

Looking for a research partner that can follow you anywhere? Aurora, Smart Eye's smallest remote eye tracker, is designed to deliver big insights wherever you are.

Aurora brings portability, versatility and superior performance, all while collaborating with other sensors and bio-measurement systems for a more accurate and user friendly research experience.

Technical Specifications

Sampling rate	60, 120 and 250 Hz
Headbox (Freedom of Head Movement)	50 x 40 cm at 65 cm distance
Operating distance	50-80 cm
Accuracy	0.3 degrees (typ.)
Precision	0.1 degrees (typ.)
Output data	Gaze origin, gaze point, pupil diameter, eyelid opening, head position and rotation, camera-time and real-time time stamp
	All outputs as binocular data with associated quality index
Gaze calibration	Both eyes or single eye
Time Stamp Precision	1 µs
Synchronization	8-bit markers*
Head pose recovery time	1 frame (immediate)
Blink recovery time	1 frame (immediate)
Gaze recovery time	1 frame (immediate)

smart eye

Latency	25 ms (60 Hz), 17ms (120 Hz), 12ms (250Hz)
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Eye Tracking Principle	Dark pupil and corneal reflection
Maximum Screen Size	24" (16:9 aspect ratio)
Operating environment	Indoor (all illumination conditions)
Size	146 x 24 x 27 mm (width x height x depth)
Weight	162 g
Cable length	2 m (up to 8m with additional hardware**)
Camera Interface	USB-C
Mount Type	On screen (mounting plate included)
Operating system	Windows 10
Accessories	Aurora Expansion Box (8-bit markers) Extended USB-C cable

*Requires Aurora Expansion Box accessory **Cable length limited to 2m for Aurora 250 Hz connected to Expansion Box

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Expansion Box Technical Specifications



Marker type

Physical marker interface

Electrical marker interface

Marker accuracy

Power supply

Eye tracker compatibility

Compatibility

Dimensions

Weight

8-bit word

D-Sub DB9 female

3-30V will pull a bit high

22 us delay from electrical signal change until marker time-stamped

Powered from the eye tracker connection

All new generation Auroras with 'smart eye' print on the front

Chronos (Psychology Software Tools) StimTracker (Cedrus)

Width 104mm Length 135mm (incl. connectors) Height 34mm (incl. feet)

258g

Contact us: smarteye.ai/contact