



**AMA**  
APPLIED MARINE AUTOMATION





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# WELCOME

At Applied Marine Automation we know how important the personal touch is to your customers, in the design and aesthetics of their boat and the service they receive.

The leading luxury yacht manufacturers we work with choose our services for the complete customisable and quality advanced solutions we provide.

With a customer focused approach we use our expertise to find the best solution for all of your on board automation, control and monitoring requirements from switch panels to a complete integrated bridge.

The whole process from design and manufacture to installation and commissioning is meticulously carried out by our skilled in-house team so we can offer a cost effective solution with efficient project and budget management.

Our teams work to high quality standards and can produce products compliant with the appropriate classification societies.

Flexible support and comprehensive training complete the package and our customers know they can rely on premium service.



David Rowe  
Managing Director





# BRIDGE DISPLAY

Integrated Bridge Systems



From a basic, conventional bridge to integrated glass displays, our designers and engineers carefully balance exciting aesthetics and convenient functionality.

We can offer customised curved consoles that complement your interior. Using the latest techniques in optical glass bonding we ensure you get a clear image even in bright sunlight.

Our monitors have ultra-bright back lighting and can be produced to ECDIS standards.

Our advanced software programming seamlessly integrates your vessel's systems.

- Radar systems
- Navigation
- Navigation light control and monitoring
- Engine monitoring
- Security
- Fire controls
- Alarms
- Sea readiness
- Bilge monitoring
- Ship's horn control

# CONTROL AND MONITORING

Enjoy reliable monitoring and control of crucial systems on board your vessel.

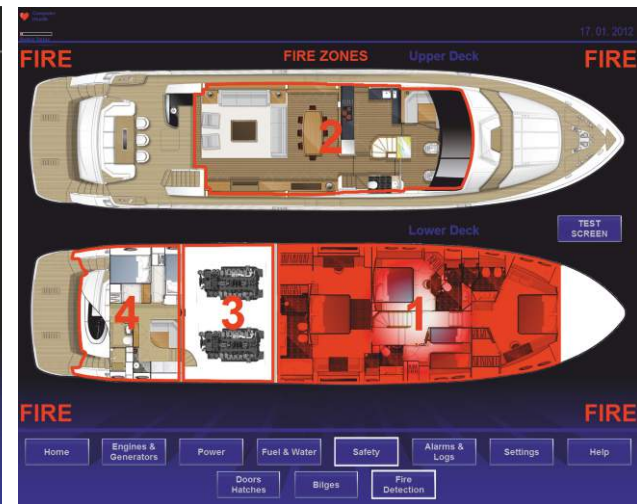
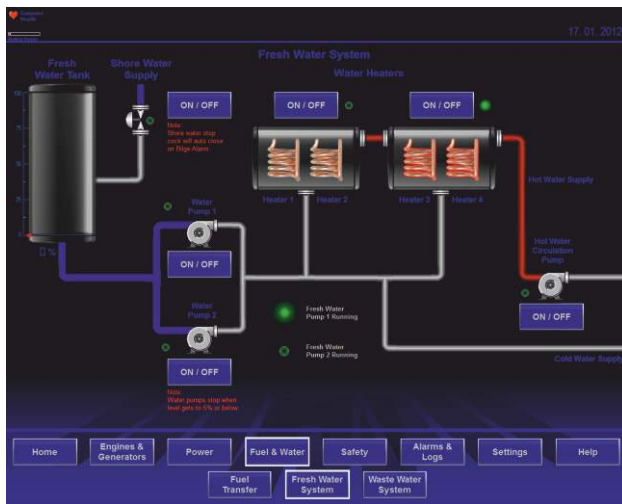
With over 30 years' experience in marine electronics our skilled engineers provide boat builders with peace of mind and effective systems.

Bespoke systems using industrial PLCs (Programmable Logic Controller) are at the heart of the control and monitoring system for the primary elements of your vessel.

With a user friendly interface we can fit displays at the helm and at convenient locations around the vessel.

Conventional switch and circuit breaker boxes can be produced compliant with the appropriate classification societies.

- Fuel, waste and water tanks
- Engine systems
- AC/DC systems
- Climate control
- Water tanks
- Lighting systems
- Alarms
- Diagnostics





# NAVIOP™

Marine automation and control system



Technology, design, research and development and service: these key areas are at the heart of Naviop's philosophy and have made it a world leading brand in monitoring systems and integrated navigation. Applied Marine Automation is a certified Naviop integrator.

## Design

Naviop's modern, innovative lines and shapes give their designs a unique feel.

## Technology

Well known for its state of the art technology and pioneering marine automation solutions, Naviop is the only Italian monitoring and control company designing and developing software and hardware with a focus on innovation, quality and reliability.

## Service

With more than 70 service centres around the world, a skilled technician will always be close by to offer timely technical support.







DVI

## Sharp Video Unit



The Sharp Video DVI unit is the core of the Naviop ultimate visualisation system. All of Naviop's monitoring and control solutions can be displayed on any type of panel (displays, televisions, monitors etc). The unit is designed and approved specifically for use in the marine environment.

With a very powerful processor the unit can manage several input/output video channels and communications ports: DVI-I input, PAL input, analogue video signals, DVI-D output, ethernet and many more. The units are all equipped with a pre-loaded graphic interface for the control and monitoring system.





## + HMI Screens



Crystal, glass and polycarbonate screens



The Naviop HMI solutions are integrated with a PLC to effectively manage and control all of the required functions. The HMIs are designed to be robust and reliable and are approved for the marine industry. Engineered with bonded glass touchscreens to eliminate condensation and minimize glare, they provide a superior viewing experience.

### Smart Crystal Series

The sleek Smart Crystal Series is the best choice for strong sunlight or low light conditions with its bright colours, wide viewing angles and excellent contrast.

### Genius Glass Series

Extremely robust with a high degree of protection (IP69K), this series is suitable for extreme environments. The panels are backlit with LEDs and have full vector graphic capabilities. The displays have a true glass view.

### Genius Series

This uncompromising, low-cost polycarbonate series is integrated with an intelligent and compact PLC and is ideal for small systems.





The Naviop system is highly versatile and can be adapted to any type of boat for the highest levels of comfort and security. The monitoring system provides control of electrical and hydraulic handling systems, air conditioning/heating systems, propulsion units, water/levels treatment systems, on-board hydraulic systems and much more.

The data shown on each page can be gathered from the field in three different ways:

- Communication protocols
- Analogue acquisition boards
- NMEA2000

Monitoring pages can be personalised with logos, pictures and a choice of background colours.

Each page can also include hardware devices, such as T-BOX PLC, Fos module, CAN network components, Nova light boards, Egon boards, West weather control unit, ION I/O module, N-Pilot controller, cables and accessories. These devices have been developed to work and interface with a range of protocols, based on NMEA 0183, NMEA 2000, Canbus 2.0B, J1939, Serial 232, 422, 485, ethernet, Modbus TCP and many more, all of them widely tested and verified.





Solutions

Ready-made



These all-in-one solutions provide HMI screens, applications and Naviop Knowledge\* in a single, affordable bundle.

Where sailing and power boats do not have monitoring systems, this is an easy update with some of the most cutting edge solutions on the market.

The Naviop catalogue includes a wide range of fully scalable solutions allowing integration and monitoring on almost all on-board controls: a single display to be flush mounted into the boat helm panel with no protruding bezel, buttons or knobs.

\* Naviop Knowledge always includes skilled customer care, worldwide service points and remote connection.



**+** Knowledge  
**Full Customer Care**

The Naviop Knowledge service follows you around the world. It is the professional help you need to fully utilise the power of the products with the least hassle.

**+** Knowledge  
**Service**

With more than 70 Naviop Service Points around the world, skilled technical staff are close to hand and ready to quickly solve any issues.

**+** Knowledge  
**Full Remote**

All devices are equipped with a VNC server enabling secure remote connection to the panel via PC through the ethernet connection.

The PC must be programmed with Naviop software, CodeSys with all updated libraries and the correct N-Design release. The technician can then enter the system and perform a runtime analysis.



# FACIAS AND INSTRUMENT PANELS

From simple switches to PLC programmed multi touchscreen displays, we can design the panel and layout of components to complement your interior, from a futuristic superyacht to a classic wooden yacht.

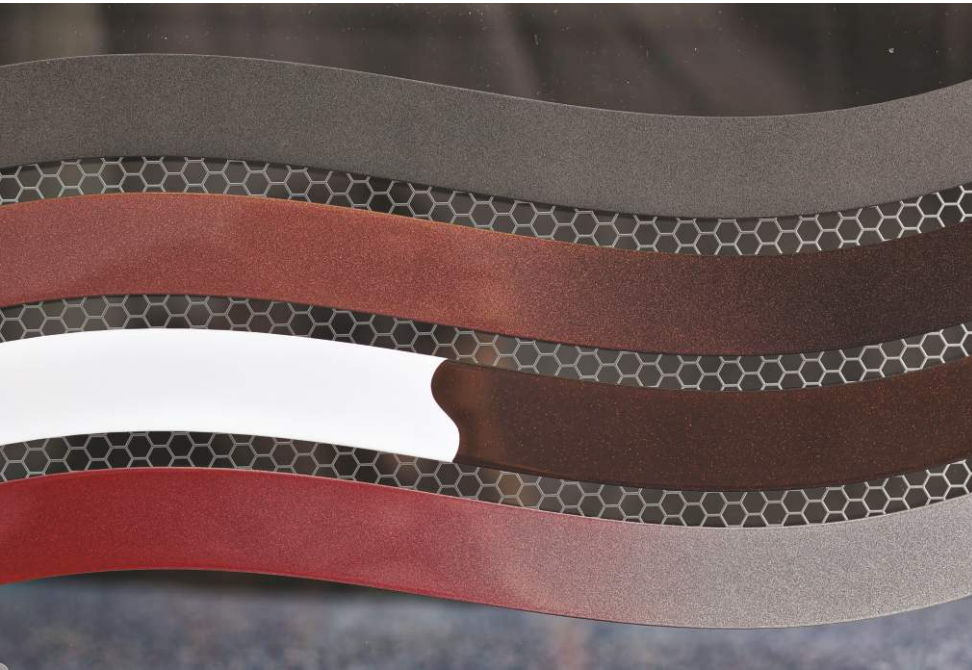
Our experienced team will work with you to present 2D and 3D CAD designs, rendered to look like the finished panel. You can choose almost any language and have the text illuminated in a range of colours.

Using our CAD CAM and laser machining equipment, panels are manufactured to exactly match the CAD designs. They are assembled by our specialist engineers and fully tested and inspected to ensure compliance with the design parameters and designated standards. Materials range from marine grade aluminium to high quality plastics and laminates.

We have long term partnerships with equipment manufacturers ensuring worldwide availability of spares, technical backup and compliance with international standards.



# FINISHES

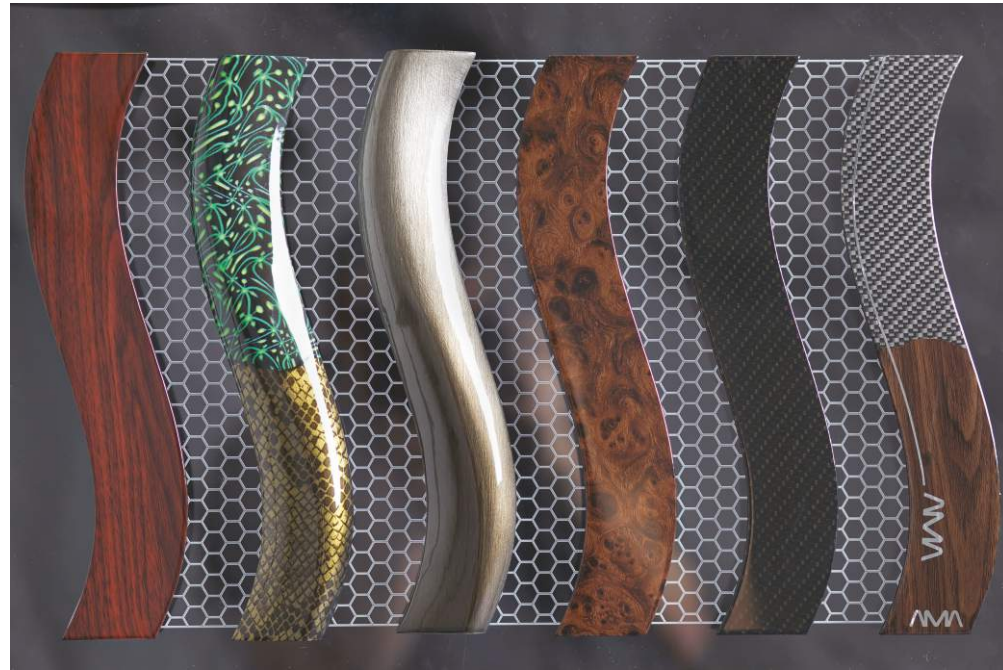


Customise your panels with our huge range of finishes, colours and patterns.

Whether you want an elegant look or something unique and quirky, there are thousands to choose from and we can even offer real wood and carbon fibre veneers.

Our range of finishes and application techniques ensure durability in both indoor and outdoor environments.

We can supply samples early in the design process to help you match your interior design.



Wet spray

Powder coating

3D hydrographic printing

Full colour UV cure printing

Pad printing

Thermal dye sublimation transfer printing

Various laminates

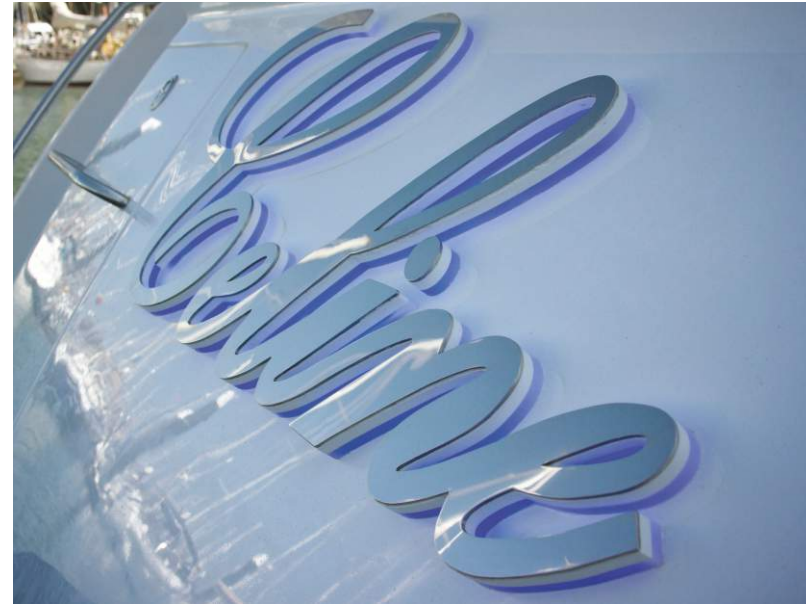
Laser Marking





## Boat Signs

A beautiful, bespoke yacht name is the 'must have' to make your pride and joy stand out in any marina. Using the latest LED technology we can create a boat sign that is elegant by day and has a stunning ambient glow after dark. Personalise your boat name with a choice of colours and stainless steel or powder coated aluminium facias. Gold plate is also available.



## Vinyl Wrapping

An effective alternative to painting, using vinyl wrapping we can create logos, images or details such as pinstripes on your hull or superstructure. You can even highlight specified areas of your boat using vinyl effects such as carbon fibre or brushed steel.



# Engineering Solutions

Our expert 'Engineering Solutions' division specialises in the design and manufacture of bespoke automated equipment. We can offer mechanisms customised for your particular needs. Dumb waiters can be supplied in segments for installation during the layered build of the vessel. We can also design automated TV lifts that won't compromise the aesthetics or space on board.

Dumb waiter  
Sliding doors  
TV lifts  
Privacy glass



## Our Showrooms

### 'The Bridge'

Come aboard 'The Bridge' showroom at our Plymouth headquarters. Designed to simulate all on board systems, visitors to the state-of-the-art showroom can take part in a truly interactive experience. Move water between tanks and control electrical circuits, simulate failures and alarms and enjoy a demonstration of our control and monitoring systems.

### Home automation afloat

Enjoy a luxury lifestyle afloat! Visit our showroom to discover how we can seamlessly integrate technology for comfort and convenience on board. Control of entertainment, room lighting, climate and security systems is available at the touch of a button or from your mobile phone. Experience the ultimate in home automation technology.



Contributed photos courtesy of Princess Yachts International PLC, Sunseeker International and Oyster Yachts

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