

Working principle diagram of an eye-tracking device



Overview

Eye trackers use near-infrared light-emitting diodes (LEDs) to illuminate the eye while the user looks at a screen or object. Cameras fitted onto the device then record the reflections of the light, and computer algorithms analyse the reflections to determine the direction of. This tutorial provides a comprehensive introduction to eye tracking, from the basics of eye anatomy and physiology to the principles and applications of different eye-tracking systems. The guide is designed to provide a hands-on learning experience for everyone interested in working with. Discover how modern eye tracking really works beneath the surface—from infrared light and pupil–corneal reflections to gaze mapping in screens, wearable glasses, and VR headsets. What is eye tracking?

Eye tracking is a sensor technology that measures and records the position and movement of the eyes. It collects data about eye position, how the eyes move and what they focus on (point of gaze).



Article Content

ECE 4760-Eye Tracking System

We focus on three parts of the eye that will respond to incoming light rays in a different manner: 1) the sclera (the white portion of the eye), 2) the iris (the region bearing one's eye color), and 3) the pupil ...

Understanding Eye Tracking Technology: How Does It ...

Eye tracking technology is used to measure eye movement and pupil size, revealing gaze points and visual interest. Learn how eye trackers work.

How do eye trackers work? — A tech-savvy walk-through

This article explains how eye tracking works. We illustrate step-by-step processes of screen-based and wearable eye trackers and XR integrations.

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Structure of the eye tracking system | Download Scientific Diagram

The tested eye tracker device employs an improved Starburst algorithm that combines feature-based and model-based approaches, which is robust to ...

Eye Tracking Headset Using Infrared Emitters and Detectors

We aim to develop an eye tracking technology that is affordable to the average consumer. This project seeks to eliminate the use for a camera and powerful CPU/GPU for eye tracking. The project uses ...

Structure of the eye tracking system | Download ...

The tested eye tracker device employs an improved Starburst algorithm that combines feature-based and model-based approaches, which is robust to ...

Anatomy of an Eye Tracker [How Eye Tracking Works]

How Do Screen-Based Eye Trackers Work?How Do Eye Tracking Glasses Work?How Does Eye Tracking in VR Work?Screen-based eye trackers are typically small black cuboids that attach to a monitor (quite similar to a chocolate bar in size and shape), or are slightly larger standalone devices that are placed in front of a monitor. One of the most crucial components of the eye tracker is the infrared light source, that is used to highlight the eyes. This light...See more on imotions Tobii

How do eye trackers work? — A tech-savvy walk ...

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Foundational Skills for Eye Tracking

Explain generally how eye tracking systems work. Outline anatomy and physiology of the eye that interacts with the eye gaze AAC system. Identify 3 different eye gaze skills along a skills hierarchy. ...

Eye Tracking

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Introduction to Eye Tracking: A Hands-On Tutorial for Students and ...

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The Design and Performance Evaluation of an Eye-Tracking System ...

In this paper, we proposed an eye-tracking system featuring a small size and high scanning frequency, utilizing an electrostatic biaxial scanning mirror fabricated through a micro ...

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