



Ocean Data System
ELECTRONIC MARINE SOLUTIONS



UpSideUp
SUPERYACHT



The most powerful rigging management solution for sailing yachts



- Monitoring of "above deck" systems
- Sails control at the fingertips
- Crew and boat security
- Multipurpose data logging

Ocean Data System is a leader in state-of-the-art automated instrumentation & monitoring for sailing yachts.

Thanks to the UpSideUp solution and our worldwide expertise, we help owners, crews, designers and contractors use accurate information to ...

- enhance sailing experience,
- improve the security,
- manage the yacht,
- validate design assumptions.

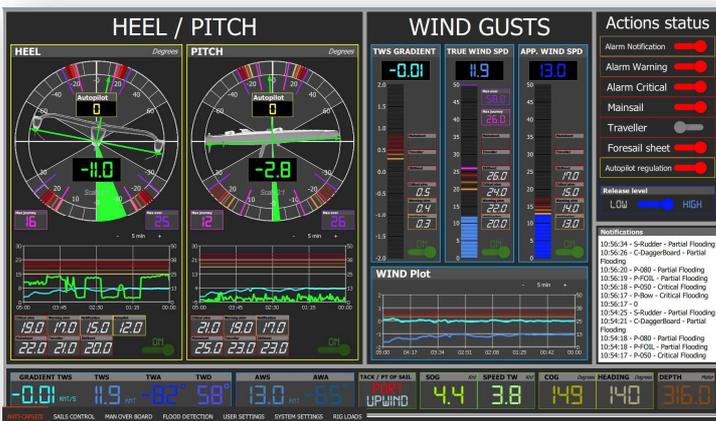


An **ODS DEVELOPMENTS** solution

Main functions and key arguments

- **Load monitoring** : Essential for peak performance, safety and design development. Real-time load data allows the crew to maintain optimal sailing conditions without compromising vessel safety.
- **General monitoring** : Appendages position, halyard hooking, nav lights, any components on board can potentially be supervised by the UpSideUp.
- **Security** : UpSideUp helps the crew in critical situation like Man Over board event. It can early detect capsizing situation, bilge down flooding, imminent collision, structural part braking... and activate automatically the right process to avoid serious consequences.
- **Processes control** : Easy to handle, finger tips control of all the sailing vessel's systems above deck and under water line (release actuators, winches, furlers, appendages, hydraulics, nav lights, ...).
- **Automation** : Complex processes can potentially be automatically managed by the UpSideUp processor (tacking, optimum sail trim, optimum dagger board position, Furling, ...).
- **Data Logging** : Events and data recording for accident investigation, feedback on the yacht performance and behaviour, historical overview of the yacht activity, max reach value, sail usage time...
- **On-demand applications** : Specific developments - Personalized service
- **Seamless integration** with existing instrumentation.

The UpSideUp user interface (UI)



- The new user interface has been designed to focus on anticipating possible user actions and ensuring that the interface offers elements that are easy to access, understand, and use to facilitate those actions. Its contextual display brings to the user the right information at any time.
- It is designed to be accurately adapted to the used functions, the way the user interacts, the screen size and the nominal viewing distance.
- It can be split over the vessel to get the information and finger-tips control from where it is the most efficient. Its cross-platform property allows to run it simultaneously on a Windows or Mac OS computer at the nav station, a mobile tablet, or a small Linux remote display at the helm station.
- Easy to build, from the simplest number box to the most complex graphic control, the user interface can be either, supplied finalized and ready to play, or tailored by the project technical team with our engineers' support.

Advanced load measurement solutions

- Wireless sensors network with energy-harvesting system
Eliminate costly wiring and battery maintenance with energy-harvesting wireless sensor technology
 - Innovative fiber optic sensing solution (WLPI):
Easier to deploy, more stable and reliable, no maintenance, Lightweight and miniature
 - Compact and non-invasive strain gauge sensor technology.
- Innovative technology allowing strain monitoring in complex structures with numerous measuring nodes.

Related services

- Our role extends beyond the supply of tailor-made devices. Depending on your specific needs, we can provide you with all sorts of relevant services:
- Technological advice and assistance
Our dedicated engineers are here to assist you at all stages. They help you define your needs and choose the best solution. They'll see your project throughout, from planning to implementation.
 - Pre-assembly in our workshop
 - On-site installation in collaboration with your project technical team
 - Calibration, training, sea trials
 - Data acquisition and post-processing with dedicated software



NDR (Navigation Data Recorder)

Part of the UpSideUp solution, the NDR module is an advanced data logger dedicated for boating :

- Accident investigation
- Historical overview of the vessel activity and atypical sailing conditions
- Feedback on the vessel performances and behaviour
- Tracking of the handling and driving modes.
- Recording of the Sail usage time
- Recording of the "Max Reach" set of values

