InteLAS[™] Mobile LiDAR System

- 300,000 Points Per Second
- ± 3 cm Accuracy
- 100 m Range
- Integrated GNSS, IMU, FOG
- Requires No Calibration
- Works at Highway Speeds
- Real Time Geospatial Data
- Software Included

The INTELAS[™] (Integrated Laser Acquisition System) mobile mapping system represents the very latest in dynamic geospatial data collection technology. The system comes fully calibrated and ready to operate, complete with its own 3D data acquisition and visualisation software.

APPLICATIONS

Delivering up to 300,000 data points per second, the system can be used at near highway speeds and is ideally suited to any number of applications including; highway planning, bridge, height and width, asset management, railroad surveys, corridor mapping, power line surveys, pipeline surveys, volumes and much more.

BENEFITS

The compact form factor and light weight of the INTELAS[™] allows the system to be fitted to almost any type of vehicle, vessel or mobile platform in a matter of minutes.

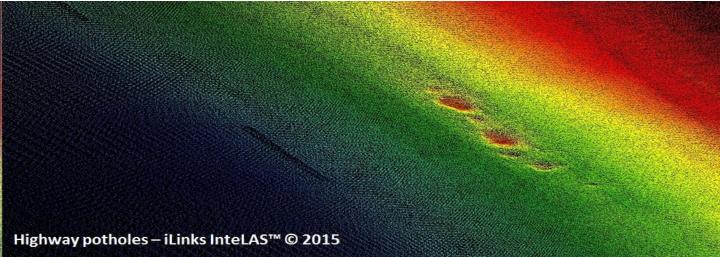


The system has been designed to be simple to mobilise and easy to operate without the need for specialised training or qualifications. Being able to rapidly acquire accurate geospatial data in real time, without the need for post processing, not only offers a number of cost and efficiency benefits to existing operations, it also helps create new business and market opportunities.

FULLY CALIBRATED

The INTELAS[™] is delivered as a fully calibrated ready to go mobile mapping system, complete with PC and software. The system requires no user calibration or configuration and can be mounted on any type of mobile platform and be ready to acquire accurate 3D Geospatial data within minutes.

Onsite training is included with every system together with 12 months 24/7 telephone and remote internet support.



INTELAS™ Specifications

Laser / Detector pairs995 nm Class-1 Eye SafeLaser / Detector pairs1-16 pairs (User selectable)Horizontal Field of View (Degrees)360°Range (Meters)1m to 100mRotation Speed (Frame Rate)5-20Hz (300 RPM to 1200 RPM) user selectableAccuracy+/-3 cm (one sigma at 25 m)OutputUp to 300,000 points/second (user selectable)GNSS RECEIVER	LIDAR SENSOR	
Horizontal Field of View (Degrees) +15° to -15° (30°) Vertical Field of View (Degrees) 360° Range (Meters) 1m to 100m Rotation Speed (Frame Rate) 5-20H2 (300 RPM to 1200 RPM) user selectable Accuracy +/ 3 cm (one sigma at 2 g m) Output Up to 300,000 points/second (user selectable) GPS Signals / GLONASS Signals L1, L2, L2C, L5 /L3, L2 Simultaneous Tracking Channels 240 GPS Signals / GLONASS Signals L1, L2, L2C, L5 /L3, L2 Single Point Accuracy (Meters) 0.60m SataBitte DGPS Accuracy (Meters) 0.30m + 13pm VBS Accuracy (Meters) 0.30m + 13pm COMBINED GNSS IMU SYSTEM ACCURACY GYRO Type GYRO Type Fiber Optic Gyro (FOG) Accuracy (Degrees) 0.01° Roll Accuracy (Degrees) - Stand Alone System 0.030° Heading Accuracy (Degrees) - External Antenna (1 m Baseline) 0.030° Heading Accuracy (Degrees) - External Antenna (2 m Baseline) 0.030° Heading Accuracy (Degrees) - External Antenna (2 m Baseline) 0.030° Heading Accuracy (Degrees) - External Antenna (2 m Baseline) 0.030°	Laser Class	905 nm Class-1 Eye Safe
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Shock500 m/sec2 amplitude, 11 msec durationVibration5 Hz to 2000 Hz, 3G RMS		
Vibration 5 Hz to 2000 Hz, 3G RMS		
	Vibration	
Operating / Storage temperature -10° to +60° C / - 40° to +105° C	Operating / Storage temperature	-10° to +60° C / - 40° to +105° C

For more specific information on the InteLAS™ or arrange a system demonstration, please call +1 281 665 3954 or e-mail us at info@ilinks.us

