



AVL Smart ADAS Analyzer

Boosting your NCAP and homologation testing efficiency

THE CHALLENGE

The NCAP and homologation test series for active safety is rapidly expanding its scope due to the increasing number of Advanced Driver Assistance System (ADAS) functions available in vehicles. As a consequence, a huge number of complex scenarios has to be tested on the proving ground. Efficiency is fundamental to address these challenges.

THE AVL SOLUTION

AVL has developed a holistic and open toolchain to support the workflow for NCAP and active safety testing on the proving ground, mastering test data quantity and complexity. The AVL Smart ADAS Analyzer supports developers and test operators during test preparation, test execution, post-processing, and reporting to execute and validate high rated NCAP results in a very short cycle.

Supported Features:

- Pre-configured test plans for various active safety test series
- Automated import and validation of test data
- Evaluation and visualization of test data
- Detailed test data analysis functions
- NCAP scoring and NCAP standardized report generation

THE ADDED VALUE

- Future proof: always up-to-date databases for rapidly changing test requirements
- Simplicity: workflow optimized user interface for less errors and faster results
- Agility: instant validation and scoring saves time and improves test quality
- Efficiency: sophisticated data-processing core reduces preparation and testing effort
- Integrability: open interfaces and seamless integration into third-party equipment eliminates manual steps and boosts productivity

SOLUTION OVERVIEW

INSTANT TEST VALIDATION AND SCORING – LESS TESTING TIME

AVL Smart ADAS Analyzer supports predefined test plans for all NCAP-related scenarios, test plans and performance indicators by a single click. Test execution data is automatically imported and evaluated, which immediately informs the test operator about test boundary violations, test validity and test scoring.

AUTOMATIC FAILURE DETECTION – FEWER REPEATS

Extensive test data analysis and visualization is executed in real time, without any manual post processing. The avanced signal analysis functions help to identify and correct any test problems and validation failures.

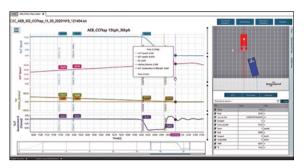
READY TO USE REPORT TEMPLATES – FAST REPORT GENERATION

The NCAP reports, together with an overall rating for full maneuver catalogues, can be generated automatically or manually after a successful proving ground test execution. The AVL Smart ADAS Analyzer already includes a predefined and standardized set of NCAP report templates, which can also be adapted according to customer requirements.

OPEN INTERFACES

The AVL Smart ADAS Analyzer offers a consistent toolchain with open interfaces to be integrated in different environments, such as proving grounds, Hardware-in-the-Loop (HiL), testbeds or simulation, with equipment from different manufacturers.





EURO			Safety Assist CCRm			
AEB Inter-Urban						
Prediction Table		Overlap [%]				
		-50	-75	100	75	50
	30	1	1	1	1	1
	35	1	1	1	1	1
Test Speed [km/h]	40	1	1	1	1	1
	45	1	1	1	1	1
	50	1	1	1	1	1
	55	1	1	1	1	1
Š	60	1	1	1	1	1
ti	65	2	2	2	2	2
F	70	2	2	2	2	2
	75		2	2	2	
	80		2			







FIND OUT MORE

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