

ERGONEERS
FROM SCIENCE TO INNOVATION

5

4

3

2

1

DIKABLIS PROFESSIONAL

**HARDWARE
DEVELOPMENT
KIT**

// Integrating the Dikablis eye tracking technology in helmets, goggles and headgear offers new insights into the glance behavior of people who are focused while moving in a complex environment and make quick decisions on actions (eg athletes, pilots or security forces such as police or fire department).



INTEGRATION OF DIKABLIS EYE TRACKING TECHNOLOGY



HARDWARE DEVELOPMENT KIT

The Dikablis Eye Tracking Hardware Development Kit (HDK) allows the integration of Dikablis eye tracking technology in an environment where space is too limited to use a standard eye tracker.

Due to the remarkably small size of the eye cameras the HDK can be installed in almost any head mounted equipment such as helmets, head mounted displays, ski goggles, but also in devices such as microscopes, rifle scopes, etc. This enables eye tracking in environments where it seemed to be impossible. The areas of applications range from pilot trainings to sports, right up to medicine and research.

TECH SPECS AT A GLANCE

- Field (scene) camera resolution: 1920 x 1080 pixels
- Field (scene) camera tracking frequency: 30 Hz, color
- Field camera aperture angle: 40° - 90°
- Eye camera resolution(s): 648 x 488 Pixel
- Eye camera tracking frequency(s): 60Hz, monochrome
- Size of eye camera(s): Ø 12 mm x 18 mm
- Including D-Lab Eye Tracking Head Mounted Essential or D-Lab Virtual Reality Essential



VARIANTS

The Dikablis HDK can be configured in a flexible way. It is available in different options and things like cable length or number and size of eye cams can be chosen to perfectly fit with the application. That offers various options to the technical integration for diverse applications.

The HDK is suitable for gaze interactions in real and virtual environments. It is connected via plug & play to a computer that runs the Ergoneers measurement and analysis software D-Lab.



The Hardware Development Kit comes with a free copy of our comprehensive software package D-Lab Eye Tracking Head Mounted and D-Lab Virtual Reality Essential. This software makes our high-end eye tracker a plug & play solution and enables researchers to plan, measure and analyze their studies in an effective and easy way. D-Lab can be upgraded for more functions to the Professional or Enterprise version. Additional modules for other sensors are available too.

