



LaunchPad

Overview

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



Features

- Compatible with a range of official Euro NCAP VRU targets
- Self-propelled path-following platform for total test flexibility
- 4-wheel-drive 4-wheel-steer for ultimate manoeuvrability
- Onboard D-GPS motion pack and Synchro system
- Rapid Battery Swap system via side ramps – no need to remove the target
- Ultra low-profile (65mm)* and shallow sloping sides for low radar return and smooth over-run
- Same familiar software as other AB Dynamics products



Cyclist attachment



Adult dummy



Child dummy

Specifications

	LAUNCHPAD 50	LAUNCHPAD 60	LAUNCHPAD HD WITH HD TOP PANEL FITTED
Dimensions (mm)	917 x 875 x 65	917 x 875 x 65	917 x 875 x 75
Weight (approx.)	40kg	40kg	45kg
Weather resistance	Fully sealed electronics, waterproof to IP67	Fully sealed electronics, waterproof to IP67	Fully sealed electronics, waterproof to IP67
Maximum speed	50km/h	60km/h	50km/h
Max. braking (excluding target)	6m/s ²	6m/s ²	5m/s ²
Payload	Pedestrian, cyclist, motorbike, moped, animal. Maximum 15kg	Pedestrian, cyclist, motorbike, moped, animal. Maximum 15kg	Pedestrian, cyclist, motorbike, moped, animal. Maximum 15kg
Batteries	Twin high-capacity LiFePO4 battery packs 400wh, Rapid Battery Swap system	Twin high-capacity Lithium ion packs 540Wh, Rapid Battery Swap system	Twin high-capacity LiFePO4 battery packs 400Wh, Rapid Battery Swap system
Drive-over capacity	1000kg per wheel	1000kg per wheel	3550kg per wheel

Software

Includes AB Dynamics RC Software, path-following and Synchro interface

At the heart of the LaunchPad platform is a Power controller running AB Dynamics' industry-standard Robot Controller RC Software. An onboard TrackFi radio shares position data with other AB Dynamics 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.

