

A compact, immersive driver-in-the-loop simulator

Static Driving Simulator (aVDS-S)



The aVDS Static Driving Simulator is a class-leading solution that takes components from AB Dynamics' dynamic simulator to provide cost-efficient way to reduce the cost and time of automotive system development through Driver-in-the-Loop (DiL) simulation.

It is supplied with AB Dynamics software which allows data to be shared between virtual and real-world testing in a seamless manner and precisely correlate results. It contains an integrated flexible interface that works with most vehicle, steering, tyre and sensor model types and industry-leading virtual content from rFpro is provided as standard.

A number of haptic feedback systems are available including active brake pedal, active seat and AB Dynamics' high-fidelity, low cogging, steering force feedback system.



High stiffness driver console



User configurable digital dashboard



Easy sharing and correlation of track and lab data



Wide range of haptic feedback options



Wide range of visual display options



Fully integrated electronics



Compact and easy to install



Industry-leading virtual content from rFpro

Configuration

Display options

Standard visuals are provided by a single simulator-grade ultra high-definition monitor with 144Hz refresh rate suitable for use in daylight conditions. The optional triple screen configuration provides the wrap around visuals which are ideal for ADAS work. Other display options include the use of augmented reality headset or a user specified projection system with screen.



Single screen monitor configuration

Triple screen monitor configuration

Augmented reality headset

D1	Single 64.5" monitor system mounted directly to the aVDS-S chassis
D2	Three 64.5" monitor system with additional graphics PC and rFpro licenses
D3	Projection system
D4	Augmented reality headset

Haptic feedback options

Haptic feedback systems provide increased driver immersion. The following options are available for use with the aVDS-S.

C1	aVDS SR15 active steering force feedback system
C2	aVDS SR30 active steering force feedback system
C3	Active seat for sustained lateral cueing
C4	Active brake pedal monitor configuration

Specifications

Chassis dimensions	1910mm x 620mm
Installed dimensions (single screen)	1973mm x 1448mm
Installed dimensions (triple screen)	3083mm x 1973mm
Chassis mass	<150kg
Power requirements	Single phase 110VAC/240VAC, 4kW supply
aVDS SR15 steering actuator	Peak torque: 35Nm, 15s hold torque: 15Nm. No load maximum speed: 2000°/s

About AB Dynamics

AB Dynamics is a leading global provider of automotive test and verification solutions that facilitate the development of vehicles that are safer, more efficient and sustainable. As part of the AB Dynamics Group of companies we enable customers to develop and test in virtual environments, validate on the track and then evaluate vehicles on public roads.

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SP6118 Issue 3

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