

## 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 &amp; 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 (e.g., heart rate, EDA, SCR/SCL), records biometrics from a MP160 Data Acquisition System.

**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 (diagonal width) 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:	<p><u>Pupil Parameters</u> Bars can record: Gaze position, dwell time, blink rates, pupil size, gaze path, AOI entry points, dwell time</p> <p><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.</p>
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