

# EURO NCAP ADAS SUITE

By Humanetics



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*For over 65 years, Humanetics has been dedicated to continuous growth in occupant safety testing and measurement for the advancement of safer vehicles, and will continue to do so through outstanding customer focus and innovative designs to ultimately make the world safer by saving lives.*

To further support customers with Advanced Driver Assistance Systems (ADAS) testing, we now offer a **complete, one-stop solution for Euro NCAP ADAS test protocols.**

The customer-oriented **Euro NCAP ADAS Suite** will consist of the necessary hardware, as well as correlating software to complete your ADAS testing needs with ease.

## EURO NCAP ADAS SUITE BY HUMANETICS



DRIVING ROBOT

DATA ANALYSIS

UFO ROBOT PLATFORM

This **comprehensive prepackaged solution** is intended to simplify and streamline your future ADAS test procedures while **saving time and cost.** The Euro NCAP designated Suite includes the Ultra Flat Overrunable (**UFO**) robot platform, the complementary **self-driving robot**, and the **AVL assessment tool.**

Humanetics is committed to further improve efficiency, safety and your overall experience with us. If you would like to find out more about the Euro NCAP ADAS Suite, please contact your local sales representative.

# NCAP Test Data Management, Scoring and Reporting by AVL

The NCAP and Homologation active safety test series is quickly expanding its scope of application, due to the growing number of ADAS functions available in new vehicles. As a consequence, an increasing number and complex scenarios has to be tested on the proving ground, which causes a high effort for test organizations.

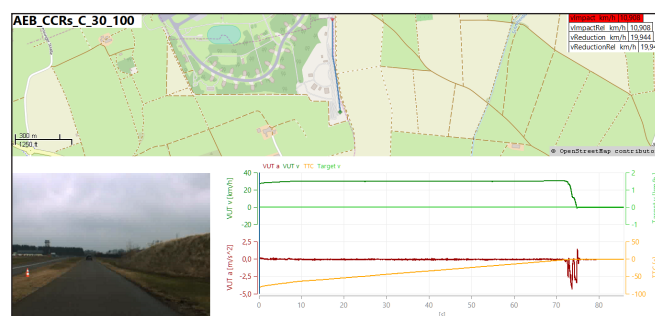
TEST PLANS	
Full Text Search ...	
All	20
Euro NCAP	20
AEB	16
FCW	5
Name	
CPNA-75 Prerequisite Tests	
FCW_CPLA-25	
FCW_CBLA-25	
LKA-DL-Fully-L	
CPNA-75	
CPNA-25 Night	
CBLA-50	
CBNA-50	



AVL has developed a holistic and open toolchain to support NCAP Proving Ground Testing Workflow to master test data quantity and complexity. The AVL NCAP tool supports developers and test operators during *Test Preparation*, *Test Execution*, *Post Processing* and *Reporting*. AVL's industry prove smart mobile solution serves as platform and allows immediate in-vehicle result calculation.

**Offline Test Preparation** is supported by a pre-defined dataset for all NCAP related scenarios, test plans and performance indicators. Scenario selection, such as Autonomous Emergency Braking (AEB) and Lane Keeping Assist (LKA) for EuroNCAP 2018/19, target selection, proving ground specifications and test data mapping is assembled by a few clicks into complete test plans.

**Efficient Test Execution** is achieved by automatic test data import and evaluated which immediately inform the test operator about test boundary violations, test validity and test scoring. Extensive test data analysis and visualisation is executed in real-time without any manual post-processing.

**Standardized Test Reports** together with overall rating for full maneuvers catalogue can be generated automatically or manually after successful proving ground tests execution. The AVL NCAP tool already implements pre-defined and standardized set of NCAP report templates which also can be adapted according to customer requirements.



<div><div><div>FOR SAFER CARS</div><div></div><div>EURO NCAP</div></div><div><div></div><div>Safety Assist</div></div></div>						
AEB Inter-Urban		CCRm				
Prediction	Overlap [%]					
	-50	-75	100	75	50	
Test Speed [km/h]	30	1	1	1	1	1
	35	1	1	1	1	1
	40	1	1	1	1	1
	45	1	1	1	1	1
	50	1	1	1	1	1
	55	1	1	1	1	1
	60	1	1	1	1	1
	65	2	2	2	2	2
	70	2	2	2	2	2
	75	2	2	2	2	2
80	2	2	2	2	2	
Score Test Scenario [%]					69.20	

## Your Value:

- **Efficient** - Designed for fast testing, evaluation and reporting
- **Consistent** - Same functions and workflow for all proving ground tests
- **Flexible** - Definition of custom KPI's, evaluation and reporting
- **Open** - Support for a wide range of file formats and device interfaces
- **Future-Proof** - Prepared for future test scenarios and virtualisation

FOR FURTHER INFORMATION PLEASE VISIT:

[www.avl.com](http://www.avl.com)