Axis video surveillance has the wind in its sails with Italia Yachts.

Axis network cameras and the HSYCO supervision system provide an innovative, integrated,energy-autonomous design, suitable for small sailboats.



Organization:
Italia Yachts

Location:
Chioggia, Italy

Industry segment:
Commercial

Application:
Sailboat security, energy efficiency

Axis partner:
Home Systems Consulting

Mission

The owner of the Sparks sailboat, from the Italia Yachts shipyard, decided to create a lightweight, integrated system that was competitive in terms of cost, bulk and technical features even for small sailboats, and was equipped with innovative devices including IP cameras. As a partner of Home Systems Consulting, the company that took care of the technological control, energy management and supervision systems for the boat, he chose to work with the best partners available on the market to achieve this goal.

Solution

Designed by Home Systems Consulting, an Axis Communications technological partner, the system enables the integration of advanced solutions without distorting the overall design and characteristics of the boat. Video surveillance is provided by two AXIS P3904-R Network Cameras, suitable for use in a marine environment, which have been positioned on the mast. For supervision, the HSYCO system was used to create a perfectly integrated and web-based graphical control interface that is easy to use.

Result

The adopted solution offers the nautical sector an innovative design, which integrates some of the best technologies on the market at a price suitable even for small boats. Special attention was given to energy consumption and to security, ensured by high-quality cameras that can be used in a secure manner locally or even remotely.

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"The image quality and reliability of these cameras is astounding. Video surveillance is also of interest for the sports aspect of sailing. In fact, the cameras record continuously during navigation, both for reasons of safety and for checking how maneuvers are carried out."

Ulderico Arcidiaco, Sparks owner.

Boats have always been an area of interest for the world of automation, but the available solutions are often reserved for high-end shipbuilding. In addition, experiencing life at sea has changed a lot with the spread of yachting, where the majority of owners only occasionally use their boats, which inevitably remain moored at the marina otherwise.

Italia Yachts' Sparks project is truly innovative: a lightweight, integrated system that, in terms of cost, bulk and technical features, is also suitable for small boats. "This is an entirely new installation for the sector because it concerns a sailboat of only 11 meters. In this type of boat, the costs often represent an insurmountable obstacle, whereas we've managed to achieve a complete and efficient end solution thanks to the first-rate technologies we've installed," stated Franco Corazza, Italia Yachts Srl company owner.

The pioneering craft is an Italia Yachts 10.98 sailboat. The owner, one of the partners of Home Systems Consulting, which handled installation of the control, energy management and video surveillance systems, was looking for a solution that was self sufficient from an energy standpoint, of small bulk and low weight, which could be managed both onboard and remotely in a simple and secure manner, and was suited to the difficult marine environment. To achieve this objective, latest-generation, extremely low-consumption components were used together with solar panels for energy autonomy.

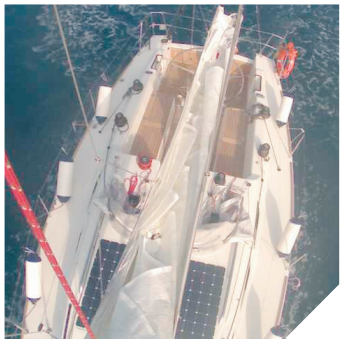
For broadband connectivity, a 3G/4G router was chosen with LTE (Long Term Evolution) connectivity that integrates a Wi-Fi access point and a 12-channel GPS receiver. The equipment allows remote access, on-board generic Internet connectivity and GPS localization independently of the navigation instruments.

"With their IP67 protection rating, I could install two compact and low-consumption AXIS P3904-R Network Cameras directly on the crosstrees of the mast, exposed to the rain and difficult conditions of the marine environment," commented Ulderico Arcidiaco, Sparks owner.

A PoE switch connects the external cameras to the network so that any Wi-Fi device can access both the navigation data and the images of the external cameras, as well as multimedia content.

"It is possible to check the boat remotely, both for technical parameters (state of battery charge, systems, lights, etc.) and, above all, for video surveillance, especially at night when the boat is berthed, thanks to the possibility of switching on the boat's lights manually or according to a specific scenario," the owner added.

For automation, a HSYCO supervision system was installed, with which a completely integrated, web-based, graphical control interface was created, usable in a secure manner either locally or remotely. The system manages lighting, video surveillance, speech synthesis, navigation data (speed, heading and distance), meteorological data, ship's log, maintenance log, schedule, anchor drift detection, charge state of the batteries, energy consumption, solar panel output, status of 4G connections and input/output traffic. All manuals of the systems installed on board can be accessed directly from the control interface for complete customer satisfaction.





"We have been an Axis partner for a number of years. The broad product range lets us identify the solution closest to the client's needs, even for special and innovative installations. Some of the qualities that we appreciate the most are product consistency, support and care for its partners," says Maria Chizzali, VP Marketing and Sales, Home Systems Consulting S.p.A.

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