ADVANCE DRIVER ASSISTANCE SYSTEM

Testing and Validation

DRIVERLESS TESTING - AB Dynamics

AUTONOMOUS VEHICLE TRACK TESTING SYSTEMS

Driverless testing is used by ABD customers around the world to perform tests where there is a risk of injury to a human test driver. Application includes aggressive vehicle dynamics testing, ADAS development, vehicle mis-use testing and durability.

The Driverless Test System can be specified with any of ABD's range of Steering robots, together with the combined brake and accelerator robot (CBAR). The Gear Robot and Clutch Robot can be added for use in vehicles with manual gear shift or to operate sequential automatic gearshift.

These devices have been designed to be used either as standalone devices or in combination with one another to allow more complex tests to be performed, such as braking in a bend, braking during a lane change maneuver or throttle-on throttle-off whilst cornering.

By combining the path-following technology with the Brake and Accelerator robots, it is now also possible to perform tests without a driver in the vehicle where the risk for the driver would be high or where the testing condition is arduous for the driver.

RT-Range- OxTS

AN INTRODUCTION TO OxTS COMPREHENSIVE ADAS TESTING SOLUTION

The **RT-Range** is a powerful system that has been designed to work in conjunction with our GNSS-aided inertial navigation products. Its main function is to produce real-time distance measurements between itself and other objects such as cars, pedestrians or lane markings. Those measurements can then be used to monitor things like time to collision, relative position or even visibility. The system is used extensively in the automotive industry for the test and validation of ADAS technology, but has many other applications.

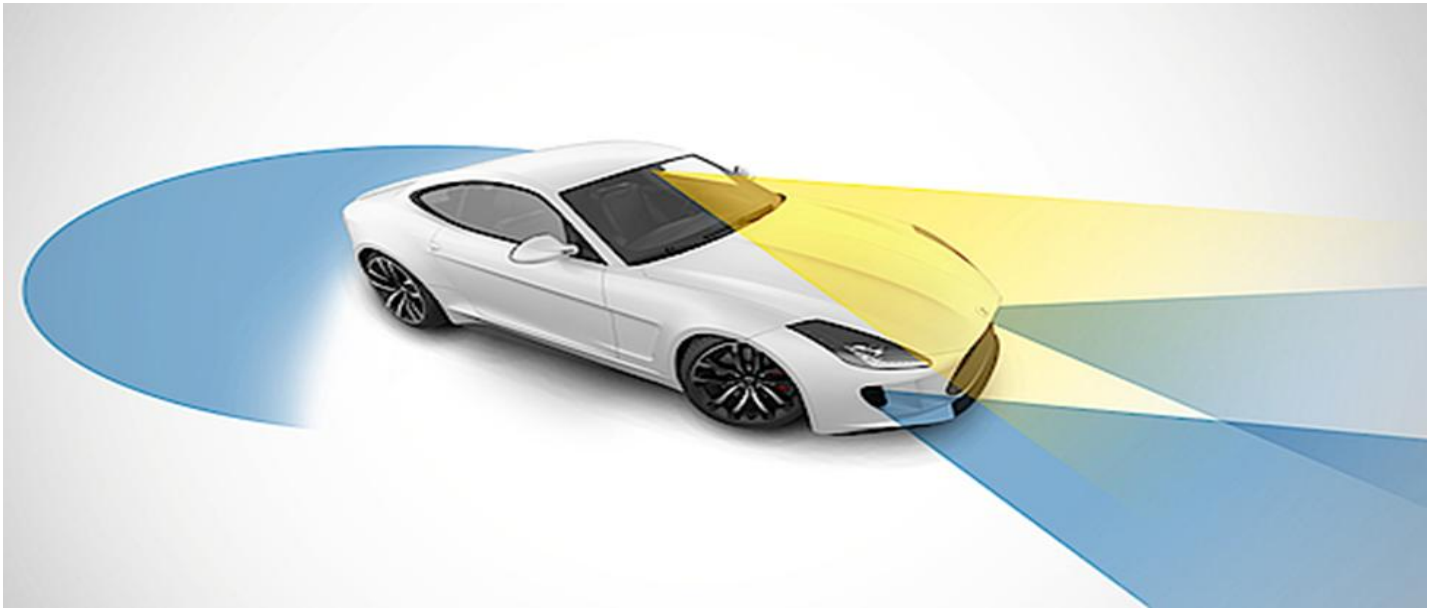
The **inMOTIONx** is a small and lightweight GNSS-aided inertial navigation system for use in automotive applications where space and weight are limited. It gives tactical grade IMU—0.15° slip angle accuracy at 50 km/h. 2 cm position accuracy.

The **RT1003** is a compact new dual antenna product for space constrained ADAS applications such as VRU tests and low-profile robotic vehicles.

VIL Systems- IPG Automotive

Connecting Real-World and Virtual Test Drives with Ease

Our vehicle-in-the-loop technology helps you bridge the gap between HIL tests and real-world test driving. This technology involves having a test driver in a real vehicle maneuver around an open space, while test scenarios are virtually transmitted to the driver via a display. By embedding real components in the virtual environment, you can perform realistic tests – and at the same time, your test scenarios can be reproduced and automated as you please.



ADAS IN THE DARK TESTING

MoshonData is launching a new, unique 300ft (91m) long tunnel for testing ADAS sensors in the dark. Exclusively available from MoshonData, the night vision tunnel provides interior light blocking to assist with the development of night vision assist technology. The tunnel comes in six 50' long connecting sections, five emergency exits/exit lights every 50' and three 5000 CFM exhaust fans to clear the air after every run through. The tunnel is suitable for AEB and VRU tests.