii AB. Any reproduction in part or whole without prior written authorization by Tobii AB is prohibited.

Products that are referred to in this document may be either trademarks and/or registered trademarks of the respective owners. The publisher and the author make no claim to these trademarks.

While every precaution has been taken in the preparation of this document, the publisher and the author assume no responsibility for errors or omissions, or for damages resulting from the use of information contained in this document or from the use of programs and source code that may accompany it. In no event shall the publisher and the author be liable for any loss of profit or any other commercial damage caused or alleged to have been caused directly or indirectly by this document.

Content subject to change without notice.

Please check Tobii web site www.tobiipro.com for updated versions of this document.

Table of Contents

- 1 Introduction..... 1
 - 1.1 Overview.....1
 - 1.2 License Models.....1
- 2 Software Features..... 2
 - 2.1 Recording Replay.....2
 - 2.2 Mapping.....2
 - 2.3 Visualizations2
 - 2.4 Areas of Interest (AOIs).....2
 - 2.5 Data Export2
 - 2.6 Metrics Export.....4
- 3 Software System Requirements 6
 - 3.1 Minimum System Requirements6
 - 3.2 Recommended System Configuration.....6

1 Introduction

1.1 Overview

This document describes the features and functionality of the **Tobii Pro Glasses Analyzer**. Tobii Pro Glasses Analyzer is a powerful, flexible and comprehensive analysis software tool for Tobii Pro Glasses 2. The software comes in two different editions: **Full Edition** and **Coder Edition**.



This document applies to Tobii Pro Glasses Analyzer release 1.12. The software is continuously being developed and refined. Please visit www.tobii.com for the most recent specifications for the software and for the latest version of this document.

1.2 License Models

Tobii Pro Glasses Analyzer has two different license models; *perpetual* and *subscription*.

In order to run an automatic fixation mapping for long or many simultaneously recordings, Tobii offer the add-on Mapping Capacity. This is included in the subscription license model and can be ordered as an option for the perpetual license model. Please contact your sales representative for more information.



If using the subscription license model, in order to validate the license; Tobii Pro Glasses Analyzer requires an internet connection at least once every fourteen days. Failure to ensure this will result in the software ceasing to function.

2 Software Features

2.1 Recording Replay

Feature	Full Edition	Coder Edition
Full recording replay	•	•
Event logging	•	•
Video export of recordings and recording segments	•	•

2.2 Mapping

Feature	Full Edition	Coder Edition
Manual fixation mapping to snapshot images	•	•
Automatic fixation mapping to snapshot images (see note below)	•	•
Time of Interest	•	

2.3 Visualizations

Feature	Full Edition	Coder Edition
Static heat maps on snapshot images	•	
Static gaze plots on snapshot images	•	

2.4 Areas of Interest (AOIs)

Feature	Full Edition	Coder Edition
Create and edit AOIs on snapshot images	•	•

2.5 Data Export

Feature	Full Edition	Coder Edition
Eye tracking data to text file (.tsv)	•	
Visualizations as images (.png & .jpg)	•	

Currently available data export fields:

Project name
Export Date
Participant name
Recording name
Recording date
Recording start time
Recording duration
Recording Fixation filter name

Snapshot Fixation filter name
Recording timestamp
Recording resolution width
Recording resolution height
Gaze point X
Gaze point Y
Gaze 3D position left X
Gaze 3D position left Y
Gaze 3D position left Z
Gaze 3D position right X
Gaze 3D position right Y
Gaze 3D position right Z
Gaze 3D position combined X
Gaze 3D position combined Y
Gaze 3D position combined Z
Gaze 3D position left X
Gaze 3D position left Y
Gaze 3D position left Z
Gaze 3D position right X
Gaze 3D position right Y
Gaze 3D position right Z
Gaze 3D position combined X
Gaze 3D position combined Y
Gaze 3D position combined Z
Gaze direction left X
Gaze direction left Y
Gaze direction left Z
Gaze direction right X
Gaze direction right Y
Gaze direction right Z
Pupil position left X
Pupil position left Y
Pupil position left Z
Pupil position right X
Pupil position right Y
Pupil position right Z
Pupil diameter left
Pupil diameter right
Eye movement type
Gaze event duration

Eye movement type index
Fixation point X
Fixation point Y
Event
Recording media name
Recording media width
Recording media height
Media width
Media height
Mapped gaze data X
Mapped gaze data Y
Mapped eye movement type
Mapped eye movement index
Mapped fixation point X
Mapped fixation point Y
Automatically mapped gaze data score
Automatically mapped gaze X
Automatically mapped gaze Y
Manually mapped gaze X
Manually mapped gaze Y
Automatically mapped gaze data score
Automatically mapped gaze X
Automatically mapped gaze Y
Manually mapped gaze X
Manually mapped gaze Y
AOI hit
Gyro X
Gyro Y
Gyro Z
Accelerometer X
Accelerometer Y
Accelerometer Z

2.6 Metrics Export

Feature	Full Edition	Coder Edition
AOI based eye tracking metrics export to Open XML (.xlsx) compatible spreadsheet.	•	

Currently available metrics:

Interval Duration
Interval Start

Event Count
Event Count (include zeroes)
AOI Time To First Fixation
AOI Total Visit Duration
AOI Total Visit Duration (include zeroes)
AOI Average Visit Duration
AOI Visit Count
AOI Visit Count (include zeroes)
AOI Total Fixation Duration
AOI Total Fixation Duration (include zeroes)
AOI Average Fixation Duration
AOI Fixation Count
AOI Fixation Count (include zeroes)
Percent Fixated

3 Software System Requirements

3.1 Minimum System Requirements

- Windows 7 or later
- 64-bit Windows
- 1280×768 px screen resolution
- 2nd Gen Dual Core Intel Core i5 2.3 GHz or higher
- 4GB RAM
- Integrated Graphics Card
- 256GB 7200RPM Hard Drive

3.2 Recommended System Configuration

- Windows 7 or later
- 64-bit Windows
- 1920×1080 px screen resolution
- 4th Gen Quad Core Intel Core i7 3.0 GHz or higher
- 8GB RAM
- Dedicated Graphics Card
- 256GB SSD Hard Drive



©Tobii®. Illustrations and specifications do not necessarily apply to products and services offered in each local market. Technical specifications are subject to change without prior notice. All other trademarks are the property of their respective owners.

Tobii Pro Support

EUROPE / GLOBAL

Phone (SWE): +46 8 522 950 10
Phone (GER): +49 69 24 75 03 4-27
support@tobii.com
Support hours: 8 am - 6 pm
Between July-August: 9 am - 5 pm
(Central European Time, GMT +1)

NORTH AMERICA

Phone: +1 703 738 1320
support.us@tobii.com
Support hours: 8 am - 8 pm
(US Eastern Standard Time, GMT -6)

JAPAN

Phone: +81 3 5793 3316
support.jp@tobii.com
Support hours: 9 am - 5.30 pm
(Japan Standard Time, GMT +9)

CHINA

Phone: +86 180 1558 5168
support.cn@tobii.com