Glasses2Varioport

BioSIGMA
Biosignal Measurement and Analysis

The Missing Link

Next Step in the Evolution of Eye Tracking and Biometrics

- Tobii Pro Glasses 2 has set new standards in the field of mobile eye tracking.

- The varioport recorder system is an established standard device in the scientific world for biometric data acquisition.

- The Biometric Software Suite was designed to integrate data from eye tracking and biometric devices to analyze data from both worlds.

So let's put all this together:

Glasses2Varioport is the link between the Glasses 2 trigger port and varioport recording system. Together with the synchronized import of the Biometric Software Suite it delivers a plug-and-play-solution for the combination of mobile eye tracking and biometric data recording.
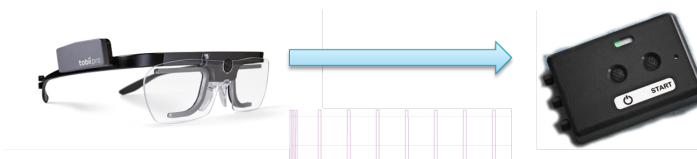

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How does it work?

Tobii Pro Glasses 2 are sending trigger signals every 10 seconds via an inbuilt port. The start of a recording sequence is marked by three short pulses. Glasses2Varioport connects the trigger port from Tobii Pro Glasses 2 with an input channel of the varioport recorder, so all triggers are recorded together with the biometric data.

The synchronized import wizard of the Biometric Software Suite detects the trigger in the eye tracking data as well as in the biometric data automatically and merges the datasets together for further analysis, for example with the Biometric Software Suite Professional with inbuilt GSR analysis, FFT filtering and other operations as well as raw data export for further individual analysis in R or SPSS.
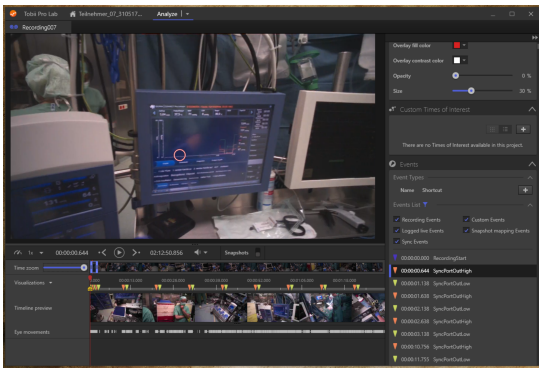
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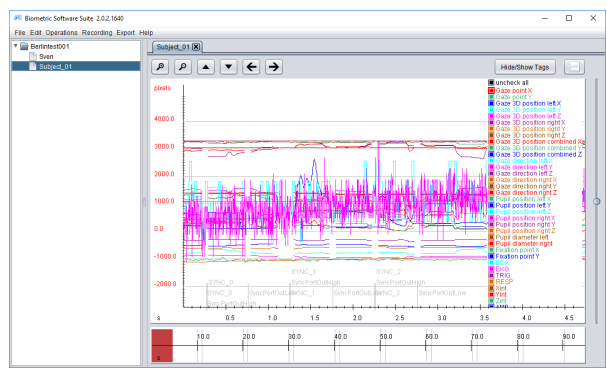## What are the advantages compared to the streaming solutions on the market?

- Every data is recorded with its own device and sampling rate. No data gets lost during recording.

- Data is synchronized via a hardware link. No delay from buffering or hardware drivers is involved.

- All data is recorded on SD cards in the devices. There is no need for streaming data via WIFI or Bluetooth.

Which kind of biometric data is supported?

The varioport system supports the recording of skin conductance (GSR), ECG/Heartrate, Respiration and EEG up to 8 channels. Other signals may be included on request.

Sync Trigger in Tobii Pro Lab

Synchronized data in the Biometric Software Suite

Are other devices supported?

The system is designed and optimized for the combination of Tobii Pro Glasses 2 and the varioport or variolab recorder. **Glasses2Varioport** is the first solution, which synchronizes Tobii Pro Glasses 2 directly with other sensors by the use of hardware synchronization.

Are there any references?

Yes, one of our references is for example the German Heart Center. The German Heart Center Berlin (https://www.dhzb.de) is a specialized hospital for the diagnosis and treatment of cardiovascular disease. It applies Glasses2Varioport and supports us with their experiences.

To order the system or parts of it just contact us:

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