

Tobii Pro Lab and Tobii Pro Studio Recommended System Configuration

A system with recommended specifications is sufficient to run and analyze most types of experiments with good performance. Please note that certain operations, such as calculating Metrics and Statistics for large Projects, encoding exported videos of Recordings and running Real-World Mapping can still take a significant time to perform.

Component	Required specification	Important notes
CPU	Intel Quad Core i5 3.0 GHz	6 th generation or later
RAM	16 GB	
Hard disk	SSD	256 GB or more is recommended
Graphics card	Dedicated Nvidia card	
Monitor	1920 x 1080 resolution	DVI, HDMI or DisplayPort connector
Operating system	Windows 10	64 bit, Enterprise or Professional
Parallel port for sending TTL-signals*	StarTech PEX1P Manhattan PCI 158176 Digitus DS-30020-1	Please note that while sending of TTL-signals should work with most parallel port cards, USB to Parallel port adapters are typically designed to be used with printers only, and are not able to send TTL-signals
Web browsers**	Firefox (Version 40.0.2-47.0) Internet Explorer 11	Chrome not supported
User camera**	Logitech HD Pro Webcam C920	For Recording the Participant during an experiment
Scene camera***	Logitech HD Pro Webcam C920	For scene camera setups using Tobii's remote eye trackers without a screen
Video capture card**	Datapath® Vision RGB-E1S®	For external video setups, i.e. when a device other than the Tobii Pro Studio computer to present Stimuli. DVI-I connector. Supports VGA and RGB adapters, and HD resolution recordings.
VGA to USB video capture*	Epiphan VGA2USB Pro®	External video setups, when Tobii Studio is running on a laptop. This is not recommended for E-prime setups.

* Tobii Pro Lab only

** Tobii Pro Studio only

*** Will be available for Tobii Pro Lab in Q3 2017

Note that the performance of the application in general and the Stimulus presentation timing in particular is affected by the number and resolution of the media and the overall performance of the

computer used to run the experiment. Please refer to the *Timing Guide for Stimulus Display in Tobii Pro Lab* and the *Timing Guide for Tobii Eye Trackers and Eye Tracking Software* documents for more details.

General recommendations

- Tobii Pro Lab and Tobii Pro Studio are made for research purposes. They rely on tight control of the operating system and hardware components for optimal stimulus presentation and sensor recording. Because of this we strongly recommend that you keep the research computer clean of third party applications that run as background processes.
- Codec packs can interfere with Tobii Pro Lab and Tobii Pro Studio. Only install the specific video and audio codecs supported by the software and needed for your experiments.
- Make sure that the energy saving options of your machine do not slow down the processor and other sub-systems to save power or battery life. This is extra important for laptops running on battery power.
- To avoid interference from other machines on the same network, use a direct connection between your computer and the Tobii Eye Tracker. For more information on how to connect the computer and the Tobii Eye Trackers read the section entitled “Connecting your Tobii Eye Tracker” in your Eye Tracker User Manual.
- Don’t run your study at excessive screen resolutions, choose something reasonable for your purpose.
- Set Windows 8.1, Windows 7 or Windows 10 appearance and power options to “high performance”.
- Running two displays simultaneously (Dual-display) requires more graphic card RAM and processor resources in your graphics card, plus some additional management overhead in the graphics driver. This can cause lower graphics performance.
- For dual screen setups with the Tobii T60XL, a wide screen with 1920 x 1200 resolution is recommended.
- Disabling or disconnecting unused Bluetooth, WLAN/Wireless and network connectors and unloading CD or DVD disk drives can improve performance and limit connectivity issues.

Tobii Pro Lab High Performance System Configuration

The High Performance System Configuration is recommended for experiments with high demands on timing accuracy, such as EEG ERP studies.

Component	Required specification	Important notes
CPU	Intel Quad Core i7 3.0 GHz or higher	6 th generation or later
RAM	32 GB	
Hard disk	SSD	256 GB or more is recommended
Graphics card	Dedicated Nvidia card	
Monitor	1920 x 1080 resolution	DVI, HDMI or DisplayPort connector
Operating system	Windows 10	64 bit, Enterprise/Professional

Tobii Pro Lab Minimum System Configuration*

On a system meeting the minimum recommendations, all parts of the software will function, but with low performance and limitations on the size of Projects (see Project and Media limitations below), the number of recorded sensors and the Stimulus presentation timing. It is only recommended to use computers with minimum specs for small studies without high demands on timing accuracy, or for educational purposes.

* Running the Tobii Pro X3-120 eye tracker without an EPU requires the Recommended System Configuration and a powered USB 3.0 port.

Component	Required specification	Important notes
CPU	Intel Dual Core i5 2.5 GHz	4 th generation or later
RAM	8 GB	
Hard disk	SSD	256 GB or more is recommended
Graphics card	Integrated Intel card	
Monitor	1280 x 768 resolution	VGA, DVI, HDMI or DisplayPort connector
Operating system	Windows 7, 8.1 or 10	64 bit, Enterprise/Professional