



DEWESoft®

C A S E S T U D I E S



AEB TEST

INTRODUCTION

Our customer, a new manufacturer of Electric Vehicles, wants to validate the performance of ADAS functions of their products.

We did the AEB test according to the GB/T 33577-2017 standard. We did the tests below due to time and test field.

- Record the AEB's commands via CAN & video and display them live during testing
- Constantly measure the distance between subject Vehicle and the target vehicle
- Stationary POV test. This test evaluates the ability of the FCW function to detect a stopped lead vehicle. In order to pass the test, the FCW alert must be issued when the time-to-collision (TTC) is at least 2.1 seconds.



Subject Vehicle with DS-IMU2



Front Vehicle with DS-VGPS-HSC

MEASUREMENT SETUP

DATA ACQUISITION SYSTEM

- DEWE-43-A

- R2DB (works as RTK station)

SENSORS AND TRANSDUCERS

- DS-VGPS-HSC
- DS-IMU2
- DS-WIFI2
- Logitech C920 cameras (3x)

SOFTWARE

- Dewesoft X2 SP10 Polygon plugin

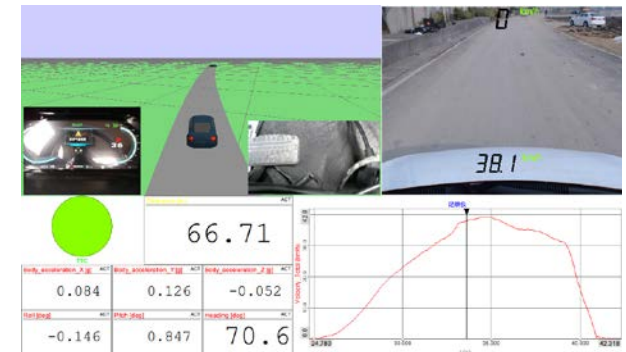
AEB TEST SETUP

We need to setup CAN, video, DS-IMU2 and DS-VGPS-HSC in Dewesoft. We also need to configure the Subject vehicle, the Front vehicle and the route in the Polygon plugin. Clearance and TTC can be calculated by polygon and math function.

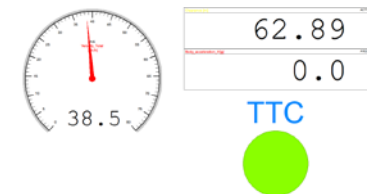


MEASUREMENT/ANALYSIS

When the customer did the test, he could see important parameters (velocity, clearance, TTC and so on) online clearly.

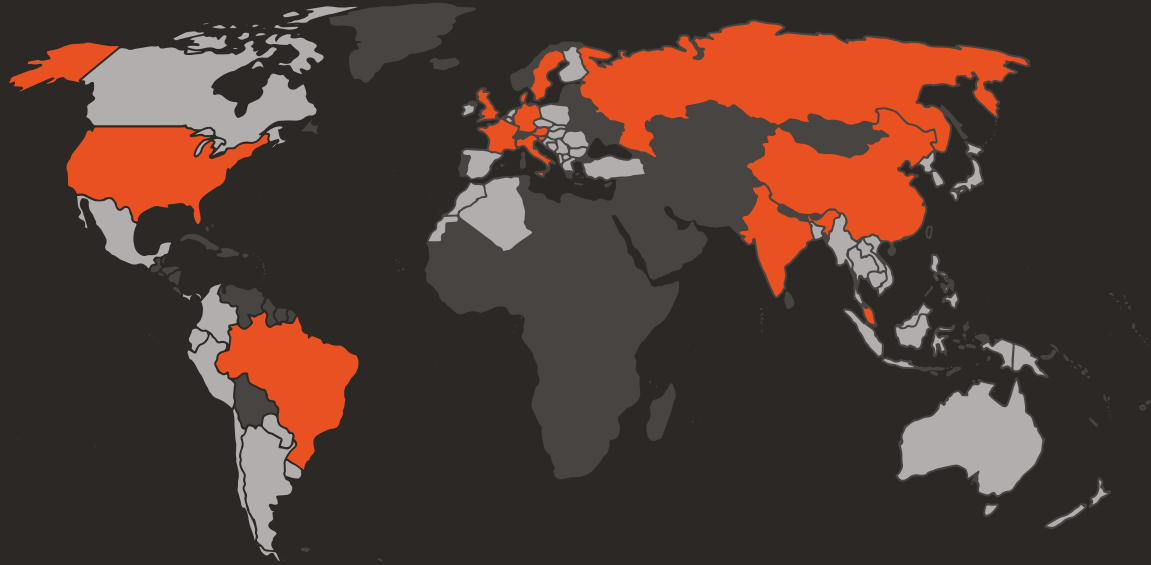


When the customer finished the test, he was able to see more details. Everything is recorded synchronously.



CONCLUSION

The whole measurement took less than one day. We installed all the devices and sensors in the morning. The real tests were performed in the afternoon. The customer's Electric Vehicle could pass the test, but we couldn't get all AEB data from the CAN port, because the manufacturer doesn't output all parameters. The customer is satisfied with fast installation, easy setup and powerful online data processing.



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