iLinks News

iLinks Geosolutions LLC ♦ 27027 Westheimer Parkway, Suite 2000-2200, Katy, TX 77494 ♦ Tel: +1 (281) 665-3954 ♦ Fax: +1 (832) 201-8456

S250 LiDAR Sensor

- Standalone LiDAR sensor
- Class 1 eye safe laser
- Built for tough environments
- 36,000 Points Per Second
- 250m Range Capability
- ± 1cm Accuracy at 100m
- 360° Field Of View
- Hypack, QINSy, PDS1000, EIVA
- Training & Support

M250 LiDAR Sensor

- Standalone LiDAR sensor
- Class 1 eye safe laser
- Built for tough environments
- 36,000 Points Per Second
- 250m Range Capability
- ± 5cm Accuracy at 100m
- 360° Field Of View
- Hypack, QINSy, PDS1000, EIVA
- Training & Support

Cost effective LiDAR solution for multibeam equipped survey vessels

The number of mobile LiDAR systems in the market today is growing exponentially as the technology, and its ability to produce high quality accurate 3D geospatial data at unthinkable speeds, gains acceptance in the land and marine survey community.

Although mobile LiDAR systems vary dramatically in price and performance, they all have three things in common; a scanning laser rangefinder (LiDAR), a GPS and/or GLONASS positioning and heading system (GNSS) and a motion reference system (MRU). In the majority of cases the GNSS/MRU are integrated into a single Inertial Navigation System (INS).

High performance INS systems are expensive and it is these high-end components which are driving the cost of many mobile LiDAR systems to where they are today.

Most multibeam capable survey vessels, both large and small, have exactly the same high quality GNSS and MRU systems already fitted, so why purchase something you already have.

All you really need is the scanning laser component, or LiDAR sensor, and you have your mobile LiDAR system. By sharing the common positioning and motion systems between your LiDAR and multibeam systems, the ability to acquire combined multibeam and LiDAR data is enabled, for a fraction of the price.

The demand for combined multibeam and LiDAR 3D data is rapidly increasing, particularly in the dynamic marine engineering market which demands fast, reliable and accurate results.

Rugged marine grade LiDAR sensor

The Renishaw S250 and M250 marine grade LiDAR sensors have been designed and built specifically for rugged marine environments and ease of integration with most commonly used positioning and motion systems. Interfacing with existing systems and software is simple, send the unit NMEA ZDA and 1PPS timing messages from the GNSS system and the unit returns time synchronised laser data over a standard Ethernet connection directly to the onboard computer. Hypack, QINSy, PDS1000 and EIVA software packages are all fully compatible. For more information on the M250 and S250 LiDAR sensors visit www.ilinks.us