

HORIZON INTEGRATION SYSTEMS INTEGRATOR

Helping put the “super” in superyacht!

Horizon adding value through integration.

The ground breaking super yacht:
ADASTRA



You've just spent millions on a ground breaking, one of a kind super yacht, and your anchor handling control system isn't up to the job, who do you call? Horizon Integration Ltd!

The trimaran ADAstra is a 42m luxury cruising superyacht, launched in 2012, by a leading china based boat builder. Due to the shape of the yacht an elaborate anchor handling system was required to managed the three concealed anchors.

The original control system installed for the anchor system didn't quite meet the design brief, and wasn't providing the flexible control required for the job. At this stage the yacht had already been delivered to the owner in Singapore and Horizon was asked to deliver!

Below:
The STBD anchor, hatch open, chute out and ready to deploy.

The anchor handling system on board comprises of three hydraulic anchor winch drums these drums are concealed in the hull. Two drums are mounted in the connecting wings port and stbd for each nacelle and the main anchor is concealed in the very narrow bow section. Because of the sleek design of ADAstra each anchor drum and deployment chute is hidden behind hydraulically powered hatches.



Horizon integration designed, built, and installed a wirelessly operated automation system that enables each anchor to be deployed at the touch of a button. When the deploy button is pressed for any of the three anchors the control system goes through a complex series of control operations to open the hatch, release the ratchet drum brake involving a Pre counter rotation of the chain drum, deploy the anchor carrier chute and then finally pay out the anchor chain.

In order to achieve this challenge Horizon integration selected the powerful Mitsubishi FX3U PLC, supplied by distributor LC Automation. Shown left, installed and working, the compact yet capable FX3U ensures the control system has the speed, accuracy and reliability required for this demanding application.

See the system in action at:
<http://www.youtube.com/watch?v=3H8JmObtCHI>

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- **Wireless operation integrated with FX3U PLC**
- **Full system operation and setup via touch screen HMI**
- **A global project, designed in the UK, installed in China, Commissioned in the Singapore**
- **Flexibility and innovation, key project values.**
- **Project delivered in budget and on time!**

