

Compact 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



Adult



Cycle



Moped



Motorbike



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 |

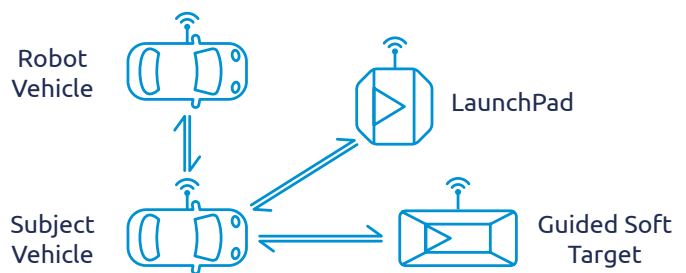
LaunchPad™ 60

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

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