

# Model H6

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## Head Mounted Eye Tracking System

ASL Model H6 is a complete eye tracking system for use in situations where the subject can wear lightweight, head mounted optics and must have unrestricted freedom of movement. It includes all necessary equipment to begin work immediately. The system control unit is compact in size. The optics are lightweight and mounted on an adjustable headband. The scene is recorded with a color camera that can be mounted on the headband or on a fixed tripod. The images from the eye and scene cameras are displayed on two external 9" monitors. ASL EYEPOS operating software and EYENAL off-line data analysis software programs are provided for installation on a PC or laptop computer.

### ⦿ Data Output

The Model H6 is designed to measure a subject's eye line of gaze with respect to the head. The measurement is displayed as a cursor or set of cross hairs superimposed on the image from the scene camera. A videotape of this image can be created as a permanent record and used for data analysis.

Recorded data include time, x and y eye position coordinates, and pupil diameter. External data events/marks can be recorded along with the eye tracker data. If the Model H6 includes the optional magnetic head tracker, head position and orientation are also recorded.

Model H6 EYEPOS operating software provides the system operator with the ability to enter calibration and subject data, and specify the operating parameters of the Model H6. EYEPOS also converts the eye tracker data records into ASCII format for transmission to other computers or for off-line spreadsheet analysis. Data is available directly from the Model 6000 control unit through a serial port (RS232). The Model H6's interface PC can be connected to an Ethernet network, permitting data analysis from remote locations.



### ⦿ Data Analysis Software

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 Model H6. EYENAL programs identify fixations, plot scan patterns, let the user define areas of interest on the stimulus scene, tabulate pupil diameter and compute various statistical parameters.

