

3D Laser Scanning & 3D Modelling for... Shipping & Marine



3D Laser Scan
CS Sovereign Ship
Cammel Laird Docks, Liverpool

Severn Partnership have been developing skills in 3D laser scanning & modelling for the marine industry since 2009. By combining our RICS Chartered status with an established quality system (audited by BSI) and state of the art Leica HDS scanning equipment we are able to offer a comprehensive service to the Marine sector.

What is Scanning?

Capturing 3D measurements to model the environment — be that a ship's hull, deck, GPS antennas, ROVs or holds. This captures the data at a point in time, which can be modelled, queried or archived.

Why Scan?

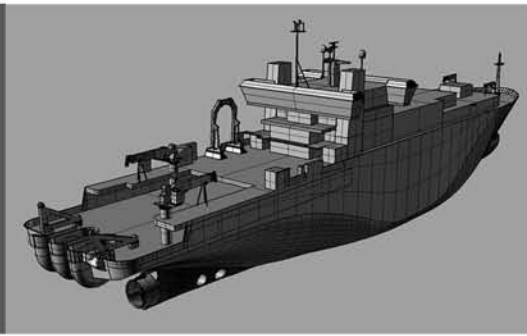
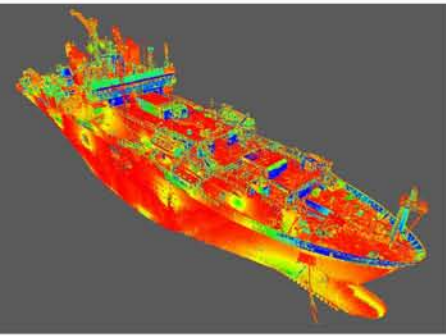
Having accurate 3D documentation of commercial ships can save time and money in disaster recovery, retro fitting design, planning cargo, and can also be integrated with 3D navigation software.

Scanning is remote, reflectorless measurement and thus safe in dangerous environments (survey from up to 100m away). This is ideal for collision investigation or rope snap zones where the surveyors need to maintain a safe distance.



Laser Scanner & Ship
Sunderland





Applications for Scanning & Modelling

- Naval architects
- Integration with 3D navigation software
- Insurance & structural damage assessment
- Marine accident investigators - Hull strike
- Plant retrofitting or deck re-modelling
- Hull design & repairs in dry dock
- Assisting in conventional ship survey reports

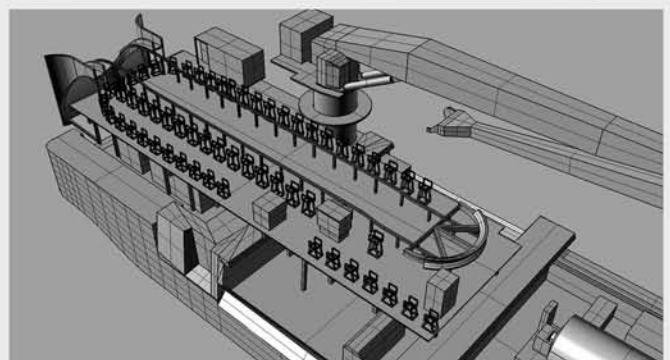
Examples of our Experience

Severn Partnership have provided marine laser scanning, 3D modelling & visualisation solutions on the following vessels and projects:

- CS Sovereign (L=130m) scanned in Liverpool & 3D modelled
- Cable Innovator (L=145m) scanned in Hong Kong & 3D modelled
- Jan Steen (L=77m) scanned in Rotterdam & 3D modelled
- London Array - wind turbine project, 3D modelled
- ROVs & seabed equipment, scanned & 3D modelled

Project Deliverables

- Archive of 3D point cloud data
- Leica TruView dataset - accessed via web browser
- 3D CAD model
- 3D animations, visualisations & photomontages
- 3D reconstruction
- 3D PDFs
- Plans, sections, elevations & ship survey reports



Contact [Nick Blenkarn](#) or [Mark Combes](#) to arrange a free visit and talk through your potential requirements.

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