Portable Multibeam and LiDAR system

The iLinks PMLS is the first truly portable combined Multibeam and LiDAR system. The PMLS system is ideally suited to projects which require rapid mobilisation on vessels of opportunity. PMLS negates the requirement for lengthy equipment mobilisations and calibrations and is simple to deploy and operate . PMLS is the ideal solution for combined Multibeam and LiDAR operations.

SYSTEM COMPONENTS

- Dual GNSS Positioning & Heading System
- Motion Reference Unit (MRU)
- 250M Scanning Laser Module (LiDAR)
- Multibeam SONAR System
- Precision Universal Sonar Mount
- Ruggedized 19" Equipment Rack / Transit Case
- High Specification I7 Computer
- QINSy Hydrographic Survey Software
- UPS Power Supply

SYSTEM BENEFITS

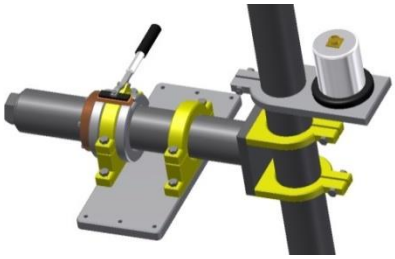
- Transportable
- Fixed offsets
- Easily calibrated
- Maintains calibration between deployments
- Fully integrated and Ready-To-Use
- Rapidly deployable on any vessel
- Concurrent Multibeam & LiDAR 3D data acquisition
- Real Time 3D point cloud processing
- Training & Support

DUAL GNSS POSITIONING SYSTEM

Dual GNSS (GLONASS & GPS) receivers, configured to operate with both RTK and VRS correction systems, provide accurate 3D Positioning, Heading and precise 1PPS timing for the other survey systems.

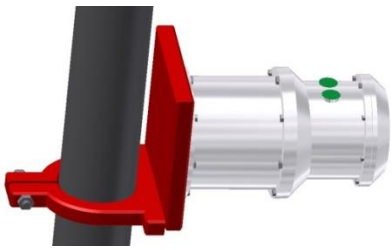
MOTION REFERENCE UNIT (MRU)

The Motion Reference Unit, which is closely coupled to the GNSS system, provides accurate Pitch, Roll and Yaw information to assist in the calculation of the SONAR Beam launch angles from the Multibeam system.



SCANNING LASER MODULE (LiDAR)

A Scanning Laser Module, with a 360° field of view, provides accurate LiDAR measurements at rates of up to 36,000 shots per second. Each of the LiDAR range measurements are precisely time synchronized (1PPS) to the GNSS system.



MULTIBEAM SONAR SYSTEM

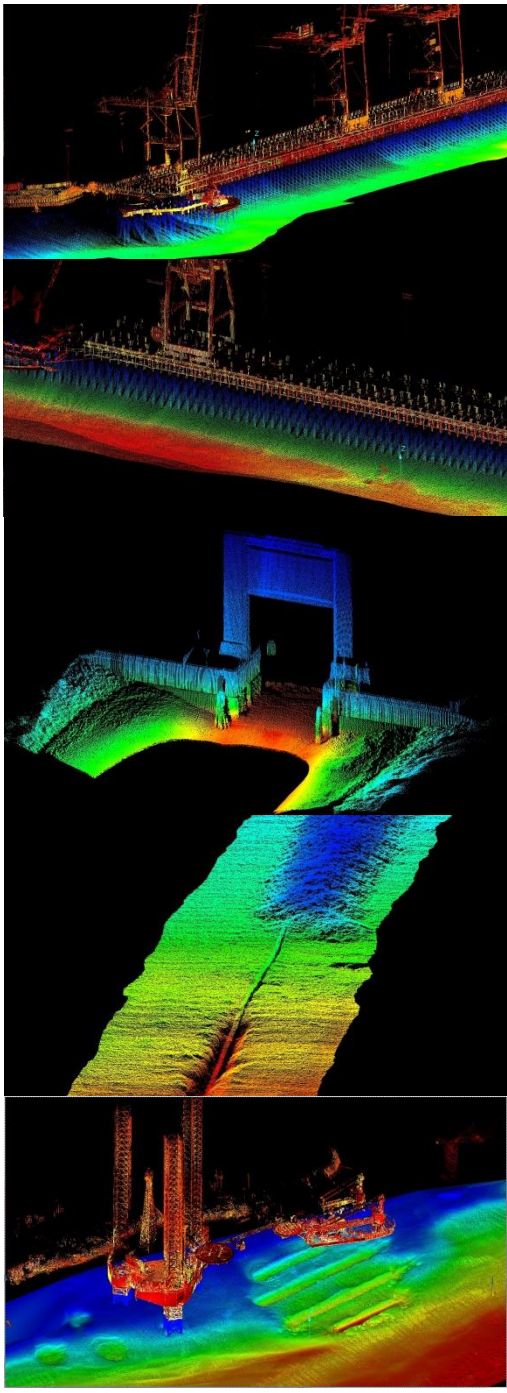
The Multibeam SONAR system is mounted on a tilt mount which provides for 0° to 90° offsets, this allows the system to be adjusted to give seamless coverage from the sea bed to the water surface. Calibration values for all angles are pre-programmed into the system software.

CONTROL RACK

A rugged 19" Rack transit case houses the GNSS receivers and the Multibeam control systems together with a high specification I7 computer. The computer is pre-loaded and configured with QINSy data acquisition software.

System Benefits

- A variety of Multibeam and LiDAR systems are available to suite your price / performance budget
- The XYZ offset s to the Multibeam transducer And the LiDAR sensor can be precisely measured.
- The Ethernet connection plugs straight into the existing onboard data acquisition computer or the dedicated control system.
- The LiDAR data is automatically time -synchronised to make interfacing as simple as possible .
- The system is fully compatible with HYPACK / HYSWEEP 2016 , QINSy, EIVA and PDS1000 software.
- The LiDAR system can be used to accurately calibrate the Multibeam when no seabed features are available.
- Never needs calibration, even when moved from vessel to vessel.
- Full warranty and support provided.
- Full installation and commissioning services are available .



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

iLinks GEOSOLUTIONS