

EYE-TRAC® 6000

Desktop Eye Tracking Solution

The D6 optic is ASL's newest and most robust desktop remote eye tracking configuration to the Eye-trac 6 Series Family. The D6 was designed to quickly and accurately track the gaze position on all participants, from infant to senior citizens viewing one flat surface ,such as a computer or video monitor. The participant can sit freely in front of the flat viewing surface and move approximately one square foot for a comfortable environment.

The advantages of the D6 desktop remote solution are many:

- Superior capture and contrast with bright pupil technology
- Auto-calibration that allows calibration without operator intervention
- Quick and accurate head movement compensation.
- Real-time feedback through tracking session
- Automated features with manual over-rides for challenging subjects
- Versatility in stimulus display devices
- Software Development Kit, which provides access to eye tracker controller port, serial out port and data files recorded by ASL interface program.

O Data Output

The Model D6 is designed to measure a participant's eye line of gaze with respect to a single stationary surface in the environment. ASL's solution provides you with constant feedback with respect to your participant's eye gaze superimposed on the scene and feedback on the eye. Throughout the entire tracking session, the participant's point of gaze will be displayed. This point of gaze measurement is displayed as a cursor or set of cross hairs

superimposed on the image. A videotape or digital recording of this image can be created as a permanent record.

Recorded data includes time, x and y eye position coordinates and pupil diameter. External data events/marks can be recorded along with eye tracker data. Eye position coordinates correlate to specific areas on the surface being viewed. The Model D6 includes a video head tracker, allowing for head



movement to be recorded as well as fast reacquisition when participant leaves and then returns to the viewing area. Model D6 Eye-trac 6 operating software provides the system operator with the ability to enter calibration and subject data as well as specify the operating parameters of the Model D6. Eye-trac 6 software also converts the eye tracker data records into ASCII format for transmission to other local or off-site computers to facilitate off-line spreadsheet analysis. Real-time digital data is available directly from the Eye-trac 6 control unit through a serial port (RS232). The Model D6's interface PC can be connected to an Ethernet network, permitting data analysis from multiple remote locations.

O Data Analysis Software

ASL's EYENAL data analysis software is a set of off-line analysis programs for displaying and processing eye position and pupil diameter data that have been recorded with the

Optional Equipment

The Model D6 is part of the ASL Eye-trac Series. The ASL Eye-trac Series offers the largest number of eye tracking configurations. This provides the greatest flexibility for your current and future research requirements.

SPECIFICATIONS

Scontrol Unit:	Dimensions (H/W/D): 10"X10.5"X4.75"
	Weight: 15 lbs
	Power: 100-240 VAC, 25 watts
Desktop optics:	Sampling and Output Rates: 50 Hz or 60Hz
	Measurement principle: pupil-corneal reflection
	System accuracy: 0.5 degree visual angle
	Resolution: 0.25 degree visual angle
	Head movement: one square foot
	Min/Max distance optics to eye: 20 in to 40 in
	Visual range: 50 degrees horizontally, 40 degrees vertically
Real-time data outputs:	2 analog outputs, x and y gaze coordinates
	Digital data output , x and y gaze coordinates and pupil diameter via pupil diameter via RS232 serial port
⊙ SDK:	Provides access to:
	Eye tracker controller port
	Serial out port
	Data files recorded with ASL interface program