

EYE-TRACK-BAR

REMOTE SCREEN-BASED EYE TRACKING



Robust Eye Tracking in a Compact Module

Eye Tracking Fully Integrated with *AcqKnowledge*

Large head motion box & reliable fixed data rate

40 Hz • 60 Hz • 120 Hz • 200 Hz

This mini screen-based remote eye tracking bar provides gaze position, dwell time, blink rate, pupil size, and more. Use with an *AcqKnowledge* Eye Tracking Integration License ([ACK100W-EYE](#)) to access valuable eye tracking metrics: Gaze Path, Gaze Plot, Heat Map, and Attention Map. Create user-defined Areas of Interest (AOI) and select Scarf Plot, String Plot, Pie Chart, and Key Performance Indicator (KPI) metrics. For concurrent physiological data such as Heart Rate, EDA, SCR/SCL, etc., record biometrics from a Wireless Smart Center, MP160, MP36R Research System, or other BIOPAC hardware.

Small and Rugged

The housing is an inch shorter than its predecessor and has the USB connection in the back where it is protected from bumps and knocks.

Increased Head Motion Tolerance

New 10 mm lens provides a 15% increase in head motion box.

Improved Accuracy Outdoors

Strobing IR lights enable robust tracking in a variety of lighting conditions. In addition, an optical filter integrated into the front cover improves tracking near windows and other tough lighting conditions.

Less Distraction

Smaller tracking indicator lights on the front reduce distraction.

Compatible

Compatible with [Microsoft Eye Control](#).

AEye Technology Benefits

AEye technology consists of the latest generation of EyeTech Digital Systems' algorithms, software, and hardware, as well as offers a superior experience for users. This includes robust tracking performance, instant acquisition, and a greater tolerance for head motion.

Fast Faster acquisition and reacquisition of the eyes—ideal for those who have a lot of head motion.

Reliable Robust tracking over a range of users and environments.

Smart The AEye hardware comes in a compact, low-power design with all the processing being done on the camera board - relieving the host device of the processing burden.

System Requirements

- Microsoft Windows 8 or 10, 64-bit
- USB Port(s)
- Up to 22 inch monitors

AcqKnowledge Integration

- Add Eye Tracking License [ACK100W-EYE](#)

EYE-TRACK-BAR Technical Specifications

Gaze Accuracy:	0.50°
Gaze Precision:	0.1°
Operating distance:	50-70 cm
Head motion box:	31.5 x 15 x 20 cm (W x H x D)
Pupil Tracking Method:	Dark Pupil Technology (IR), single or binocular tracking
Pupil Diameter:	Yes
Recording Parameters:	<u>Pupil Parameters</u> Bars can record: Gaze position, dwell time, blink rates, pupil size, gaze path, AOI entry points, dwell time <u>Gaze Parameters</u> Bars can record: Fixation, fixation duration, control of stimulation, digital I/O lines, and auditory beeps on AOI target, extract physiological measures for time spent on AOI.
Calibration Method:	Multipoint - 5, 9, or 16 point
Sampling Frequency:	order 40 Hz, 60 Hz, 120 Hz, or 200 Hz
Latency:	40 Hz: 25 ms; 60 Hz: 17 ms; 120 Hz: 8 ms; 200 Hz: 5 ms Fixed hardware time stamps
Slippage Compensation:	Only applies to VR eye trackers
Real-Time Streaming:	Yes, via API (included with bar)
Dimensions:	25.4 cm x 2.6 cm x 3.2 cm
Connection type:	USB
Power supply:	USB port
Weight:	0.21 kg
Certification:	CE and FCC