

Mermaid 500 Real-time Simulation Software

The MERMAID 500 simulation software is at the heart of every MARIN delivered real-time manoeuvring simulator, ranging from small desktop simulators to large Full-Mission Simulators.

The uniqueness and the power of the software lies in the unrivalled high level of modelling that can be expected from a renown model testing institute such as MARIN.

Being completely modular in set-up and configuration, this software package is used successfully on small, medium and large simulators, examples of which are shown in the accompanying pictures.

Important considerations in defining the scope of any simulator are:

- The amount of equipment in the Bridge wheelhouse, such as consoles with steering controls and instruments, ARPA, ECDIS, VHF, intercom, special features, etc.
- The total number of visual channels, resolution and displaying method.
- Modern PCs are already capable of handling 1024 x 768 and 1280 x 1024 at good update rates. Front projection or mirror projection are common practice display methods.
- The total number and extent of geographical databases.
- The total number of own ship models. MARIN has a large library of model tested own ship models with 6 degrees of freedom motions. The quality of modelling own ships is extremely important.
- Additional packages, such as a Ship Generation Tools, a Database Modelling Tool, Stealth View, Audio Logging (synchronous with Data Logging) and replay and Debriefing Tools.

MARIN is proud to count many Pilot Organisations in her list of users and buyers of the MERMAID 500 software.

For more information please contact the Maritime Simulation & Software Group;

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Example of a medium size simulator for promotional purposes of the Netherlands navy



Bilbao, Pilot o/b tanker



Tug Master o/b Voith Water Tractor



Example of Full-Mission simulators in use at MARIN's Nautical Centre MSCN