Smart Eye Pro

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.

General Specifications and features for Smart Eye Pro

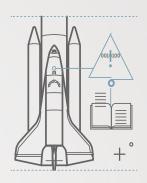|	
Free placements of cameras	Smart Eye Pro is a flexible system where cameras are located based on customer setup
Optimal Camera – Eye Distance	30 – 300 cm, adjustable with lenses and positioning of cameras.
Field of view	90° - 360° (depending on number of cameras)
Tracking Accuracy	Head: Rotation 0.5 degrees (under ideal conditions) Gaze: 0.5 degrees (under ideal conditions)
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
Recovery Time (Blink/Tracking Lost)	Typ. 1 frame (16/8ms)
Eyewear Compatibility	Glasses, contact lenses and non-IR-blocking sunglasses
Gaze Calibration	Flexible number of calibration points
Light independent	Smart Eye Pro uses active IR illumination @ 850mm
Possible to synch 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	Remote control over ethernet and programming guide to support integrations for example analysis tools, simulators etc

Unique specifications and features of Smart Eye Pro cameras

Smart Eye Pro is available with a state of the art camera, the Smart Eye Pro Dx. It gives you Smart Eye Pro's well-known features at a compact size, small footprint and light weight. In addition the high resolution of the camera sensor enables a large headbox. All this ensures superior data availability and a short setup and configuration time.

	SMART EYE PRO
Sampling rate	60 and 120 Hz
Number of cameras	Up to 8 cam
Headbox:	Up to 120x85 cm
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, 25
Maximum available cable length	8m (50m)

*   Requires additional hardware

www.smarteye.se

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