SR Research

Complete Eye Tracking Solutions

EyeLink 1000 Technical specifications

	EyeLInk 1000					
	Tower	Primate	Desktop	Arm	Long Range	Remote Option
Monocular Sampling Rate	250, 500, 1000, 2000 Hz					250, 500 Hz
Binocular Sampling Rate		250, 500, 1000 Hz			250, 500, 1000 Hz	
Eye Tracking Principle	Pupil with CR	Pupil Only Pupil with CR	Pupil with Corneal Reflection(CR)			
Average Accuracy	0.25° to 0.5° typical					0.5° typical
Saccade Event Resolution	0.05° microsaccades					0.25°
Spatial Resolution (RMS)	0.01° @ 1000 Hz 0.02° @ 2000 Hz					0.05°
End to End Sample Delay	M < 1.8 msec, SD < 0.6 msec @ 1000 Hz M < 1.4 msec, SD < 0.4 msec @ 2000 Hz					M < 3.0 msec, SD=1.11 msec
Blink Recovery Time	1.0 msec @ 1000 Hz 0.5 msec @ 2000 Hz					2 msec @ 500 Hz
Pupil Detection Models	Centroid or Ellipse Fitting					Ellipse Fitting
Gaze Tracking Range	60° horizontally, 40° vertically		32° horizontally 25 ° vertically			
Allowable Head Movement	25x25x10 mm (horizontal x vertical x depth)					22x18x20 cm (horizontal x vertical x depth)
Optimal Camera-Eye Distance	38 cm	30-45 cm	40 - 70 cm		60 - 150 cm	40 - 70 cm
Glasses Compatability	Good		Excellent			Good
Infrared Wavelength	910 nm or 940 nm		890 nm or 940 nm			

Specifications are subject to change without notice.