



RED-oem

Technical Specification

Sampling rate	30 - 120Hz (configurable)
Tracking angle	+/- 20° horizontal, +20°/-40° vertical
PC Interface / Power	1x USB 2.0 / Power over USB (2.6W)
Gaze position accuracy	0.5°
Spatial resolution (RMS)	0.1°
Eye tracking mode	binocular
Operating distance	50cm - 75cm
Tracking Range (head box)	32cmx21cm @ 60cm distance
Calibration mode	2/5/9 points
Head Movement Velocity (max)	>15cm/s@60Hz
System latency (end to end)	<20ms@60Hz
Blink recovery Time (max)	16ms@60Hz
Tracking Recovery Time (max)	250ms
Dimensions (Width x Height)	Electronic components:
Weight	15.4 cm x 2.5cm / 30g
Case Design	Different design options available Electronics only option available
Eyewear compatibility	Works with most glasses and lenses
Data	Timestamp Gaze data (x/y screen coordinate) 3D eye / head position Pupil diameter
API/SDK	C function call based DLL (Sample code for C#/WPF, C/C++, MATLAB, Python)
Operating System	Microsoft Window XP, Vista, Windows 7 (32/64 Bit)
Technology	Non-invasive, video-based eye tracking
Norm compliance	CE FCC Eye Safety EN60601-1-2 + EN55011, class B