

Light-weight eye tracking system

ViewTracker3



ViewTracker3 is the new eye tracking measurement system with light-weight headset that adopted USB3.0 for its interface. Three small digital cameras are mounted, and the data of the field of vision and the movement of pupils of both eyes are obtained. The gaze data will be measured in real time. Captured images can be transported and saved to Windows machines by USB 3.0 cable. AC adapter is not required for the system, and thus compatible with measurement with mobile. Small pupil cameras allow the eye tracking measurement for the downward gaze, and the posture and the position of the cameras can be flexible. For a user wearing glasses, this headset can be wearable under their own glasses and corrective glass is not necessary. For calibration, the application will automatically identify the extraction status.

Application examples

【Eye movement while driving】
Head mount type system allows the free movement of the gaze in the space.



【Experts vs Amateur】
Gaze measurement of experts is useful to educate beginners for quality management.



【Psychology, Academic, TV】
Eye movement measurement can be used in psychological research.

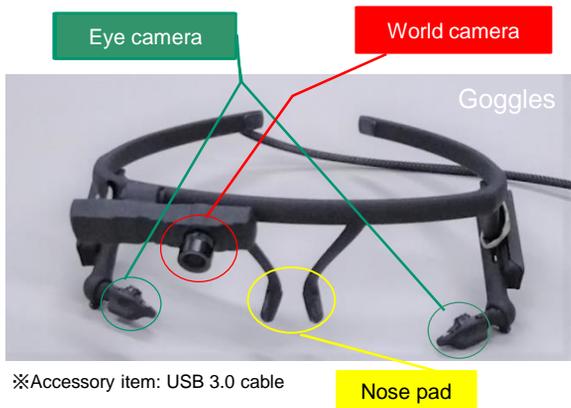


※Wearable with a helmet



※With safety glasses

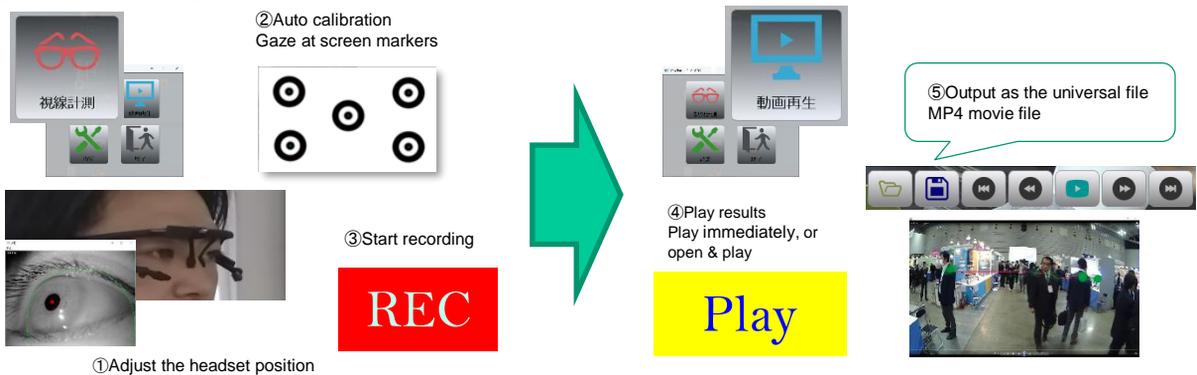
ViewTracker3 System Configuration



Product features

- Light-weight headset based on ergonomics (less than 50g, cable excluded)
- Binocular measurement, 120Hz sampling (200Hz max., progressive camera)
- Operate with USB 3.0 bus power from PC. No AC adapter necessary. Available for measurement with mobile.
- Optimal structure to fit user's face well for even downward gaze and a user with glasses. No corrective glass necessary.
- Robust calibration completed in a short time (auto mode, point specification mode)
- Real time data output and wired transfer without data loss
- All you have to do is adjust the camera position to capture pupils. Application will detect pupils automatically.
- Available for 3D measurement mode by intersection search of both eyes
- Data will be saved as light MP4 files
- "Interchangeable magnifying lens" as an accessory to obtain fine tracking data for inspection etc.
- USB 3.0 cables can be extended up to 5m (optional)

Operation steps



Specification

World Camera	1,280×720dot 30Hz	Interface	USB3.0
Eye Camera (2ch)	400×400 dot 120Hz	OS	Windows10 64bit
Cable length	Standard 2m (Optional 5m)	Headset weight	Less than 50g
Movie file	MP4 (Compression rate, two options)	Image setting	White balance, Exposure time

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