

**FURUNO®**

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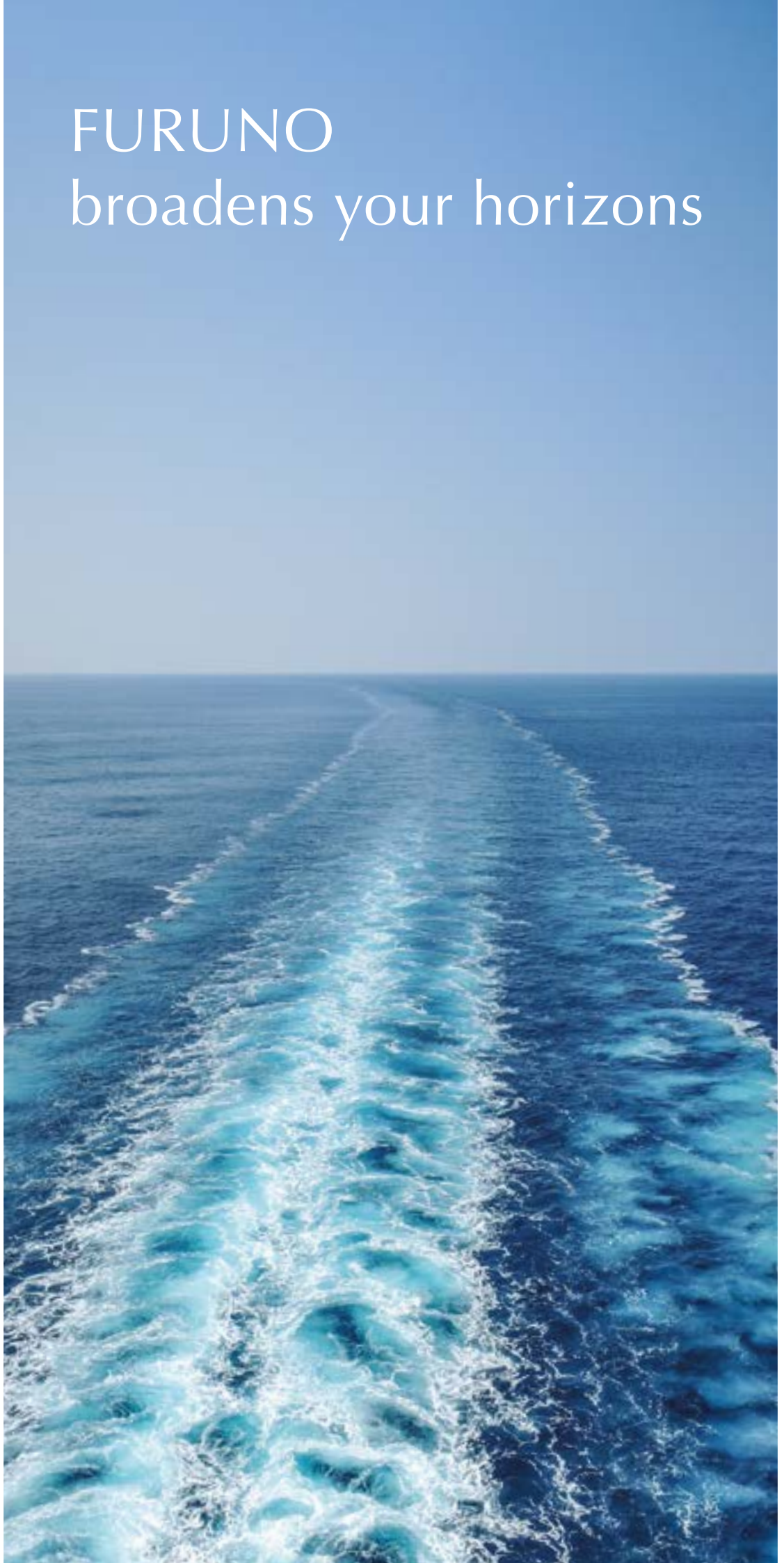
**BÖNING**



**INS VOYAGER SYSTEM**  
Navigation · Communication · Automation

**FURUNO ITALIA**

FURUNO  
broadens your horizons



# FURUNO

Since being founded in 1938, FURUNO ELECTRIC CO., LTD. has been dedicated to focusing on development, sales and maintenance of highest-quality marine electronic equipment for navigation and communication. The FURUNO group incorporates an international workforce of approximately 3.000 employees and subsidiaries direct offices in over 30 countries, who are all prepared to fulfill the needs and expectations of our customers. Launched in January 2014, FURUNO ITALIA S.R.L. is the Italian subsidiary of FURUNO ELECTRIC CO., LTD., which becomes part of the worldwide network by managing the market, distribution and service on the Italian territory. Thanks to the support of more than 36 specialized employees, our company can operate in four major market segments: mega yacht and super yacht, deep sea, work boats and fishing vessels.

The headquarters located in Gatteo, in the province of Forlì-Cesena, include technical and administrative offices, training rooms, laboratory and an extensive product and spare-part warehouse. FURUNO ITALIA S.R.L. has offices in Genoa, Viareggio and Naples with sales staff and technicians to ensure and meet the technical requirements of service and new installations. We also have an office organized for service in Augusta, Sicily.



# BÖNING

Böning's founding stone was laid in 1977 when the Engineering Firm Böning was formed. In 1996, it became the Engineering Firm Böning GmbH, and it was renamed to Böning Automations- technologie GmbH & Co. KG in 2003. From the onset, the development and manufacture of electronic devices and systems for ship automation was a major focus of all company activities. While originally rooted in commercial shipping, their involvement in the area of super and mega yachts since 1996 has also been successful. Today, their devices and systems can be found on more than 13,000 commercial ships and yachts. Incidentally, the bulk of these have been developed and manufactured in-house. To date, a staff of approximately 100, including about 20 engineers in the area of development alone, are employed in Ganderkesee in an area of nearly 4000 m2 for office, production, and storage space. Their formula for success include a close cooperation with their customers. This results in the production of practice-oriented, reliable devices and systems, and this positive synergy leads to the continued growth of our expertise. Here, we point out the integrated alarm systems which affect practically all areas of ships. As a rule, safety relevant devices and systems are type approved according to Germanischer Lloyd and other classification societies.





## INS VOYAGER BRIDGE

The INS Voyager Bridge is a mega yacht control system which combines the experience of FURUNO in navigation and communication systems for IMO vessels and the powerful BÖNING ship automation systems.

The INS Voyager System includes the last generation of FURUNO navigation wheelmarked approved systems such as chart radars (X and S band), ECDIS, navigational echosounder, GPS and D-GPS, doppler speed log, AIS, BNWAS, autopilot, gyrocompass and various sensors. The new TimeZero navigation software from MaxSea can also be added to the bridge together with other important safety devices like FURUNO and WASSP multibeam sonars.

This new mega yacht bridge system integrates all the BÖNING automation information. All the main controls are available in the helm panel and in the touch screen panel monitors controllers. The design of the bridge is ergonomic and it has been created to guarantee a very easy control for the captain and maintain safe navigation.

The new INS Voyager Bridge includes the Universal Control Concept, allowing the captain to control the navigation devices and the monitoring pages from the same trackball control unit. The FURUNO radar and ECDIS control keyboards are also available in the touch screen panels. The communication devices, like VHF radiotelephone, can also be controlled directly from touch screen panels.

### **NAVIGATION EQUIPMENT**

### **COMMUNICATION GMDSS EQUIPMENT**

### **SATELLITE EQUIPMENT**

### **SHIP AUTOMATION**

### **VIDEO SURVEILLANCE**

### **INTERNAL COMMUNICATIONS**

### **SAFETY**

### **ALARM & MONITORING**

### **DESIGN**

### **TURN KEY SOLUTIONS**

### **WORLD WIDE ORGANIZATION**



## FURUNO NAV-COM Equipment

All the latest generation of FURUNO navigation and communication equipment is integrated in the Voyager Bridge such as: chart radar X and S band, ECDIS, AIS, BNWAS, Doppler Speed Log, Navigation Echosounder and GMDSS equipment.



## FULL CONTROL FROM A SINGLE STATION

Within the INS Voyager Bridge is possible to take the control of all the bridge functions from a single station. The captain can operate on the navigation equipment or on the AMCS system using the same keyboard, trackball or touch screen controls. These Universal Control Concept features are already highly appreciated from captains and officers as they can have same user interface for all the main systems on the bridge.



## TOUCH SCREEN CONTROL

In the Böning touch screen control panels all the main devices can be controlled such as radar/ECDIS virtual keyboard, monitors video matrix control, AMCS, wipers, horn, search light, anchor, etc. For a safe navigation the main controls are also present in the foil helm panel.



## FOIL CUSTOM-MADE HELM PANEL

The fully custom-made helm panel consists of a metal support structure with a foil surface finish. Our solution combines the integration of the controls and a highly personal wheelhouse design. All the main control keys, control trackballs, monitors and joystick have the same design. Third party items can also be mechanically integrated in the helm panel. Design, layout and position of the controls can be defined together with the customer and the captain for a high level bespoke solution. Outdoor custom panels can also be designed for wings stations and fly bridge consoles..

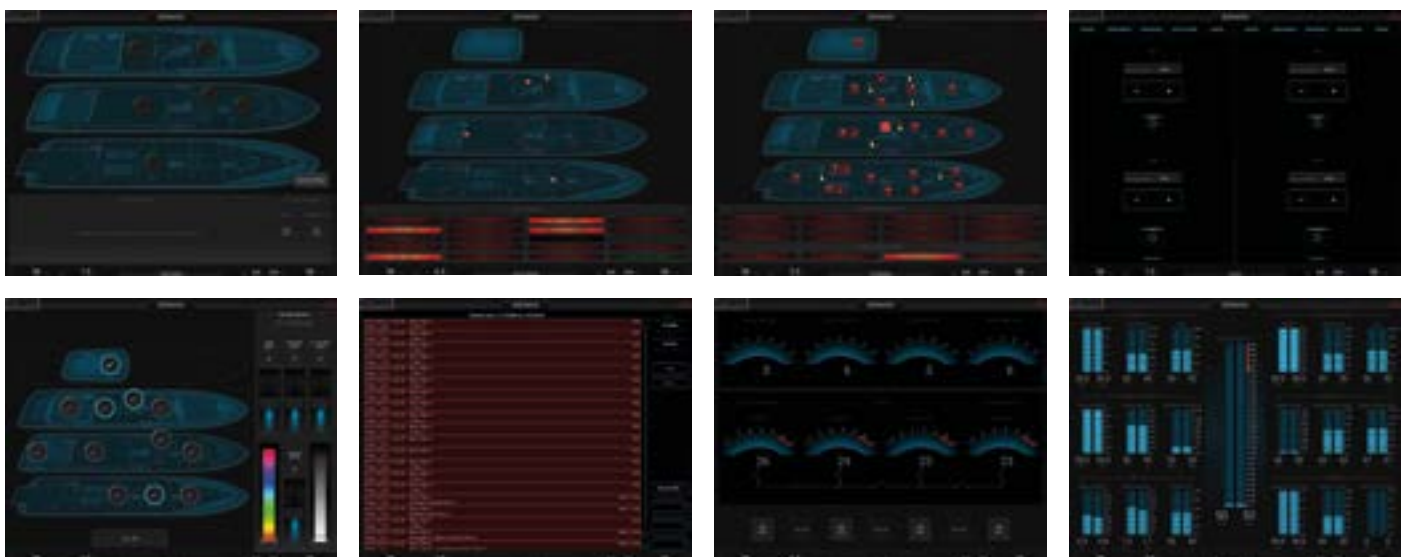
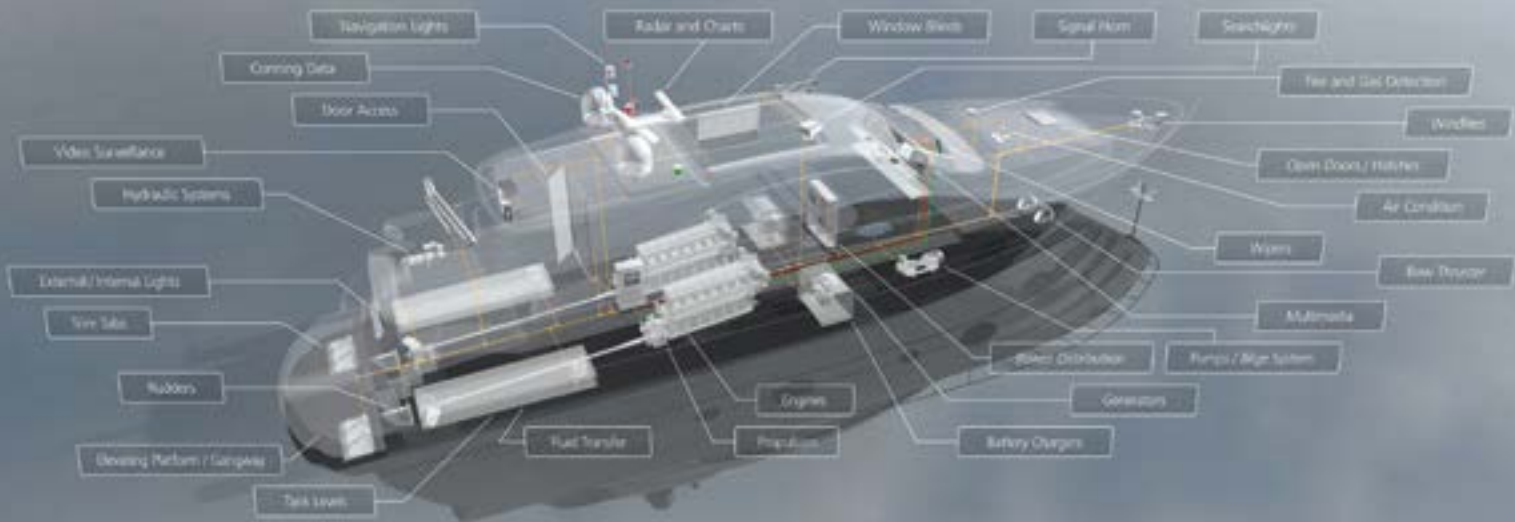


## MONITORING AND CONTROL PAGES

In case of BÖNING ship automation systems, the monitoring pages can also be fully customized according to captain and ship yard requests.



# NAVIGATION and AMCS pages – same design and same user interface







Unique control panel design



Wide screen IMO approved



Slim display 30 mm



Commune console design for all the equipment



Virtual ECDIS / Chart Radar keyboard control on the touch screen monitors



Original Chart Radar / ECDIS keyboards fully integrated in the helm panel



# FURUNO VOYAGER

The next generation bridge system

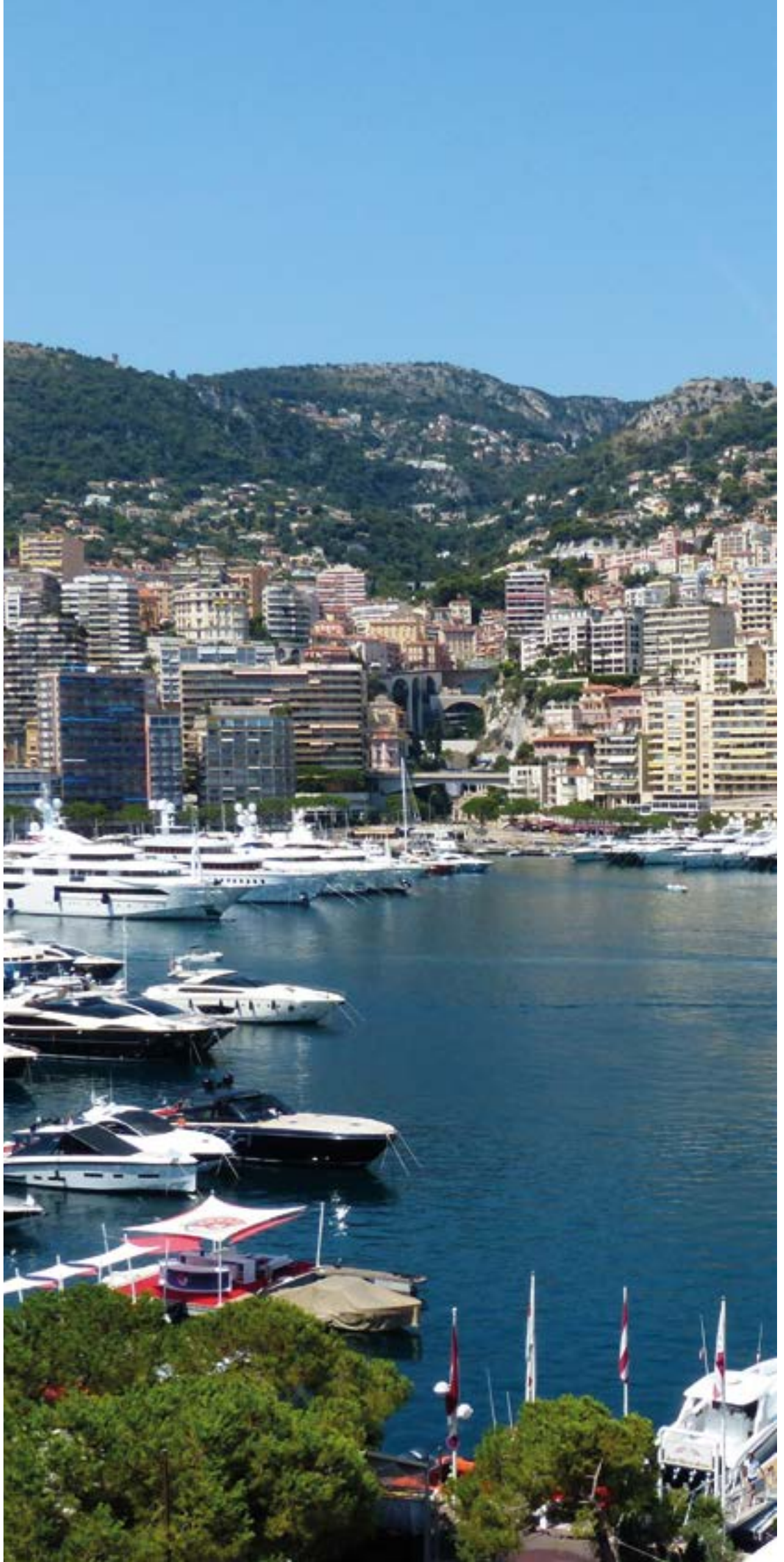


Fully customized control and monitoring pages



Smart integration of autopilot display and other devices







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