

LANDMark Mobile Mapping

Applanix introduced today the latest LANDMark Marine mobile mapping solution, which enables the creation of seamless models of near shore environments by providing a georeferenced point cloud which integrates with equivalent multibeam sonar data.

Fully integrated with the industry-leading POS MV and POSpac MMS georeferencing and motion compensation suite, LANDMark Marine is a complete solution that comes ready to mount and operate on any marine vessel. Key components include a 2 axis laser scanner with built-in digital camera, complete control software for Microsoft Windows-CE, XP or Vista, a boresighting software module for accurately and repeatedly measuring Inertial Measurement Unit (IMU) to Lidar misalignment angles, as well as a data extraction and coordinate system conversion utility for outputting point cloud data.

In order to capture detailed information regarding an area of particular interest, LANDMark Marine offers a unique "stop and stare" capability where, with the vessel held nominally static, a raster scan is carried out over a period of a few minutes, producing a particularly dense point cloud to enable detailed analysis.

The solution has application in a wide variety of applications including:

- Environmental monitoring (erosion, disaster mapping, change detection, habitat)
- Structural analysis (docks, vessels, bridges, oil and gas platforms)
- Charting
- Port and harbour security
- As-built surveys
- Coastal zone management
- GIS source data

<https://www.hydro-international.com/content/article/landmark-mobile-mapping>
