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EDITOR'S PICKS
INFOTAINMENT SYSTEMS

SuperYacht

i n d u s t r y

— Twilight —

Twilight

OYSTER'S BIGGEST

Sublime Transformation

DREAMS TO REALITY

Riviera Refit

WHERE SUPERYACHTS GET PAMPERED



A HI-TECH MULTIMEDIA EXPERIENCE

Devoted to ENTERTAINMENT

THE OWNERS OF A NEW 47M SAILING YACHT UNDER CONSTRUCTION AT A DUTCH SUPERYACHT YARD HAD VERY CLEAR EXPECTATIONS FOR THEIR CUSTOM ENTERTAINMENT SYSTEM. COMBINING EXCLUSIVITY, performance and respect for design, the skilled craftsmen at TAV Systems – a subsidiary of Tijssen Elektro – rose to the challenge. This was the latest in a long line of projects for the company. Eddy Huisman, General Manager Engineering of Tijssen Elektro discussed the fast-moving field with SuperYacht Industry's Anoeska Maaskant.

The Netherlands-based Tjissen Elektro supplies and installs integrated electrical systems. For 40 years now, their specialists have navigated the world of alarm and monitoring, integrated navcomms and audio-video (AV) systems for a wide-ranging maritime market – including superyachts. But as today's superyacht industry is more and more about luxurious, high performance and beautifully designed custom multimedia applications, Tjissen Elektro wanted to set up an independent company to specialise exclusively on the superyacht AV segment. No sooner said than done, in 2013 TAV Systems was born. Working on refits as well as new build superyachts in the range of 25 to 65m, the young independent company is exclusively dedicated to the growing field of AV and marine electronics.

AV on Demand

Today's superyachts require exclusive AV systems, perfectly integrating the latest must-haves in the field of marine entertainment and the burgeoning infotainment market. TAV Systems supplies and installs such systems, whether stand-alone or fully integrated. With their wide range of equipment, they can provide all applications to meet owner requirements. With a personalised, exclusive system, every area in a yacht has access to streaming video and music on demand. Eddy Huisman commented, "Via independent multimedia stations and super-speed Ethernet connections, each individual cabin has access to the centrally located entertainment library."

To complete the service additional music and movies like DVDs or Blu-Rays can be stored to the facility as desired and there is the possibility to integrate additional servers to the system for increased capacity. To make it an all-round experience, all systems including TV, multimedia stations, HD LED TV screen and radio are connected to the amplifier. In every cabin of the yacht, guests can lie back and enjoy the music through custom-made, built-in ceiling loudspeakers. All this is made possible because the entertainment library connects to the HD multimedia stations via a local area network (LAN).

Internet & Satellite TV/Radio

"These days there is nothing more important than having an Internet connection at all times," noticed Mr Huisman. "That is why TAV Systems installs a permanent, high-speed Internet connection with



**Eddy Huisman,
General Manager
Engineering of
Tjissen Elektro.**



unlimited access throughout the yacht."

In fact, the onboard LAN connects to the yacht's satellite communication system and gives all guests and crew comprehensive high-speed Internet access. >>



19" racks
AV installation
on a 42m
motoryacht.

All of this works through the fixed data outlets and wireless access points, distributed throughout the yacht. For guests to enjoy the TV and radio, the satellite receiver connection – which can switch between EU and US receivers – provides access via a signal distribution system and the shipboard LAN network. This way there is continuous access to the ‘free-to-air’ channels. To complete the technology package and to fully experience the value of high quality television, there is the option to add a dedicated satellite receiver in order to subscribe to exclusive encrypted channels.

Intuitive Controls

With just one click on the WiFi tablet controller, a superyacht guest has access to the full multimedia experience. The exclusive controller is available in a wide range of models and sizes to meet the owners’ demands. To ensure user-friendly high-end control there is a specially developed, easy-to-use user interface aimed at providing all-inclusive technology. Even the programming of the custom-made system is straightforward and intuitive, enabling guests and children to use the controls and enjoy the entertainment system with no prior training.

Customised Systems

The high-end customised entertainment systems are set apart by an array of wide-ranged >>



TAV Systems' customised testing facility.

opportunities, courtesy of a broad selection of equipment such as top-notch speakers, amplifiers and TV screens – including diverse LED televisions in various sizes and designs all for the owners' benefit. And when you think you have seen it all, there is also the possibility to incorporate projectors into the AV system.

"Over the years we've noticed that the incorporation of a TV lift system is becoming a regular feature on our customisation projects," said Mr Huisman. "This ranges from standard in-wall installations to the ceiling or sometimes we even implement rotating lift systems, this totally depends upon the space that is available in the yacht and the specific quality requirements."

To make the best fit possible, TAV Systems works in close cooperation with the shipyard responsible for the build – particularly when it comes to fitting TV lift systems. Another important feature that needs to be customised is the programming. Mr Huisman said: "When we need to adjust the programming we always send out a fully trained engineer, whether we need to programme the tablet controllers or the operational system additional to the AV. Because there is a lot we have to regulate according to the specific requirements of the owner, such as personal light management, blind operation options, heating systems or crew calls."

Service & Maintenance

Once the whole customised entertainment system is delivered and installed, the Tjsssen Elektro aftersales

department will take care of any maintenance or enhancement requirements for the AV system.

According to Mr Huisman, the aftersales care can be carried out alongside aftersales that will be provided for other Tjsssen Elektro systems on board, such as electrical, MPA, navigation and communication systems.

"Our highly trained engineers operate internationally, so they will only be one call away," Mr Huisman mentioned. "Trained to carry out maintenance and service requirements, they can add special functions to all systems within the Tjsssen Elektro range whenever necessary."

The Consortium

"To use all our knowledge just within Tjsssen Elektro and TAV Systems would be a shame," said Mr Huisman. "That is why Tjsssen Elektro and TAV Systems have teamed up with fellow Dutch company Aage Hempel and Spain-based e3, to form a all-embracing partnership billed as The Consortium." The partnership aims to provide a new build and exclusive service that spans the entire lifecycle of a yacht.

i. www.tjsssen-elektro.nl