

Laser Scanning for Open Spaces



PDM's mobile scanning system is one of the most versatile LiDAR systems on the market today for the delivery of high density point clouds and colour geo-referenced imagery.

Front Mounted Mobile System



PDM's Mobile Scanning System has been deployed in a wide range of environments. PDM has proven to be able to deliver its clients a high quality product effectively, efficiently and safely.

PDM's commitment to advancements in technology in the field of mobile LiDAR scanning has resulted in process' that allow open spaces and parks to be captured digitally with a high degree of accuracy and detail.

Open Spaces Scanning

Built specifically to address client requirements for speed, accuracy and safety, the PDM Mobile Scanning System is perfectly suited for scanning open spaces, such as parks, nature reserves and roadside nature strips. Able to be deployed on any mobile platform, the systems array of lasers collects thousands of points per second, measuring anything in line of

Ideal For Parks & Recreational Areas

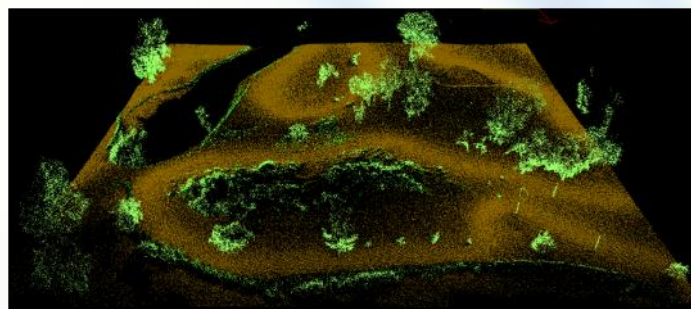


sight within a 100m radius of the vehicle to create a survey-accurate point cloud. 360° image data is simultaneously captured by an array of cameras, producing comprehensive high accuracy data of any area required.

Additionally, PDM's Mobile Scanning System is able to be mounted on the front of our scanning vehicles. This not only gives PDM the ability to better control the conditions of the scans, but allows gravel/dirt heavy environments to be scanned effectively, as conventional rear mounted scanning receives too much interference from rising dust from the vehicles tires.

Increased Safety

In addition to being an extremely powerful measuring tool, mobile laser scanning offers significantly increased levels of safety for operators when compared to conventional surveying as scanning operators work safely within the cab of the vehicle.



High Density Point Clouds

Applications of LiDAR Scan Data

Vegetation Cataloguing | Ground/Surface Modelling

Asset Pickup/Management | Vegetation Encroachment

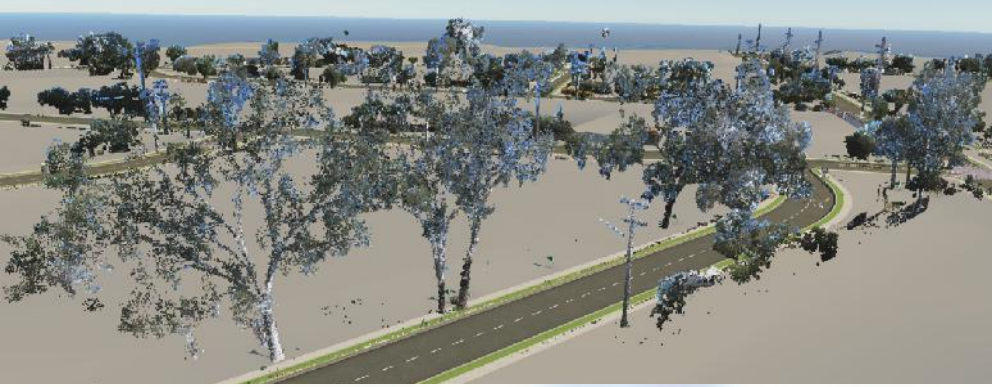
As Built Modelling | GIS/Mapping | Flood Modelling

The field of utilizing LiDAR scan data is constantly evolving, with new applications being realized as the full potential of reality capture is unlocked across a variety of fields—and the PDM Scanning team keeps up to date with these new trends and technologies.

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Scanning System Technical Details

PDM's Mobile Scanning System collects and post processes features into a high order geo-referenced 3D point cloud. The system is comprised of 6 essential components; a Faro Focus 3D scanner (which can be removed and used for scanning of static environments), a Velodyne 32 scanner, GPS Receiver, an Inertial Management Unit (IMU), 7 POD HD Video Cameras and System software. The absolute accuracy of GNSS positioning and the stability of the IMU's gyro and accelerometer measurements are tightly coupled to provide an exceptional 3D navigation solution that is stable and continuously available, even through periods when satellite signals are blocked from vegetation and or structures. The PDM mobile scanning system includes two LiDAR scanning heads:

- The Velodyne 32 is excellent for mapping/asset collection applications due to its wide angle field of view.
- The FARO Focus 3D scanner is a highly accurate survey/engineer quality scanner ideal for ground surfaces.

Both scanners are oriented to cover a wide range of features with a radius up to 100m. High Definition digital cameras provide 360

degree coloured video and still imagery at either fixed distance intervals or video formats. Coloured imagery is GPS time and date stamped and with further post processing can be located to a high order mm x, y, and z accuracy. This data can then be exported to an ever growing number of industry standard GIS and CAD formats.



GIS/Mapping Applications


PDM's Mobile Scanning System is just that, a safe, fast, and flexible system that provides highly accurate 3D point cloud data and coloured imagery for a wide variety of applications.


In addition to a versatile scanning system, PDM's scanning team has a strong background in engineering and modelling. This gives PDM the edge in delivering a product suitable for it's intended task, as there is first hand knowledge in how the data can be utilized in new and existing workflows.




Contact Us

Please contact us if you would like to learn more about PDM's Mobile Scanning System and the output that can be created to suit your needs.

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