

Versatile VRU test platform

LaunchPad™ 50/60



The LaunchPad 50 and LaunchPad 60 are compact powered platforms designed to carry Vulnerable Road User (VRU) targets for ADAS development and testing. With precise speed control and full path-following capability, the LaunchPad can be used with pedestrian, cyclist and moped dummies. AB Dynamics' advanced Synchro™ control capabilities allows the LaunchPad's motion to be accurately synchronised with the test vehicle and other ADAS targets.



Child pedestrian



Adult pedestrian



Bicycle



Scooter



Motorcycle



Compatible with a range of official Euro NCAP VRU targets



4-wheel-drive 4-wheel-steer for ultimate manoeuvrability



Rapid battery swap system – no need to remove the target



Common software interface with AB Dynamics ADAS platforms and driving robots



Self-propelled path-following platform for total test flexibility



Integrated GNSS inertial navigation unit for 2cm positioning



Ultra low-profile and shallow sloping sides for low radar return and smooth over-run



Heavy duty top panel available for truck and bus testing

Specifications

LaunchPad™ 50

Dimensions	917 x 875 x 65mm
Weight (approx.)	40kg
Weather resistance	Fully sealed electronics, waterproof to IP67
Maximum speed (with target)	50km/h
Maximum acceleration	2.5m/s² (excluding target)
Maximum braking	5m/s² (excluding target)
Payload	Pedestrian, cyclist, motorbike, moped, animal. Maximum 15kg
Batteries	Twin high-capacity LiFePO4 battery packs 400Wh, rapid battery swap system
Drive-over capacity	1000kg per wheel

LaunchPad™ 60

Dimensions	917 x 875 x 65mm
Weight (approx.)	40kg
Weather resistance	Fully sealed electronics, waterproof to IP67
Maximum speed (with target)	60km/h
Maximum acceleration	4m/s² (excluding target)
Maximum braking	6m/s² (excluding target)
Payload	Pedestrian, cyclist, motorbike, moped, animal. Maximum 15kg
Batteries	Twin high-capacity Lithium-ion battery packs 540Wh, rapid battery swap system
Drive-over capacity	1000kg per wheel

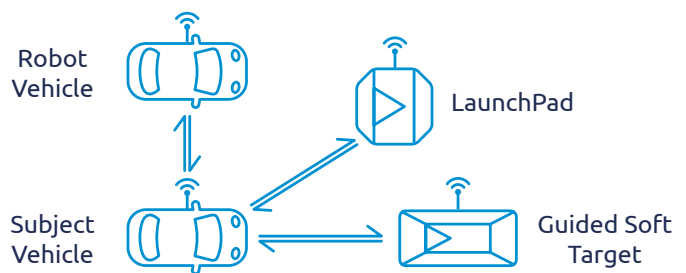
LaunchPad™ 60

With heavy duty top panel fitted

Dimensions	917 x 875 x 75mm
Weight (approx.)	45kg
Weather resistance	Fully sealed electronics, waterproof to IP67
Maximum speed (with target)	60km/h
Maximum acceleration	3.5m/s² (excluding target)
Maximum braking	5m/s² (excluding target)
Payload	Pedestrian, cyclist, motorbike, moped, animal. Maximum 15kg
Batteries	Twin high-capacity Li-ion battery packs 540Wh, rapid battery swap system
Drive-over capacity	3550kg per wheel

Software

At the heart of the LaunchPad platform is a Power Controller running AB Dynamics' industry-standard Robot Controller Software. An onboard TrackFi radio shares position data with other controllers via the Synchro interface. Programming the trajectory of the LaunchPad is simple thanks to the graphical path generation utility. Complex scenarios with multiple moving objects can be created and run quickly and easily.



Synchro Multi-Object Communication

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.

For more information:
www.abdynamics.com
info@abdynamics.com

SP6014 Issue 14

© 2017-2024 AB Dynamics. All rights reserved. AB Dynamics®, Guided Soft Target™, LaunchPad™, Synchro™ and TrackFi™ are trademarks and the property of AB Dynamics plc or its subsidiaries in the United Kingdom and elsewhere. Systems, components, methodologies and software supplied may be the subject of patent and design rights. Whilst this information is provided in good faith, no warranty or representation is given concerning such information, which must not be taken as establishing any contractual or other commitment binding upon AB Dynamics plc or any of its subsidiaries.

