# **iLinks News**



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## InteLAS™ HD

**Mobile LiDAR System** 



- Mobile LiDAR system
- Works at Highway Speeds
- Motion Reference Unit
- Fiber Optic Gyro Compass
- GNSS RTK Positioning
- Dual GNSS Heading
- 700,000 Points Per Second
- 100m Range Capability
- ± 1cm Accuracy at 100m
- 42° x 360° Field Of View
- 0.01° Angular resolution
- Factory Calibrated
- Water & Dust Resistant
- Rugged Laptop PC
- HYPACK, QINSy or EIVA
- Training & Support

#### **NEW FOR 2017**

## InteLAS™ HD

**Mobile LiDAR System** 



- New 'Tightly Coupled' GNSS and INS system
- LiDAR sensor tilted upwards to optimize beam coverage
- Real-time GNSS and IMU RAW data recording to PC for future Post Processing
- Simple upgrade path for existing InteLAS™ users
- New 'Quick Config' features for simpler operations







### Surveying New Zealand's rural roads and highways with mobile LiDAR

The iLinks InteLAS™ mobile LiDAR system was put to work in New Zealand this month to survey a number of rural roads, highways and city center proposed, and existing, bus routes.

The InteLAS™ system was fitted to a compact SUV and was powered from the 12 volt auxiliary power socket.

positioning enhanced by RTCMv3 throughout campaign. by scanning local survey the surveys. control points.

out at normal road and LiDAR highway speeds of 50 to 80 interpretation KPH using number of extraction process.



Network RTK corrections different combinations of the 32 Mobile LiDAR is an exceptional which provided an overall lasers available to the InteLAS<sup>TM</sup> tool for the transportation dynamic 3D positioning mobile LiDAR system. While a market, not only is it safe and quality of 0.03m RMS or Temporary Traffic Management efficient, long stretches of roads the Plan (CoPTTM) was in place, and highways can be surveyed Positioning there was no disruption to in great detail without closina accuracy was confirmed normal traffic flow throughout off roads or causing

Geo-referenced digital images Accurate 3D point clouds were All Surveys were carried were collected together with the generated in real time using data and

disruption to the public.

to aid the user defined QC parameters feature with no requirement for any type of Post Processing.

Georeferenced images were collected using a standard NIKON D3300 digital camera, which was interfaced to the data acquisition software via a standard USB cable. Images were downloaded from the camera, geo-referenced and then stored on the data acquisition PC alongside their corresponding LiDAR data. Visit www.ilinks.us or www.iLinks.co.nz to download sample data sets and geo-referenced images. Watch an example LiDAR data fly-through at https://www.youtube.com/watch?v=7gs6ceTC45Q

