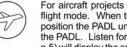


For car projects use the software in car mode. Place the PADL on its side and point it directly at the PowerAnchor approximately 20cm from the car as it moves past. Listen for the 'beep' then start recording. The software (see p.5) will display the speed of the car.



For aircraft projects face the PADL upwards and use the software in flight mode. When the aircraft has reached full and consistent height, position the PADL under its flight path so that the plane wing flies over the PADL. Listen for the 'beep' and start recording. The software (see p.5) will display the speed and height of the aircraft. Planes must fly at a minimum height of 55cm to record height. Planes lower than this are not considered to have achieved full flight.

PADL positioning is important, but if a lap is not recorded (missed) any bad data is filtered out by the data clean function on the software

Planes are given a rating based on speed, height and payload (added weight. Digital scales provided) A rating over 100 is good; over 125 is

Download the PADL software for PC. Connect the PADL to the laptop with USB cable. Open the software, choose port. The software will beep when a data event is detected. When the PADL unit is in position and the software beeps it is ready to start recording the data. Click the green start button and data for each lap is recorded. Note: lap zero does not

The blue data clean function is available once a minimum of quality data has been recorded. When selected, the data clean displays the five most consistent, consecutive laps (removing any anomalous data). Only use cleaned data averages for analysing performance of planes and cars. Height accuracy is ±1.5cm after data clean. Best results are when consistency is over 90%.



Tips:

- For car projects ensure the vehicle is pointing slightly outwards. This will help the car pull the tether cable tight.
- If legs do not all make contact with the ground, gently push the
- PowerAnchor downwards to spread the legs slightly.

 When landing a plane turn the controller off and on repeatedly reducing thrust to come in for a soft landing.
- After use, wind up tether cables carefully to avoid tangling. Store them in separate case compartments.

- Troubleshooting:

 Use the correct hand controller.
- If the vehicle is going backwards switch the cables on the bushes.
- Ensure the cable clips are not touching each other causing a short
- Ensure tether cables are connected to the motor cables and attached to a part of the vehicle.
- Ensure the PowerAnchor is charged.
- Replace hand controller batteries (2 x AAA) as needed.
- If software is not responding then disconnect PADL, close app, reconnect PADL, restart software, refresh ports and select port.

Looking after your PowerAnchor:

- Always turn off after use.
- Do not use while charging.
- If there is excessive build-up between the bushes wipe their contact surfaces with isopropyl alcohol.

 When not in use for extended periods wrap the bushes in
- stretch plastic wrap.
- Ensure PowerAnchor is fully charged after use. This will maintain the life of the battery.
- When removing legs, push them directly outwards without rotating
- Store PowerAnchor in the high impact case.
- Avoid touching the PADL reader. Clean with a soft cloth.

Safety:

Create an exclusion zone around the PowerAnchor when in use to avoid collisions.

Technical

- This product houses a rechargeable Li-ion battery: 12V,78Ah (93.6Wh)
- The PADL uses lidar at wavelength 905nm, 1.5Watts, class A, beam spread 1°.