

MERLIN LiDAR Sensor



PERFORMANCE

- Class 1 eye safe laser
- 36,000 Points Per Second
- 250m Range Capability
- ± 1cm Accuracy
- 250 meter range
- 360° Field Of View
- 0.01° Angular resolution

POWER

- 10.5 to 36 volts DC
- 200 Watts maximum

PHYSICAL

- 370.5mm x 270mm x434mm
- 11 kg

ENVIRONMENTAL

- IP66 (Marine Grade)
- -10°C to +50°C Operating
- -25°C to +70°C Storage

SOFTWARE

- Hypack
- QINSy
- PDS1000
- EIVA
- Training & 24/7 Support



Custom engineered marine LiDAR sensor

Global technology company Renishaw Inc. has recently announced the release of the MERLIN, a custom designed and engineered marine grade mobile LiDAR sensor. The MERLIN is an innovative stand-alone laser scanner designed for rapid deployment on almost any type of marine survey vessel.

Most multibeam capable survey vessels, both large and small, already have exactly the same high quality GNSS positioning and motion reference systems as those used by nearly all of the mobile LiDAR systems available today, so why purchase something you already have.

All you really need to do is fit the Merlin marine LiDAR sensor to your vessel, connect it to your existing data acquisition computer, and you have your mobile LiDAR system. By sharing your existing onboard positioning and motion systems between your LiDAR and multibeam systems, the ability to acquire combined multibeam and LiDAR data is



enabled, and for a fraction of the price of a dedicated mobile LiDAR system.

The Merlin marine grade LiDAR sensor has been custom designed and built specifically for use in rugged marine environments and ease of integration with almost any vessel based positioning and motion systems. Interfacing with existing vessel systems and software is simple, the Merlin uses its own internal GNSS receiver to time-synchronize the LiDAR data which is then

sent to the data acquisition computer over a standard Ethernet UDP connection. No special installation or training expertise is required to install and operate the Merlin.

The addition of a dedicated marine LiDAR system to your existing survey vessel equipment will allow you to complete complex projects more efficiently, keeping you ahead of the competition in what is the fastest growing market sector in our industry today.

Contact information

iLinks Geosolutions LLC are Renishaw's Sales, Support and Training partner for the MERLIN marine LiDAR sensor in the USA. For more information on Merlin LiDAR sensor visit www.ilinks.us. Watch the Merlin animation video at <https://www.youtube.com/watch?v=dNCGwxpR-wE>

