

DRIVER MONITORING SYSTEM

HIL - INTEGRATION



The unlimited number and complexity of driving situations requires new simulation technology that starts at the sensor. Together with our customers, we develop tailor-made simulation solutions and safeguard sensor technology in realistic 3D environments.

THE CHALLENGES IN THE CURRENT SCENARIO:

- Time-consuming training, verification and validation due to iterative simulation of realistic human behavior
- Immense amount of labeled data sets required
- Comprehensive coverage of all possible cases
- Execution in real time

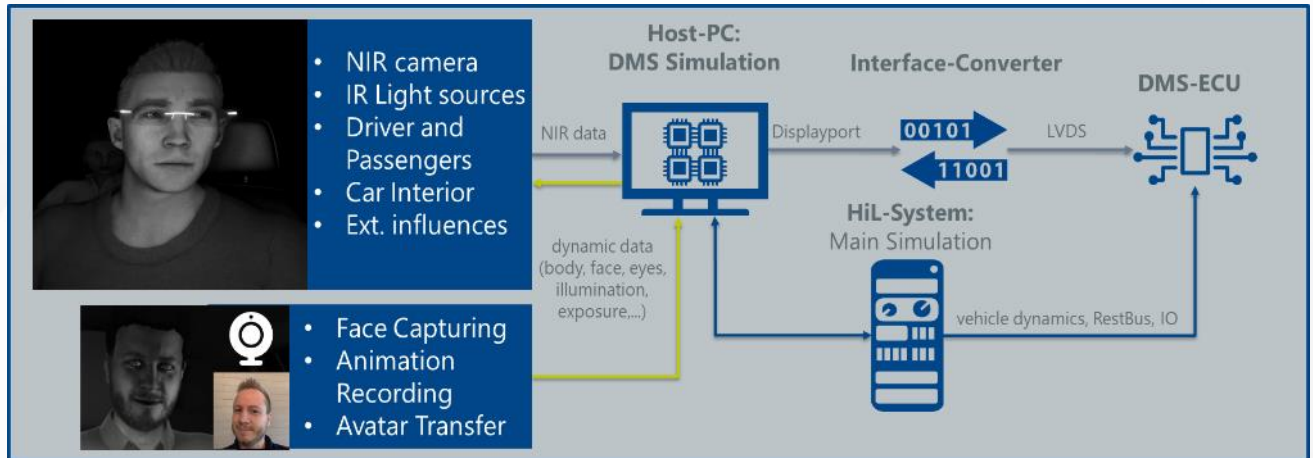
OUR IVESS SOLUTIONS - YOUR INDIVIDUALIZATION

The iVESS framework enables you to realize any scenario.

- Our approach is not product-based, but can be customized and integrated into the existing workflow of your toolchain.
- You receive a customized simulation, even as a whitebox solution on request.
- From simulation and HiL applications to the classic validation of test scenarios: the potential of our iVESS framework adapts to your individual needs!

DRIVER MONITORING SYSTEM

HIL - INTEGRATION



SOLUTION

Our solution includes an environment simulation with visualization of the interior view of vehicles. This is complemented by complex avatars equipped with multiple materials and precise body/face animations. This is complemented by a sensor simulation that uses a physical infrared sensor model to enable realistic and accurate data capture.



BENEFITS

Our solution significantly optimizes the development and testing process. It provides valuable basic information for algorithm evaluation so that developers can make well-founded decisions. Thanks to the transferable facial animations, it is possible to use different avatars flexibly and efficiently. In addition, integration with Hardware-in-the-Loop (HiL), Software-in-the-Loop (SiL) and Model-in-the-Loop (MiL) enables a seamless connection between development and testing, significantly improving the validation of algorithms under realistic conditions.



WHAT MAKES US SPECIAL

We act as a reliable and long-term partner by creating customized system and software solutions in accordance with legal requirements. We fully transfer IP rights and source codes to our customers. We are platform-independent and use state-of-the-art technologies and development methods.

