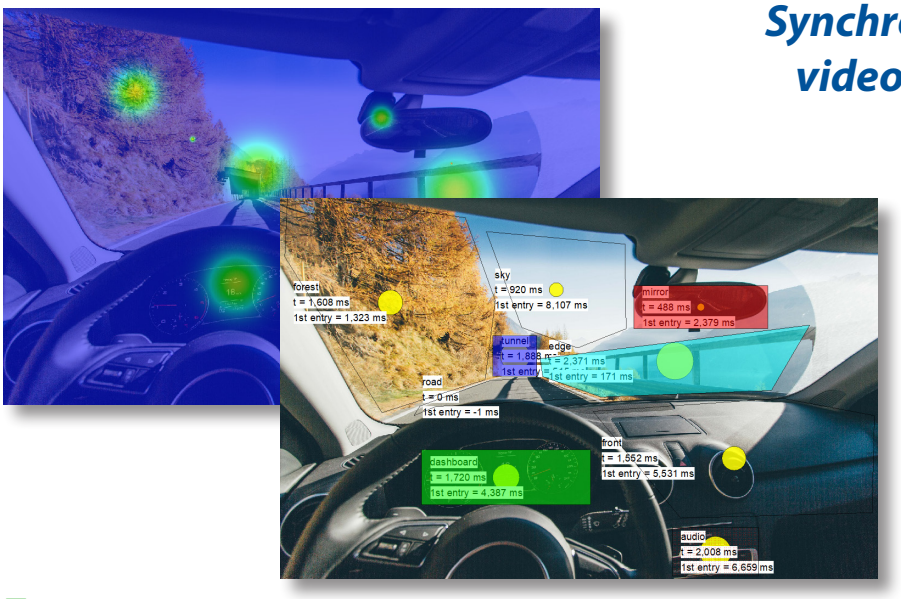
Eye Tracking

BIOPAC® Systems, Inc.
Registered to ISO 9001:2015

Wearable Eye Tracking with Physiology Data

Mobile Eye Tracking

Collect data in a variety of environments such as the lab, car, or conference room—even during activities like exercising or shopping. The intuitive interface allows for single-point or multiple-point calibration. Send data to a laptop or log locally on the device. Battery records for up to five hours.



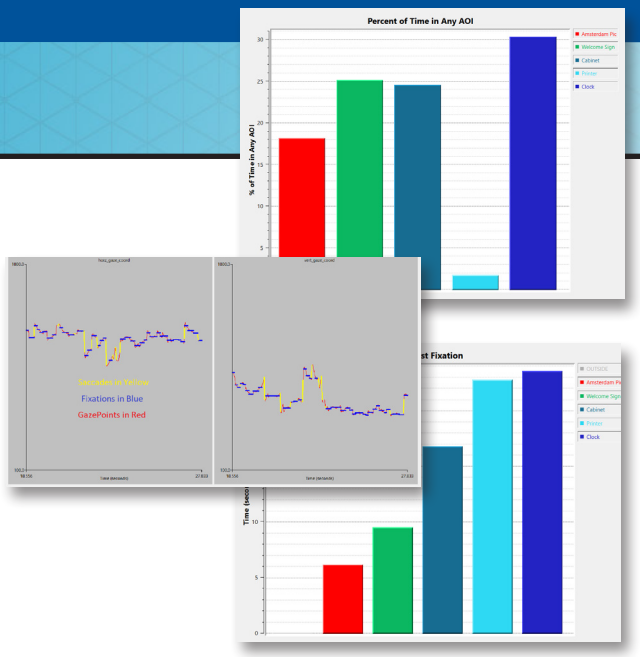
Synchronize eye tracking data & video with physiological data

- Subjects can be stationary or mobile and untethered in any location
- Log physiology data to correlate with eye tracking data in Acq*Knowledge* software
- Create and capture Areas of Interest (AOI) or Live Areas of Interest (LAOI) to track gaze for stationary or moving objects

Features

- Precise, binocular eye measurement at 180 Hz
- Automatic vergence correction for accuracy at any distance
- High-Definition Scene Image
- Fast and simple setup: Auto feature detection combined with single-point calibration
- Score feedback gives investigator confidence in quality of gaze data
- Analysis base package included
- Left Eye, Right Eye, and Scene images displayed in GUI with constant real-time feedback
- Two-way audio allows researcher and participant to speak during performance of task
- Real-time network communication with external devices

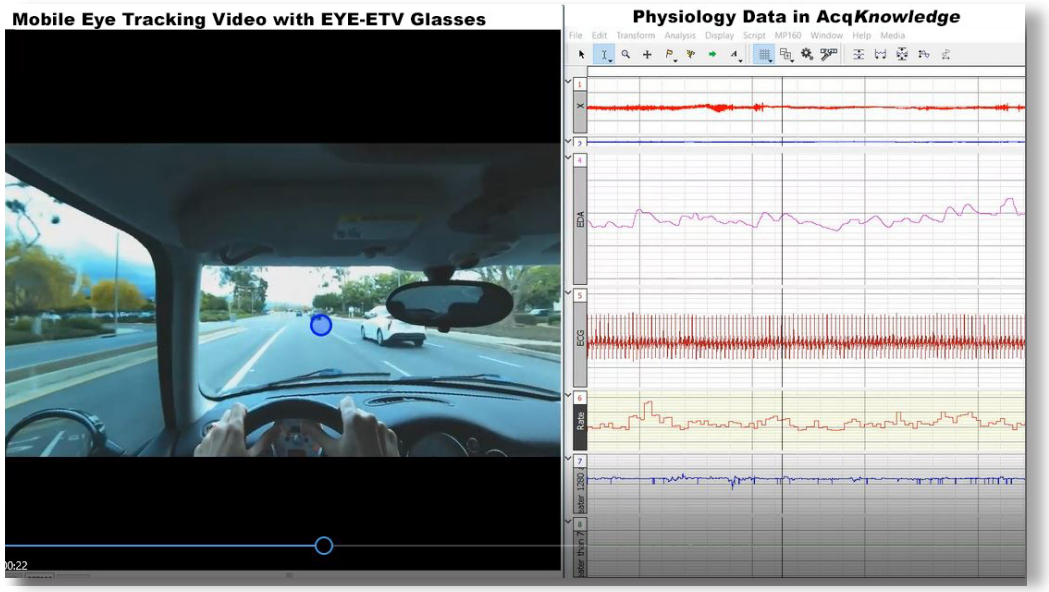
Mobile Eye Tracking



How It Works

Participants simply put on the "glasses" frames, which include the two eye cameras, near IR light sources, scene camera, and microphone. The frames can be worn over prescription glasses and are connected with a standard HDMI cable to the Controller. The Controller is a lightweight unit that may be carried either with a removeable belt, in the participant's pocket, or anywhere one might carry a cell phone.

Synchronize Data in Acq*Knowledge* Software



- Collect eye tracking data from mobile or remote participants
- Combine synchronized physiology data with eye tracking data for a complete view of the participant experience with BN-LOGGER
- Analyze the data with areas of interest, fixations, heat maps, dwells, and more

Analysis Software

Eye tracking data is encapsulated into an intuitive project-based configuration that allows multiple users to view and collaborate. Analysis software quickly provides a video superimposed gaze cursor and scan path for fast distribution to colleagues. Easily review fixations in time, sequence duration, time between fixations, and distance between fixations.

Output statistics for single participant or a large group. Visualize raw data and associate scene images/video with related data events and define Areas of Interest (AOI) with either static or moving assignment. Static Images and Video allow graphical display of visual activity and attention in the form of Heat Maps, Gaze Trails, and Fixation Trails. Easily create AOI Bar Plots and compelling graphical representations of data.