

Designing control systems that bring your application to life.

- Docking procedures made simple, by fully integrated control system
- Providing the skipper complete control at the touch of a joystick
- Integration of entire hydraulic system including rigging, all hydraulic sail functions and deck winches
- Commissioned on site in Maine USA
- Remote access system installed for routine maintenance and upgrades

Sailing made easy!

Horizon were approached by a leading UK thruster manufacturer, to provide a control system that would allow full joy stick based control of a 48 ft sailing yacht, when under engine power.

The yacht has been fitted out with a rotating sail drive leg, bow thruster and Yanmar engine providing hydraulic power.



The specification required both the bow thruster and the stern leg to work together in order to achieve complex docking manoeuvres. When the joystick is moved to port the stern leg rotates to position and thrusts proportionally with the bow thruster, based on the command from the joy stick.

This type of integration between mechanical, hydraulic and electrical systems required a robust solution. The Mitsubishi FX3U PLC was the controller of choice.

It allowed for complex programming to handle the system and was flexible enough for the system to be expanded if required.

Helm joy stick panel



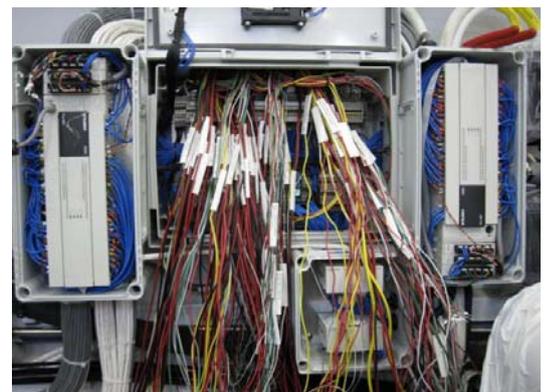
Horizon worked closely with its client and their customer, the boat builder, in Maine USA, to manufacture install and commission the system.

The yachts base during winter time, is in the state of Maine, so in order to facilitate easy routine maintenance and program upgrades a remote access system was installed by Horizon to ensure the systems performance through every stage of its life cycle.



Right: Top of the rotating sail leg and Yanmar engine in the machinery space, also visible are the hydraulic manifold blocks.

Below: During onsite commissioning, showing main PLC'S and terminal junction box, a lot of wires left to put away at this stage!



Contact us

Horizon Integration, Unit 19, White Hays South, West Wilts Trading Estate, BA13 4JT
Tel: 01373 827599

Email: info@horizonintegration.co.uk
Web: www.horizonintegration.co.uk