iLinks News



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InteLAS[™] HD

Mobile LiDAR System



- Mobile LiDAR system
- Works at Highway Speeds
- Motion Reference Unit
- Fiber Optic Gyro Compass
- GNSS RTK Positioning
- Dual GNSS Heading
- 700,000 Points Per Second
- 100m Range Capability
- ± 1cm Accuracy at 100m
- 42° x 360° Field Of View
- 0.01° Angular resolution
- Factory Calibrated Water & Dust Resistant
- Rugged Laptop PC
- HYPACK or QINSy
- Training & Support

MERLIN





- Standalone LiDAR sensor
- 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
- Water & Dust Resistant
- Rugged Laptop PC
- HYPACK or QINSy
- Training & Support



Producing a 3D model in "Real-Time" using three independent LiDAR and SONAR systems

The great LiDAR debate, which has been going on for almost a decade, centers around three core arguments; Laser range, accuracy and point cloud density. In our humble opinion, it's all just Horsesfor Courses" chose the system that best suits your operational requirements.

have

Lidar

completed hundreds of

land and marine LiDAR

meter range but there

were occasions when 150 meters was not enough.

designing and

iLinks

mobile

been real-time using different LiDAR beam system were collected sensors on the same platform. building systems

since 2008 and have iLinks fitted their Rapid Deployment Survey Vessel with (RDSV-2) their own projects, 90% of the data InteLAS™ mobile LiDAR system The InteLAS™ HD has been delivered to the customer and the new Renishaw was within the 35 – 75 "MERLIN" stand-alone LiDAR sensor. The RDSV-2 is also fitted for low density long range so with the latest R2Sonics 2024 Hi- the resultant combined 3D Res multibeam sonar system.

verv

There is no shortage of The InteLAS™ HD was used to data sets out there from provide positioning, heading various LiDAR systems but and motion reference for all few that were three systems. Data from both collected concurrently in LiDAR systems, and the multi- way to the water surface.

simultaneously producing a real-time 3D point cloud of the above and below the water surface scene.

designed for high density medium range and the MERLIN point cloud contained the best of both worlds. During the survey the R2sonic multibeam head was tilted towards the surface to enable the collection of sonar data all the

Although all of the onboard systems performed well and exceeded their published specifications, and the data set was exceptional, it hasn't changed our "Horses for Courses" opinion. Think about your flat screen TV at home; If you sit close up to the TV you need the high 1080P pixel density or the picture becomes blurry, but if you sit across the room, the 720P looks as good as the 1080P, it all depends on what you want from the system, which is why iLinks designed the InteLAS[™] range of mobile mapping system with optional LiDAR sensors. The Kemah Boardwalk data set from the above trials will be made available for download on request - contact us at http://www.ilinks.us/contact.html



InteLAS™ HD and MERLIN data

