

MESSRING presents new target to increase the safety of personal light electric vehicles on the road

New target for tests of advanced driver assistance systems and autonomous driving functions / ASTERA E-Scooter mimics female road users on an electric scooter

Munich/Ingolstadt, 21. Jan. 2021 - High diversity in road traffic demands a great variety of tests for the validation of safety systems. With ASTERA E-Scooter, MESSRING presents another cornerstone for variable and diversified tests with so-called Vulnerable Road Users (VRU). Electric scooters, which belong to the category of Personal Light Electric Vehicles, represent a new group of road users with altered behavior compared to non-electric personal mobility devices. The target realistically replicates a woman on an electric scooter in terms of shape and sensor signature and is suitable for numerous test scenarios.

The target consists of two parts, the scooter and the female dummy mounted on top of it. At 1.66 m, the dummy corresponds to the average body height (P50 median) of 16 to 18-year-old girls (according to the Robert Koch Institute, as of 2013) and the average body height of the total female population in Germany (German Federal Statistical Office as of 2017). The target is compatible according to ISO19206 with common motion platforms such as the NCAP belt system, the ABD Launchpad Mini, the Humanetics UFO nano as well as the MESSRING 6D Target Mover. The low-contrast black and gray outer cover provides challenging test conditions for camera sensors and detection algorithms.

"Automated driving and driver assistance systems face a highly complex challenge when participating in road traffic. Validated, realistic testing tools such as the ASTERA E-Scooter Target enable the simulation of reality in its diversity on the proving ground and help vehicle developers to ensure more safety on the road," states Dr. Igor Doric, Executive Director of MESSRING Active Safety 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.

Press contact:

MESSRING GmbH

Alex Kiendl

PR- und Content-Manager

☎ +49 (0)8153 40796-536

✉ press@messring.de