



ENVIRONMENTS



Racetracks



Ports



Industrial



Airports



Residential



Rural



Motorway



Pegasus captures high-speed, high-accuracy mobile data for both road and airport runway surveying.

Road Science offers high-speed, mobile surveying with the Leica Pegasus Two Ultimate – the only system of its kind in New Zealand. This cutting-edge technology revolutionises road and infrastructure surveying by delivering data with precision, efficiency, and safety.

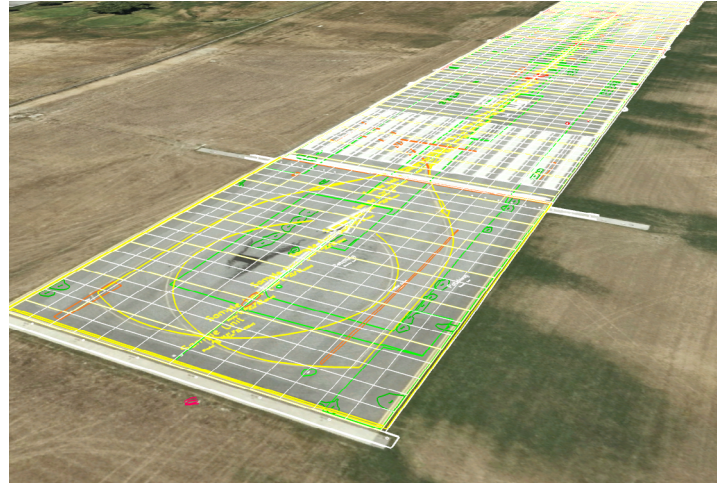
The Pegasus system integrates advanced components including:

- Laser scanning, capturing up to 1 million points per second with sub-centimetre accuracy via its Z&F profiler.
- Six photogrammetric cameras, capturing high-resolution images every 0.5m to 10m.
- Two external cameras dedicated to assessing pavement conditions such as cracking, roughness, and rutting.
- 360° camera coverage for comprehensive analysis of surrounding structures and features.
- An inertial measurement unit (IMU) for accurate geospatial data alignment.

The Pegasus transforms how infrastructure is captured and monitored, offering a fast, reliable, and data-rich solution for surveying projects. Whether for road maintenance, asset management, airport runway testing, or infrastructure planning, the Pegasus delivers the insights needed to make informed decisions with confidence throughout your project.

Benefits

- **Faster** - Rapid, high-volume data collection delivers timely insights
- **Safer** - Surveys are conducted from within the vehicle, keeping personnel out of live lanes
- **Smarter** - Market-leading technology ensures accuracy, quality, and versatility



Images: (left) Pegasus on-site capturing data. (right) Airport runway survey data capture

Industry Specifications

Pegasus road conditioning surveys supply PCI (Pavement crack index) reports to the ASTM International standard.

Location

Pegasus is based in Christchurch, with the ability to survey nationwide.

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Need more information?

At Road Science, we're committed to providing innovative solutions backed by engineering expertise. If you have any questions about this service, need technical guidance, or want to discuss how it fits your specific project needs, our team is here to help. Contact us today for expert advice and tailored support. Contact us via **0800 180 200** or visit our website at **roadscience.co.nz** to learn more.

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