



Smart Eye Pro | Smart Eye Pro Dx

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.

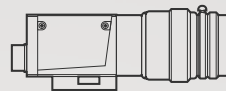
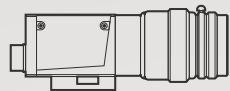
This versatility, combined with stellar performance in all conditions, is why Smart Eye Pro is the preferred research partner for car and flight simulators, vehicle studies, multi-screen or control room environments, long range tracking, mobiles, tablets and single screens around the world.

General Specifications and features for Smart Eye Pro Cameras

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
Calibration Mode	Flexible number of calibration points
Light independent	Smart Eye Pro uses active IR illumination @ 850nm
Possible to synch with other systems	It is possible to sync or de-synch Smart Eye Pro compared to other systems, for example if you want to use more than one system in the same room
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 three different types of cameras. Our newest addition is Smart Eye Pro Dx. It gives you not only Smart Eye Pro's well-known features at a more compact size, smaller footprint and lighter weight, but also enhanced resolution, a larger headbox to ensure data availability and reduced setup and configuration time.



	SMART EYE PRO 0.3MP	SMART EYE PRO 1.3MP	SMART EYE PRO Dx
Sampling rate	60 and 120Hz	60 and 120Hz	60 and 120Hz
Number of cameras	Up to 6 cam (120Hz) Up to 8 cam (60Hz)	Up to 6 cam Both 60 and 120Hz	Up to 6 cam (Desktop) Up to 4 cam (Laptop)
Head box (Freedom of head movement)	Up to 50x40cm	Up to 90x75cm	Up to 110x85cm
Camera interface	Ethernet	Ethernet (60Hz) USB3 (120Hz)	USB3
Camera size	109x28x28mm	109x28x28mm	17x31x31mm
Camera weight	90g	80g	20g
Resolution	0.3MP	1.3MP	2MP
Mounting kit (parts)	Triangle foot	Triangle foot	Small form factor 3 DOF
Size of applicable flashes	30x30x30mm	30x30x30mm	19x14x28mm
Lenses (focal length)	4.5, 6, 8, 12, 16, 25	4.5, 6, 8, 12, 16	8, 12, 16
Maximum available cable length*	10m	10/8m	8m

*Cable length up to 60 m is possible with additional hardware

