

sorbus

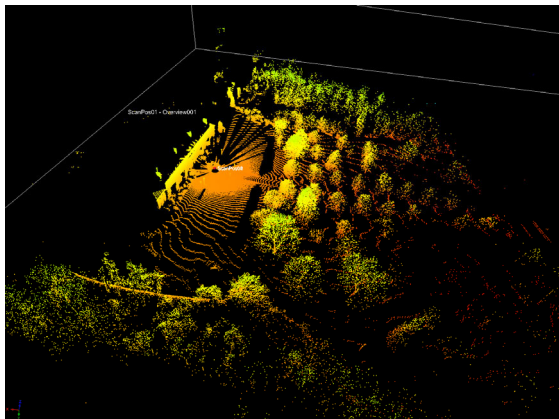
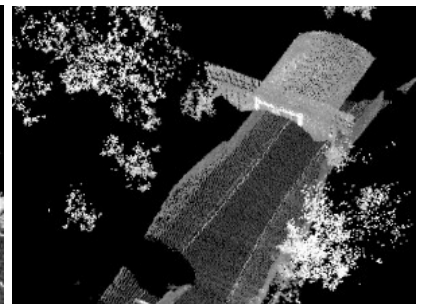
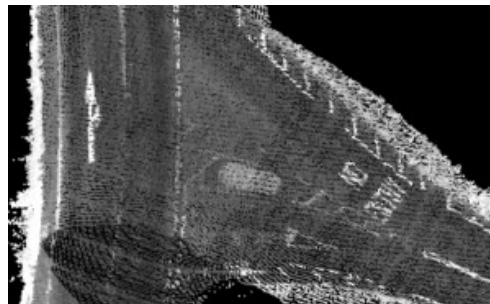
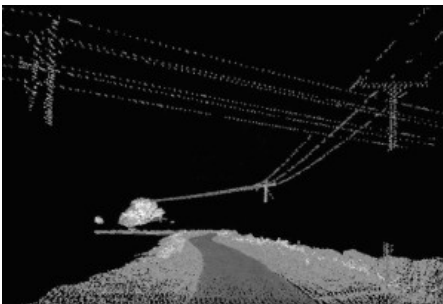
INTERNATIONAL LIMITED

3D LASER MAPPING TECHNOLOGY



Sorbus International Limited (Sorbus) in collaboration with experienced 3D laser mapping companies can now offer the very latest 'ground based' three dimensional laser mapping technology.

All images shown were scanned from the ground!



THE TECHNOLOGY

Laser scanners have been used widely over the past decade for highway surveys, vegetation mapping, power line surveys, city modelling, coastal surveys etc. However, the cost of traditional airborne 'LiDAR' – Light Detection And Ranging - is often prohibitive for all but the largest projects.

The Sorbus solution is to use GROUND BASED LiDAR technology where laser scanning is done using a static, portable or mobile (vehicle mounted) system. This system is much cheaper to deploy and is far more versatile than the airborne option.

So, after many years, the sophistication of LiDAR is now within affordable reach for most survey applications.

HOW DOES IT WORK?

- The laser scanners use the time of flight method to record distance by measuring the time taken for a laser pulse to be reflected back from a target surface. Positional accuracy is achieved using high precision GPS / INS
- Our instruments capture literally millions of 3D points per minute with point to point accuracy better than 3cm
- Because the data is in 3D, the resulting images can be viewed from ANY aspect and accurate measurements can be taken between any points on the scan
- By merging with digital images or real time video, the 3D data can also be viewed in colour to aid, for example, identification of specific features

TYPICAL APPLICATIONS

- Overhead Line Surveys
- Vegetation Mapping
- Street Mapping
- Asset Mapping
- Coastal Mapping
- Scene of crime mapping etc

For further information or to discuss a particular application, please contact:

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