

MESSRING presents mobile weather simulation for ADAS testing

The newly developed SprayMaker is designed to simulate the influence of rain and dispersed surface water on ADAS vehicle sensors / The mobile applicable system is compatible to all standard passenger cars as well as Euro NCAP and NHTSA vehicle targets

Munich, 21. Feb. 2020 - The safety of autonomous vehicles and driver assistance systems is closely linked to the performance of the sensors used. The driving assistants are dependent on the accurate recording of the environment. The weather has the greatest disturbing influence on the environmental measurement via camera, radar and lidar. Using the SprayMaker from MESSRING, a realistic and reproducible rainy weather situation can be simulated during driving to test ADAS sensors.

Simple testing with MESSRING SprayMaker

The SprayMaker is easy and fast to mount on almost any vehicle - including the Euro NCAP and NHTSA Vehicle Targets - with a belt. The water nozzles thus attached to the rear and side of the car are connected to two 100l water tanks strapped to the seats of the car via a hose and pump system. The SprayMaker is switched on and off with the supplied remote control. Two water nozzle kits are available, which allow different flow rates of 1l/min or 2l/min per nozzle. With a total of twelve nozzles, a continuous spray of eight or 16 minutes can be generated. Depending on the choice of nozzle, the carrier vehicle equipped with the SprayMaker sprays either a fine spray mist or a stronger spray cloud. The sensors are influenced by the water on the sensor surface and at the same time, the spray mist itself makes it difficult to detect the rear of the vehicle and the surrounding area.

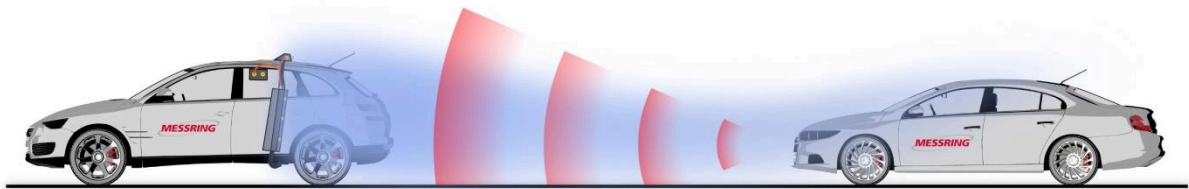


Illustration: MESSRING SprayMaker in operation with carrier and test vehicle. © MESSRING GmbH

Challenge Active Safety Testing

"We have discovered that the future systems of active safety such as object detection, pedestrian protection, accident detection and others can be severely limited by the weather-related performance of the sensors", says Dr. Igor Doric, Managing Director of MESSRING Active Safety GmbH and explains "For the further development of the sensors and thus the future active safety of vehicles the SprayMaker now offers an effective test tool for all suppliers and developers of sensors and driver assistance systems".

Video:

A presentation video of the MESSRING SprayMaker in action can be found under the following link:

<https://www.youtube.com/watch?v=WnNPRNIbLvQ>

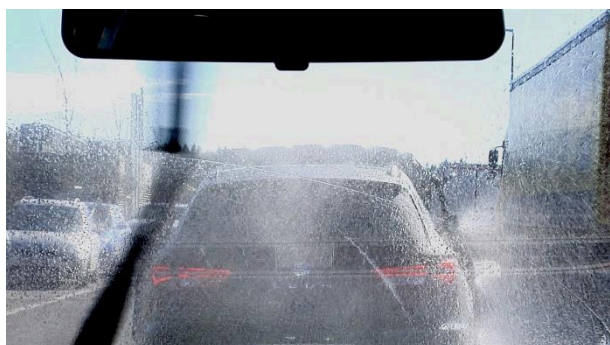
Images:



Illustration: Test with train target (EVT or SSV) with rain simulation until collision occurrence



Test drive with activated SprayMaker © MESSRING GmbH



View from the interior of the vehicle under test to the carrier vehicle © MESSRING GmbH



Close-up of the mounted SprayMaker © MESSRING GmbH

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About MESSRING:

MESSRING GmbH is the world market leader for crash test technology. Innovative products and specialized expertise are the foundation of MESSRING's long-standing success. Based in the southwest of Munich, the mid-sized company's product offerings range from the realization of large, turnkey and multifunctional crash test facilities to the delivery of compact crash simulation test systems. In close cooperation with automotive engineers and manufacturers, MESSRING develops application specific solutions that enable the automotive industry to test their active and passive vehicle safety systems. With more than 130 employees and over 120 crash and sled test facilities installed worldwide, MESSRING has been contributing to making traffic and transportation safer for over 50 years.

As a pioneer in the field of passive safety, MESSRING has set itself the goal of also playing a leading role in active safety. For this reason, MESSRING Active Safety GmbH was founded in 2018, whose core competence is in the development of test systems for driver assistance systems and autonomous vehicles.

Further information can be found at www.messring.de.

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