
New partnership with 3D expert UNIGINE allows for photorealistic visualizations in the simulation solution CarMaker

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Since May of this year, IPG Automotive has been cooperating with the company UNIGINE. The cooperation with UNIGINE, a company specialized in visualization of projects in real-time 3D, enables the combination of high visual quality with professional simulation and training functions of the CarMaker product family.

The integration of the new UNIGINE 2 rendering engine in the successor of the 3D visualization tool IPGMovie, MovieNX, enables visually even more impressive and technically advanced test scenarios. “We are very pleased to cooperate with UNIGINE, our new partner for visualization”, states Steffen Schmidt, Managing Director at IPG Automotive. “The new MovieNX emphasizes our goal: creating a digital model of the real test drive in a highly realistic and reproducible way. It is our response to the ever-growing validation efforts necessary in vehicle development, especially in the area of autonomous driving.”

With these photorealistic 3D visualizations, simulating virtual scenarios in high resolution becomes a reality. Special weather and lighting conditions such as fog, a low sun in the sky, reflections or artificial light in the dark can be simulated in real-time and HDR. As MovieNX becomes a regular feature of the CarMaker product family, OEMs and suppliers can test camera-based advanced driver assistance systems and automated driving functions at a whole new level, as well as train and validate algorithms based on artificial intelligence. Thanks to the openness and seamlessness of the CarMaker product family, entire camera systems can easily be integrated and reproducible tests of autonomous driving scenarios performed via corresponding interfaces.

“IPG Automotive has identified a requirement to complement the virtual test driving product line with high-quality real-time 3D visualization, and we are pleased to aid them with the UNIGINE 2 Sim platform. It should be noted that the use of photorealistic and physically correct 3D visualization is especially important in light of the latest trends in the automotive industry - the development of advanced driver-assistance systems (ADAS) and autonomous vehicles,” said Denis Shergin, founder and CEO of UNIGINE.



Image: With the integration of the UNIGINE 2 rendering engine, photorealistic visualizations in MovieNX enable even more visually impressive and technically advanced test scenarios.

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About IPG Automotive GmbH

As a global leader in virtual test driving technology, IPG Automotive develops innovative simulation solutions for vehicle development. Designed for seamless use, the software and hardware products can be applied throughout the entire development process, from proof-of-concept to validation and release. The company's virtual prototyping technology facilitates the automotive systems engineering approach, allowing users to develop and test new systems in a virtual whole vehicle.

IPG Automotive is an expert in the field of virtual development methods for the application areas of Autonomous Vehicles, ADAS, Powertrain and Vehicle Dynamics, committed to providing support to master the growing complexity in these domains. Together with its international clients and partners, the company is pioneering simulation technology that is increasing the efficiency of development processes.

By taking real test driving into the virtual world as a complement to on-road testing, IPG Automotive contributes significantly to technical progress and shares in shaping the mobility of tomorrow with regard to comfort, safety, economic efficiency and environmental friendliness.

In addition to the company headquarters in Karlsruhe, Germany, IPG Automotive provides innovative development services to its customers and partners at the national offices in Braunschweig, Frankfurt and Munich as well as in China, France, Japan, Korea, Sweden, the UK and the USA.

Further information at www.ipg-automotive.com

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