Applied Science Laboratories

INNOVATIONS IN EYE TRACKING

EYE-TRAC®6 Series

Configurable Eye Tracking Solutions

ASL is aware that evolving research projects demand the flexibility of eye tracking solutions that can grow and adapt to meet your changing research requirements. ASL can design, manufacture, package and deliver the configuration needed to achieve your current and future research goals.

ASL's unique design consists of three major components; (1) the control unit, (2) compatible operating software, and (3) interchangeable eye camera optics (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.

ASL Control Unit

The Control unit is the first component and cornerstone of the EYE-TRAC®6 series. The EYE-TRAC®6 is compact, easy to configure and will work in tandem with your interface computer or laptop.

The modularity of the EYE-TRAC®6 provides greater flexibility when the parameters of future studies require another configuration of eye camera optics.

Main Features Include:

Wide variety of data output including:

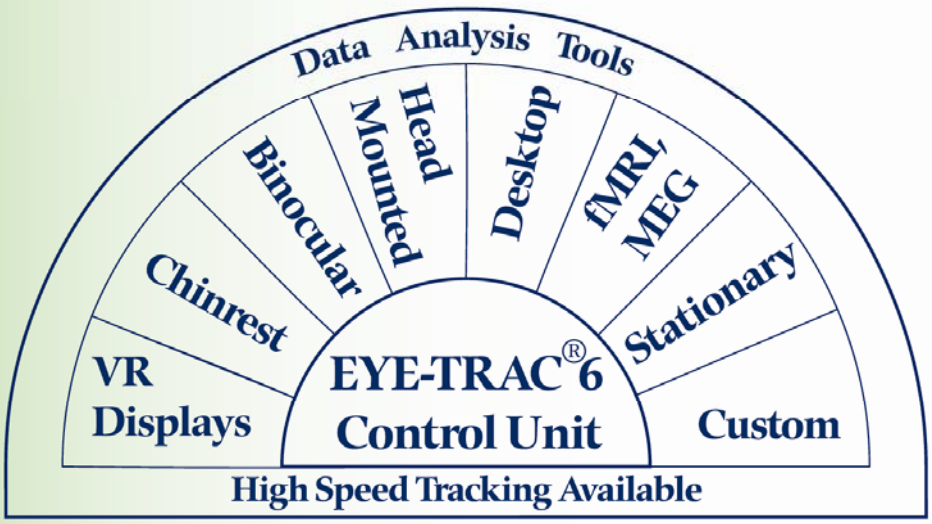
- Real time serial data for gaze coordinates and pupil diameter
- Both horizontal & vertical pupil diameter
- 2 channels of analog output (standard)
- 1 channel of video output with point of gaze superimposed on scene image

All real time computations occur in the control unit - not in a PC where the Windows operating system can affect data output rates. Data output from the control unit is at a known constant rate .

Constant visual feedback is superimposed on eye and scene images, and displayed on two (2) 7" LCD color monitors, allowing the operator to monitor the status and quality of the measurements.

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

The cables and connections are color coded for easy set-up.



*All eye camera optics are configurable with control unit

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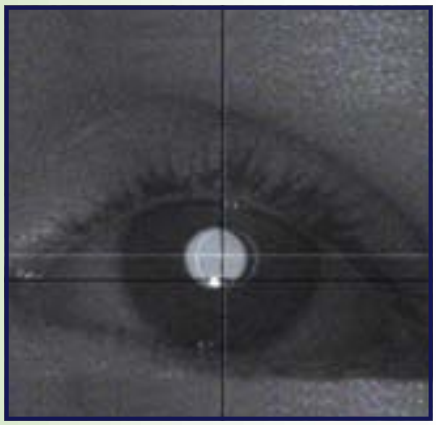

Control Unit's physical dimensions are: 4.5"/ 9.75"/ 10.25" or 11.43/24.765/26.035cm (H/W/D)

ASL Interface Software

The ASL Interface software is the second component of the EYE-TRAC®6 Series.

Main Features Include:

Fast set-up with our autothresholding and auto-calibration options. Manual overrides are available for challenging participants .

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

*All eye camera optics are configurable with control unit

A Software Development Kit (SDK), which utilizes Microsoft COM technology and provides instructions and samples showing how to use E-Prime, Presentation, MATLAB, Visual Basic, Labview, C++, and other types of third party software.

ASL Eye Camera Optics

The ASL Eye Tracking optics is the third component of the EYE-TRAC®6 series.

ASL offers the largest selection of eye camera optics. To complete your configuration of the ASL EYE-TRAC®6, you simply select your eye camera optics. Please review our individual optics brochures for more specific details.

ASL Results

The ASL Results application allows the researcher to reduce data to a list of fixations. The parameters used to compute fixations can be adjusted to meet the researcher's definitions and interpretations of events. Other important features include the ability to plot scan path patterns, define areas of interest on the stimulus display as well as compute many statistical parameters. For more detailed information, please feel free to request our ASL Results brochure.

Data Analysis Tools

ASL Results

A comprehensive eye tracking data analysis package is available with each EYE-TRAC ®6 series. ASL Results quickly reduces raw data to user definable fixations and matches those fixations with Areas of Interest (AOI). Includes several statistical parameters as well as creative meaningful visualization of data including heatmaps.

Gazetracker

Gazetracker 8.0's user interface includes a timeline view- a new data view mechanism that superimposes a variety of information- Look Zones, website entrance and exit info, input events, and pupil data represented by a single graph. Spotlighting: the inverse of a heat map, brings clarity where users focus attention.

Interact

INTERACT 8-ASL Edition streamlines frame by frame video analysis providing meaningful eye tracking data. This software solution is consistent with ASL's commitment of striving to improve the utilization of eye tracking.

Technology Partners

- NDI - Northern Digital Inc.
- Intersense
- Phoenix Technologies
- Ascension Technology
- Neuroscan
- Virtual Research
- Sensics
- World Viz
- I-O Display System
- Noldus
- Quiet Eye Solutions
- Millisecond

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