



Eyetracking Expertise
EYE-TRAC® 6000

Video Based Eye Tracking System

For Use with
Non-Human Primates

ASL, the world leader in eye tracking technology for over 30 years, has developed a system specifically for use with monkeys. Some of the key specifications include:

- Spatial Resolution: 0.25° visual angle
- Temporal Resolution: 120, 240 or 360HZ w/no loss of resolution
- Visual Range: 50° horizontal, 40° vertical
- Distance optics to eye: 12 to 20 inches (remote at 240 HZ)
- Calibration points: User definable, 2 to 17
- Accuracy: 0.5° visual angle
- Bright pupil/corneal reflection: Not affected by eyelashes or facial hair
- Data output: Real-time analog and digital output, x y
- Pupil size: Available real-time, digital only
- Custom interfaces: ASL will supply a dll and applicable source code upon request
- Current interfaces: Current customers have interfaced to REX, TEMPO, CORTEX, MatLab and ePrime
- On-site setup/training: Available upon request
- Custom optics mounting: Available upon request
- Use with humans: All optics will work with humans

ASL has a variety of optics options designed to meet your individual needs. The eye tracking control unit is modular and will work with any optics chosen. Each system will include:

- Optics Chosen
- 6000 control unit
- 9" video monitor for tracking the eye
- Interface software
- Cables
- Training manual
- 1 year parts and labor warranty

The interface software must be installed on a Pentium PC (not included) that has an RS232 port (including laptops).



Model 6000 Control Unit

Applied Science Laboratories

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Eye Tracking Optics Options:

◎ R-HS-S6

For use when monkey's head is fixed. Optics mounted on a tripod and can be positioned up to 20" from the subject. As with all options camera can be adjusted between 120, 240 and 360Hz with no loss of resolution.



◎ R6-S6 Macro



This configuration is designed for the small optics module to be placed directly in front of the animal. The distance from the animal's eye to optics is limited to less than eight inches.

◎ R-LRO6



ASL has been installing eye trackers in magnets for over 4 years and installations have ranged from 1.5T to 4T. The optics can be mounted up to 16' from the center of the magnet and use a telephoto lens to track the eye. A small mirror is custom mounted to the head coil or chair. Contact us for more information and a list of references.

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