

# Smart Eye Pro



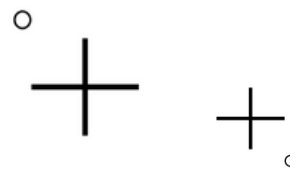
## The World's Most Advanced Remote Eye Tracking System

Smart Eye Pro, a true multi-camera system, is scalable from 2 up to 8 cameras allowing 360-degree head and eye tracking. Free and wide placement of cameras both horizontally and vertically makes it ideal for many environments, setups and situations.

This versatility, combined with stellar performance in all conditions, is why Smart Eye Pro is the preferred research partner for car and flight simulators, vehicle studies, multi-screen or control room environments, long range tracking, mobiles, tablets and single screens around the world.

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## General Specifications and Features



### Free Placements of Cameras

Smart Eye Pro is a flexible system where cameras are located based on customer setup

### Optimal Camera — Eye Distance

30 - 300 cm, adjustable with lenses and positioning of cameras

### Field of View

90° - 360° (depending on number of cameras)

### Tracking Accuracy

- Head: Position +/-5mm | Rotation 0.5 degrees (under ideal conditions)
- Gaze: 0.5 degrees (under ideal conditions) / 5 degrees (calibration free)

### Output

TCP / UDP / CAN (optional) / text file

### Output Data (true 3D values)

- Head orientation (6DOF), Eye position, Eye gaze, Pupil diameter, Saccades, Fixations, Blinks, Eyelid opening etc.
- Quality values
- Data for left and right eye

**Tracking Recovery Time**

Typ. 1 frame (16/8ms)

**Eyewear Compatibility**

Glasses, contact lenses and non-IR-blocking sunglasses

**Gaze Calibration**

Flexible number of calibration points for precision gaze or calibration free gaze

**Light Independent**

Smart Eye Pro uses active IR illumination @ 850nm

**Synch Available with Other Systems**

Smart Eye Pro cameras can be synched with other Smart Eye Pro systems or other types optical systems. Both optical and electrical signals can be used for synchronization

**Integration Support**

API for controlling the eye tracker remotely. SDK with documentation and examples to support integration of eye tracking capability into other products and applications.

## Smart Eye Pro Technical Specifications

Smart Eye Pro features are available at a compact size, small footprint and light weight in the state of the art camera, the Smart Eye Pro Dx.

In addition, the high resolution of the camera sensor enables a larger head box.

All this ensures superior data availability and a short setup and configuration time.

**Sampling rate**

60 and 120 Hz

**Number of cameras**

Up to 8 cam

**Headbox**

Up to 120x85cm

**Camera interface**

USB3

**Camera size**

17x31x31mm

**Camera weight**

20g

**Resolution**

2,3 MP

**Mounting kit (parts)**

Small form factor (3 DOF)

**Size of applicable flashes**

27x13x27mm

**Lenses (focal length)**

6, 8, 12, 16, 25mm

**Maximum available cable length**

8m (50m)



**Contact us:**  
[smarteye.ai/contact](https://smarteye.ai/contact)