Eye-Trac Series

ASL EYE-TRAC®6 Solutions

As research projects evolve, providing flexible eye tracking solutions is critical in meeting the ever-changing research process. ASL is best suited to meet this challange. We can design, manufacture, package and deliver the configuration needed to achieve your research goals today with the ability to enhance that same system to meet future requirements.
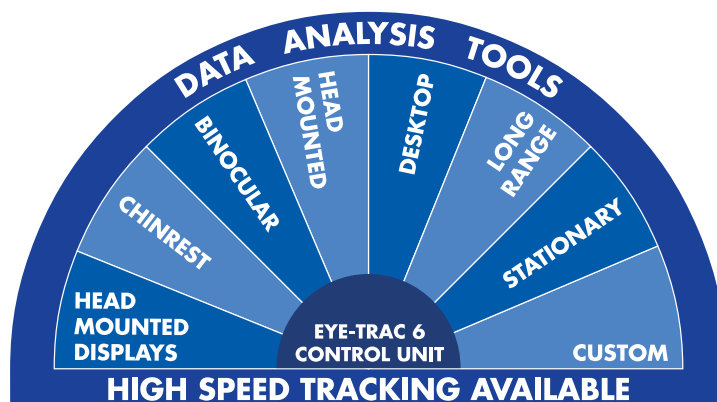
ASL's unique design consists of three major components (1) the control unit, (2) compatible operating and analysis software and (3) any of our interchangeable optical/camera arrays (head-mounted, desk-mounted and/or long-range optics). ASL has the research background and ability to develop customized configurations to match your particular application.

The ASL Control Unit

The Control unit is the first component and cornerstone of the Eye-Trac 6 series. It is compact, easy to config-ure and will work in tandem with your interface computer or laptop (operational software is included). This maximizes modularity while minimizing obsolescence when the parameters of future studies require another type of optical/camera array.

Main features include:

* *Bright Pupil Technology*: Delivers the illumination and image axis in a coaxial manner. A robust eye image means the ability to utilize many more participants, even those with potential obscuring artifacts.

* Provides continuous data collection that is independent of a Windows operating system. Can be configured to work with a PC computer or laptop for both in laboratory and off-site data analysis
* Wide variety of data output including
    o   Real time serial data for x, y gaze coordinates and pupil diameter
    o   Digital X/Y pupil diameter and pupil diameter sent to ASL interface computer
    o   2 channels of analog output
    o   1 channel of video output with point of gaze superimposed on scene image

- Constant visual feedback of the eye and scene images with superimposed gaze cursor displayed on two (2) 7" LCD color monitors

- Cables and connections are color coded for easy set-up

- The Control unit is compatible with a variety of PCs giving researchers the flexibility to use any computer that meets their specific needs

ASL's Interface Software

The ASL Interface software is the second component of the EYE-TRAC®6 Series. Main features include:
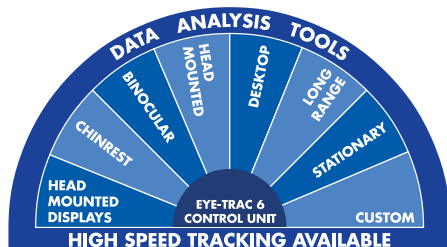
- Fast set-up with auto-thresholding and auto-calibration options. Manual overrides available for challenging participants

- Most versatile calibration options available including a 1-Point calibration correction

- The interface is user-definable and can be configured for your specific environment

- Ability to pre-select the data collection paramaters of interest, significantly reducing data analysis time

- A software development kit (SDK) utilizes Microsoft dot com object technology and provides instructions for the coding and commands needed to utilize E-Prime, Presentation, MATLAB, Visual Basic, Labview, C++, and other types of coding languages

ASL Data Analysis Tool/EYENAL

All EYE-TRAC®6 Series Eye Trackers include software for analyizing and displaying the collected data on static images. EYENAL reduces all the data to a list of fixations and the parameters can be adjusted to meet the researcher's definitions and interpretations of events. Other important features include the ability to plot scan patterns, define areas on interest on the stimulus display as well as compute many statistical paramaters. For more detailed information, please feel free to request out EYENAL brochure.

ASL Data Analysis Tool/EYENAL

ASL offers the largest section of optical camera arrays. To complete your configuration of the ASL EYE-TRAC®6, you simply select your optical/camera array(s). Please review our individual optics brochures.

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