

IPG Automotive Releases Version 6.0 of the CarMaker Product Family

Simulation software with new functionalities for virtual test driving

IPG Automotive, the manufacturer of software and hardware solutions for the automotive and supply industries, is offering a wide range of new features for virtual test driving with the release 6.0 of its CarMaker, TruckMaker and MotorcycleMaker simulation solutions. The Karlsruhe-based company has revamped its products, in particular for the development and testing of advanced driver assistance systems and automated driving functions. With a tool for generating scenarios and detailed sensor models, the release 6.0 sets new standards in this area. Featuring numerous other functionalities, including an optimized traffic model and new 3D objects, IPG Automotive continues to support users in satisfying the current industry requirements through the use of virtual test driving.

Karlsruhe, April 27, 2017 – With its CarMaker, TruckMaker and MotorcycleMaker simulation software, IPG Automotive provides innovative solutions which allow systems to be developed and tested in the whole vehicle using realistic virtual scenarios. This is essential for mastering the complexity of vehicle development. Designed as open integration and testing platforms, the simulation solutions enable customers to save time and costs through the continuous development process from model-, software- and hardware-in-the-loop, all the way to vehicle-in-the-loop.

Realistic vehicle environment modeling for virtual test driving

Modeling complex traffic scenarios plays a crucial role in virtual test driving, particularly in the areas of driver assistance and automated driving. With the Scenario Editor, the CarMaker product family release 6.0 now includes a high-performance tool for quickly and efficiently generating detailed scenarios. This makes it easier to manually create and configure such scenarios, as well as to edit imported existing streets from real-world map or measuring data.

In addition to this, CarMaker 6.0 boasts an extensive collection of sensor models to suit users' individual requirements. These range from the ideal sensor model for concept studies and general functional tests, to physical models for developing sensor components and algorithms. Users also benefit from an improved, realistic virtual traffic environment, where traffic models based on physical data move autonomously and accurately on the virtual tracks. The measured trajectories of all road users can be imported into the simulation and varied. In addition to this, the new version of the CarMaker product family features a wide range of animated objects, such as pedestrians, animals or balls, for realistically simulating different scenarios. Furthermore, the simulation software from IPG Automotive rounds off the complete Euro NCAP Test Ware Package for testing advanced driver assistance systems in accordance with the Euro NCAP protocols.

A diverse range of innovations for virtual test driving

The release 6.0 now provides customers with access to an extensive library of new 3D objects, from vehicles and buildings to infrastructure objects such as bus stops or street lights, in the 3D visualization tool IPGMovie. A camera model for rectilinear lenses and an optimized model for fisheye lenses are also available. In addition, IPG Automotive has expanded the range of tire models in the CarMaker product family to include the MF-Tyre/MF-Swift from TASS International. Version 6.0 also has new features in store for CarMaker/HIL users: the complete CarMaker environment can now be used in combination with the current SCALEXIO hardware from dSPACE.

With these and many other new features in version 6.0, the solution provider IPG Automotive offers its customers a highly efficient tool for virtual test driving in every phase of the development process, therefore enabling comprehensive testing long before a real-life prototype exists.



Image: IPG Automotive provides a wealth of new features for virtual test driving with the release 6.0 of its CarMaker product family.

About IPG Automotive GmbH

As an innovation driver for virtual test driving, the company is a leading global provider of software and hardware products for the automotive and supplier industry. With the areas Simulation Software, Real-time Hardware, Test Systems and Engineering Services, IPG Automotive supports its customers in creating innovations and shaping their development process efficiently.

The innovative solutions CarMaker, TruckMaker, and MotorcycleMaker, as open integration and test platforms, facilitate great savings in time and cost for customers, in a continuous development process of Model-, Software- and Hardware-in-the-Loop, all the way to the Vehicle-in-the-Loop method. The application ranges from the vehicle dynamics simulation, developing and testing of chassis control systems, to interconnected systems such as chassis, powertrain and steering to analyses with regard to e-mobility and hybrid technologies. IPG Automotive is also a leading provider of pioneering solutions for the integration and testing of advanced driver assistance systems.

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