Prophea.X Expanding the spheres of behavioral research **ERGONEERS**

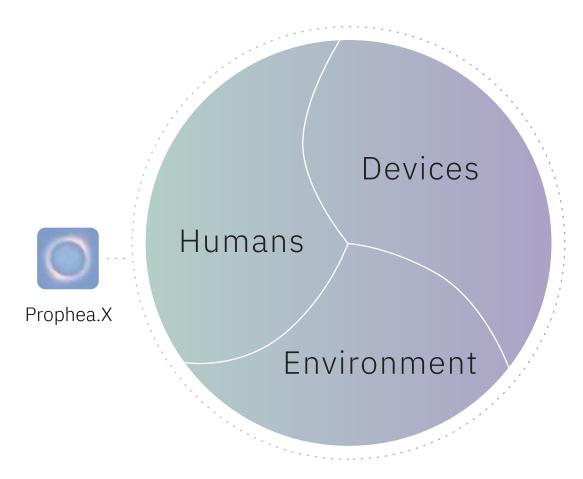


Get Full Excess to Human Centered Insights



Prophea.X is a state of the art IT ecosphere connecting sensor-based, human behavior analysis methods most effectively in one ground-breaking application.

Prophea.X Unifies Complex Data Landscapes In Real Time, Offline or in Protected Systems



Prophea.X - A new Industry Standard

Flexible, Research - Grade Sensor-Fusion for

Human factors

Ergonomics

Training

Neuroscience

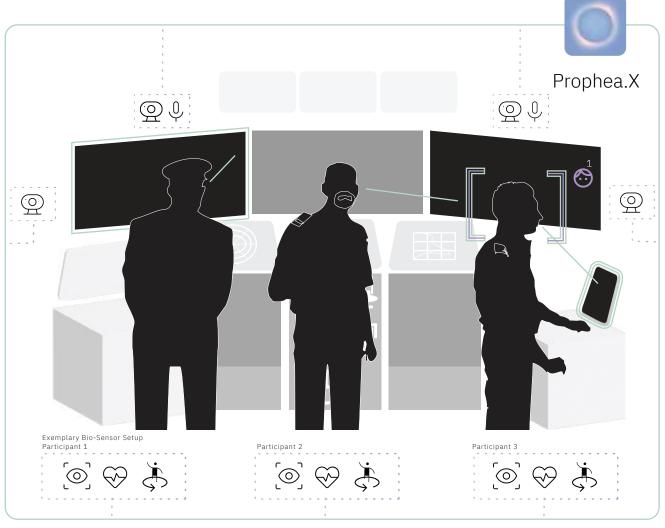
Psychology

Education

Prophea.X

From AI powered Observation _ to Optimisation

360° Situation Analysis



Object recognition corresponding with Eye tracking & Video signals requires Propheaautorecog Module

Holistic & Infinitly Simultaneous

Instantly Synchronized Multi Subject Recording and Analysis for any setting.

Prophea.X is designed for research in most complex Multi Subject Scenarios: i.e. Ship bridge, Mission Controll, Air- & Spacecrafts, Automotive & Specialised Vehicles, Life-, Cinema- & On-Screen-Entertainment. Prophea.X facilitates unlimited analysis of:

Gaze Behavior Interaction Attention Cognitive State

Environment Decision making Vehicle data Simulator data

Prophea.X

A Modular IT Design for

Infinite analysis objectives













Sport & Performance

Behavior Research

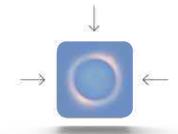
Training & Simulation

Performance-Monitoring

Road Safety Analysis

UX Research





Two apps

Prophea.X



Data Engine
Data Recording & Life Monitoring



Analyzer
Acessing Analysis Modules

Flexible Analysis Modules



^{*}Availability dates vary

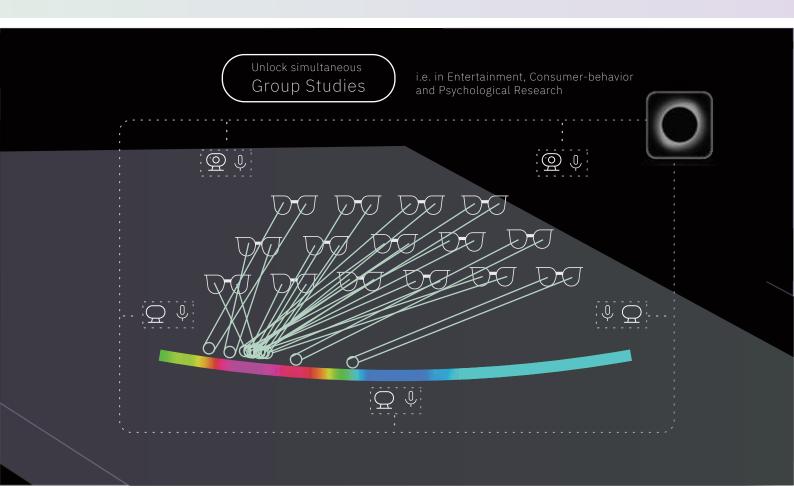
Prophea Data Engine



The big(gest) picture

Prophea.X Data Engine is empowering you to new levels in sample sizes. All subjects recorded simoultaneously, experiencing the same external influences, while in real interaction:

.



Collective Data Acquisition

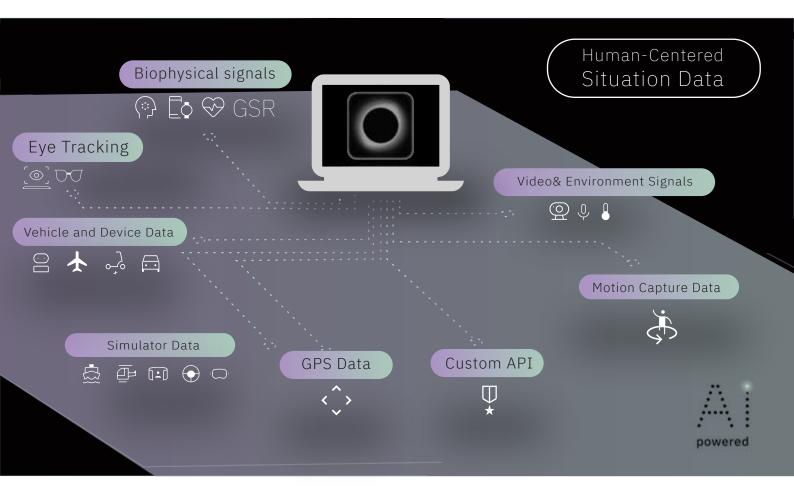
Prophea.X allows simultaneous recording and analysis of multiple interacting Humans, Humans and Machines / Robotic devices in perfect synchronisity and centrally triggered in one closed system while maintaining modest hardware requirements.

Prophea Data Engine

New Spheres of Flexibility

Any Sensor Any Environment

With its AI-powered flexibility to select master frequency and synchronization mechanism Prophea Data Engine is designed to perform independently, irrespective of data type or frequency.



Integrating Elaborate Data Protocols

CAN BUS

ROS II

LSL Protocol

Powering the international standard 'Lab Stream Layer' for neural, physiological, and behavioral data streams, Prophea.X allows acess to more than 120 Sensors and Devices. CANBUS interface connectivity allows direct acess to automotive vehicle data.

Simulator Integration

Prophea.X Data Engine connects directly to robotic devices or simulators, allowing simultaneous triggering and data synchronisity from recording to analysis in Prophea Analyzer.

Prophea^{Analyzer}

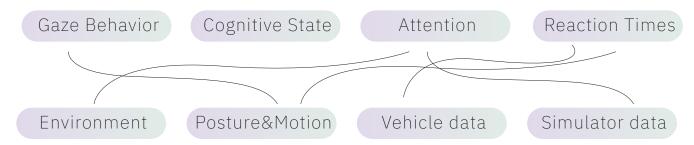


AI Powered Multi Modal Analysis

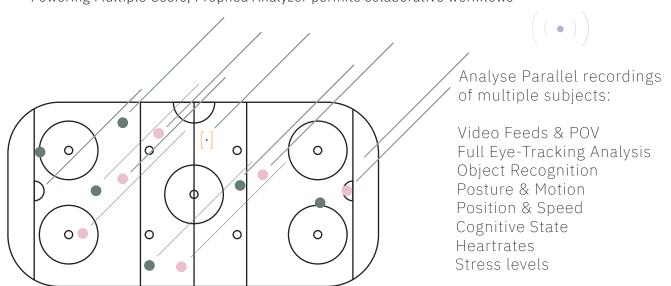
Prophea Analyzer facilitates analysis from 360° of Multi Modal Insights. Looking at one single or a group of subjects recorded in Prophea Data Engine, Prophea Analyzer delivers the powerfull Processing-, Analysis- and Reporting-Framework set in a highly customizable, minimalistic User-Interface.

Multi Modal Analysis in Prophea.X

Boost Calculation Speed of Key Insights and Proof of Hypothesis to a new level



- Powering a clear framework designed to let you maintain focus
- · Prophea Analyzer sets the stage for all current and coming analysis modules
- Powering Multiple Users, Prophea Analyzer permits colaborative workflows

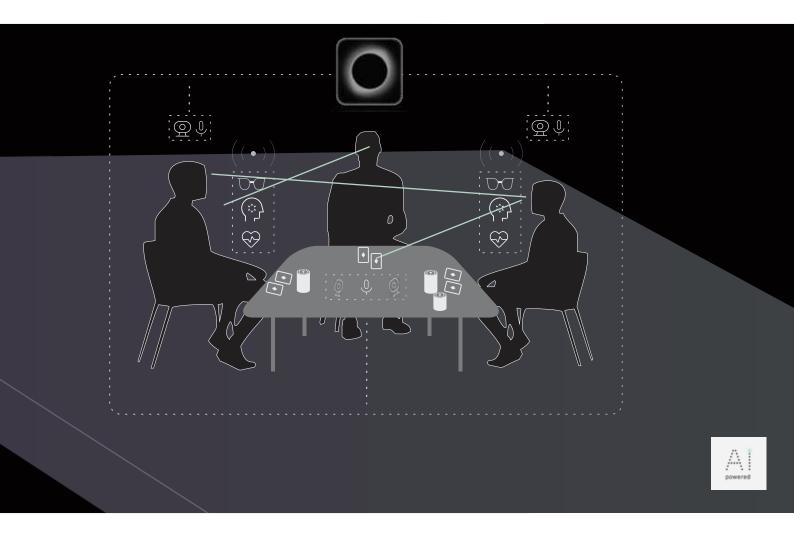


Prophea^{Analyzer}

Analyze Complex Multi Subject Scenarios In One Take

Interaction Analysis in a fraction of time

Analyse the most complex Multi Subject Scenarios using one streamlined platform. 100% Local, Offline Data Processing guarantees data security while maintaining modest hardwear specifications using specialised modules.



A Holistic, Fully Scaleable Video & Biosensor Analysis Suite capable to reveal any pattern, secret or deficit



Propheaeye



Introducing Prophea.X® Eye Tracking

- Synchronizes an unlimited number of simultaneously recorded head-mounted eye trackers1
- No Limit of Acquisition Frequency
- Global AOIs enable unified analysis for all subjects
- Automated gaze analysis for static & moving AOIS
- 3D gaze reference (gaze to field-of-view mapping independent from head movement)
- Elaborate Metrics & Gaze Visualisations
- Blink & Eye Closure detection
- Transparent Calculation Methods & Full parameter adjustability
- Unlimited raw data access & export (coordinates and native image data from eye- and field video)
- Secure, Offline Data Processing
- End to End Solution: From recording to reporting

Take a closest look at

- 1. Fixations and gaze points
- 2. Static & dynamic video Heatmap
- 3. Areas of Interest (AOI)
- 4. Time to First Fixation
- 5. Time spent (Dwell Time)
- 6. Attention ratios
- 7. Fixation sequences
- 8. Revisits
- 9. First Fixation Duration
- 10. Average Fixation Duration
- 11. Pupil diameter
- 12. Blinks, Eyelid opening

All Metrics can be calculated in relation to AOIS.



This sample features two Eye Trackers and two Webcams





Prophea Autorecog detects AOIS and pre-defined objects automatically using AI powered image recognition.



¹ Currently compatible with Ergoneers Dikablis X,Tobii Glasses III

Propheaeye

Multi Eye-Tracking without limits

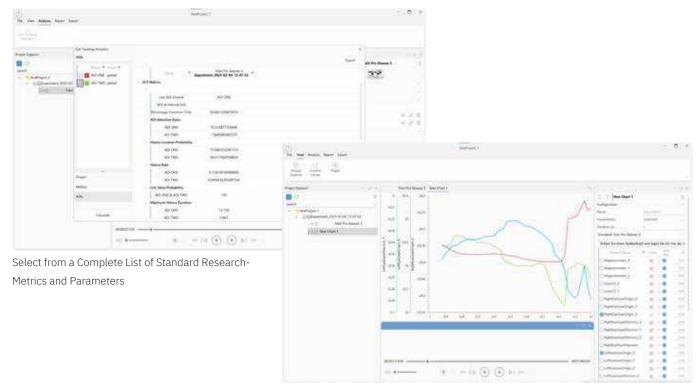


Four Eye-Trackers recorded and analysed using one standard Laptop

Global AOIs - once defined, AOIs are automatically detected by all or selected Eye Trackers.

- Easy to set up
 Integrated Hardware Detection
- Automatically synchronized Eye tracking data from all Subjects
- User Optimized UI Flexible / Customizable UI
- Inbound Reporting Tool exports Diagrams & Graphs
- Collective workflows empower Multiple Users on one License

The Ultimate End to End Eye-Tracking Suite From recording to reporting



Transparent and Adjustable Calculation Methods allow Deep-Dives into Individualized Analysis-Methodologies

Propheaautorecog



Redefining interaction analysis

Video-based object recognition

Prophea^{autorecog} is Ergoneers' cutting edge AI-module for object and pattern recognition.

Prophea^{autorecog} enables an unseen excelleration of insight-generation and impoved convenience in workflows using Prophea.X analyzing modules that primarily work on images, such as Prophea^{eye} or Prophea^{video}.

Prophea^{autorecog} in combination with Prophea^{eye} enables fully automated gaze analyses towards static or moving areas of interest without any manual

Predefine or choose from exisiting presets to automatically detect and track objets as part of your analysis



Lifting Interaction analysis to a whole new level

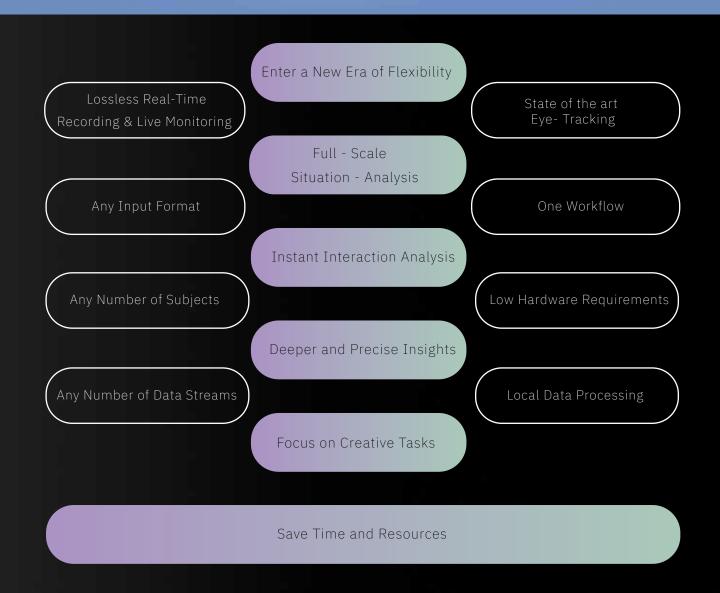




Prophea.X

Prophea.X

Expanding the spheres of behavioral research



Ergoneers ID

Pioneering the forefornt of holistic biophysical and environment data fusion, Ergoneers is dedicated to support its client base on their mission to shape a research-based, human-centered future.

Highest Data Quality

Infinite Scalability

Speed & Flexibility

End to End Solutions

Trusted Partners

20 Years of experience

Largest signal scheme available

600+ Publications

Leading Customers

NASA DAIMLER SIEMENS AIRBUS APPLE AUDI SPOTIFY BMW P&G GOOGLE MICROSOFT KIA VOLKSWAGEN BOSCH HYUNDAY AJAX AMSTERDAM TUM CONTINENTAL FRAUENHOFER GEORGIA-TECH UNIVERSITY OF IOWA RWTH-AACHEN

ERGONEERS

Connect with us for your individual consultation!



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