



entertainment systems



yacht installations

Tijssen Elektro's Entertainment Systems

Tijssen Elektro's MPA system has been developed as a technical tool to optimize a ship's safety and performance. However, multimedia applications such as Internet, audio/video, satellite TV, etc. can also be linked into this system's technology, making a full entertainment program available to guests and crew. The supply and installation of integrated entertainment systems is one of the company's growing activities.

Audio/Video

Entertainment systems, whether or not linked into the MPA system, are based on a local area network (LAN) and provide streaming video and music-on-demand. On a central server, captain and crew can store DVD movies as well as CD/MP3 music. Each cabin has access to a comprehensive entertainment library. When linked into the MPA system, any multimedia application used by crew members will be interrupted in case of an alert, until the alert has been dealt with.

The server's technical details

The main library of the entertainment system is located on a server placed on location in the yacht. Its average memory capacity is 2 Tera Bytes. This can be extended to 4.5 Tera Bytes, which will store approximately 900 DVDs or 8,000 CDs. It takes approximately 20 minutes to store a DVD on the hard disk. The server is standard equipped with a double redundant RAID-6 fault tolerance system and is capable of handling 7 up to 20 HD video streams. This means that videos can be watched at a maximum of 20 cabins simultaneously, starting at different time intervals. Via a fast Ethernet connection, each cabin has direct access to the library. Music or movies can be started at any time.

Highest standard AV

The HD client multimedia stations in the cabins are connected to an AV amplifier and a HD LCD TV screen. All music, satellite TV and radio are amplified by the amplifier. The guest areas and the master area contain the highest audio/video standard. The HD client multimedia stations are Blu-Ray ready, the future standard for DVD. For music-only areas, such as the galley, pantry, laundry etc., a zone player system can be used. With this zone player, in combination with a remote control, music can be locally selected from the server.

Access to the Internet and to satellite TV/Radio

Tijssen Elektro's entertainment systems also provide a permanent, high-quality and high-speed Internet connection. Via the LAN network, which is connected into the ship's satellite communication system, guests and crew have access to the Internet and e-mail, not only via fixed data outlets in the cabins, but also via wireless access points all over the yacht. Access to satellite TV/Radio is possible by means of a connected satellite receiver (capable of switching between EU and US receivers), a satellite signal distribution system

and the shipboard high-speed LAN network. The decoders receive all 'Free to Air' channels. In order to receive encrypted pay TV channels, a subscription to these channels and a common interface module need to be arranged.

Remote control

The entertainment system can be controlled by means of a user-friendly handheld color touch panel based on radio frequency. There is a wide choice of models, from straightforward to state-of-the-art remote controls with hard keys and touch screen panels. The remote controls can be fully programmed to comply with the owner's wishes, with control of lights, blinds and TV lift. Even a crew call function can be programmed. By pushing a function key, the crew can immediately respond to the call.

Custom-built system

Tijssen Elektro offers a wide choice of speakers, AV amplifiers and television screens. Therefore, the entertainment system is very flexible and can be fully custom-built. Television screens can be delivered in different sizes, and a wide variety of both LCD and plasma screens is available. Even the use of projectors is within reach. In close collaboration with the shipyard, TV lift systems are very often implemented, from standard in-wall lifts to ceiling and/or rotating lift systems. With regard to the AV amplifier and speakers, both available space and quality play an important role. Obviously, a system that will be used in the salon must have other qualities than a system that is used in the crew cabins.

Service and maintenance

Tijssen Elektro's after-sales department takes care of all questions and enhancements of on-board systems deliveries. Not only of the electrical systems, MPA, navigation and communication systems but also of the entertainment system. Specially trained engineers travel all over the world to carry out service and maintenance jobs on board. With their valuable experience and input, Tijssen Elektro's engineering department is able to modify or add special functionality in any system.

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