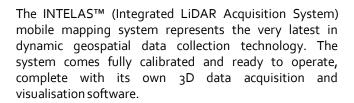
InteLAS™ HD - Mobile LiDAR System

- 700,000 points per second
- ± 1 cm Laser accuracy
- 100 m laser range
- Integrated GNSS, IMU, FOG
- Absolute Accuracy 0.02 m =0.05 m
- Requires no user calibration
- Survey speeds up to 70 mph
- No post processing required



APPLICATIONS

Delivering up to 700,000 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 mobile platform in a matter of minutes.

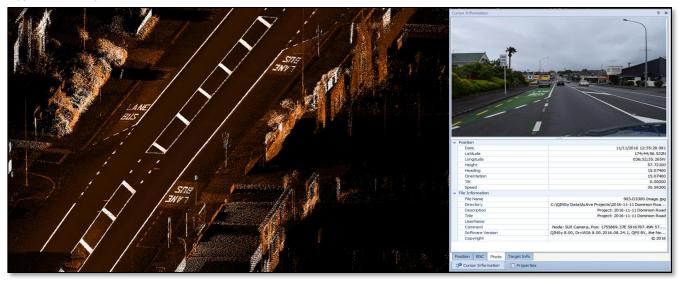


The system has been designed to be simple to mobilise and easy to operate without the need for specialised training or qualifications. Being able to rapidly acquire accurate geospatial data in real time, without the need for post processing, not only offers a number of cost and efficiency benefits to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

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



INTELAS™ Specifications

LIDAR SENSOR	
32 laser/detector pairs	905 nm Class-1 Eye Safe
Horizontal Field of View (Degrees)	+10.67° to -30.67°
Vertical Field of View (Degrees)	360°
Range (Meters)	1m to typically 8om - 100m
Frame Rate	10 Hz Default (user selectable, 5-20Hz)
Accuracy	<pre><2 cm (one sigma at 25 m)</pre>
Output	Up to 700,000 points/second (user selectable)
GNSS RECEIVER	
Simultaneous Tracking Channels	240
GPS Signals / GLONASS Signals	L1, L2, L2C, L5 /L1,L2
Single Point Accuracy (Meters)	1.20m
SBAS Accuracy (Meters)	o.6om
Satellite DGPS Accuracy (Meters)	o.4om
VBS Accuracy (Meters)	o.6om
XP / HP Accuracy (Meters)	0.15m / 0.10
RTK / VRS Accuracy (Meters)	0.01m + 1ppm
COMBINED GNSS IMU SYSTEM ACCURACY	
GYRO Type	Fiber Optic Gyro (FOG)
Accelerometers	MEMS
Pitch Accuracy (Degrees)	0.015°
Roll Accuracy (Degrees)	0.015°
Heading Accuracy (Degrees) – Stand Alone System	0.050°
Heading Accuracy (Degrees) – External Antenna (1 m Baseline)	0.030°
Heading Accuracy (Degrees) – External Antenna (2 m Baseline)	0.020°
DATA OUTPUTS	
Communications Protocols	Ethernet TCP, Ethernet UDP, RS232, USB
Laser Data Output	Ethernet UDP – 700,000 Points Per Second
GNSS and IMU Data Output	Ethernet TCP – 100Hz
Timing Signals	GNSS 1 PPS and GPRMC (Programmable)
DATA INPUTS	
Command & Control	Ethernet (1 Gbyte) UDP, TCP
Programming	RS232, USB
RTK or VRS Correction Signals (RTCMv3 / CMR+)	RS232
POWER	
Input Voltage	9 – 32 Volts DC
Power Consumption	30 Watts
PHYSICAL	
Dimensions (L x W x H)	600 mm x 200 mm x 190mm
Weight	12.0 kg (26.5 lbs.)
Environmental Protection	IP 65
Shock	500 m/sec ² amplitude, 11 msec duration
Vibration	5 Hz to 2000 Hz, 3G RMS
Operating / Storage temperature	-10° to +60° C / - 40° to +105° C

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

