Digital Video System "MRX.marine"

AZG Tech

The camera system presented here is a modern, robust and user-friendly solution that has been specially designed for maritime use.

It combines high-quality hardware with flexible software to ensure reliable monitoring and control under the most demanding conditions – whether in heavy seas, strong winds or changing light conditions.

The system comprises nine high-resolution cameras strategically positioned on the crane, winches and hook to provide a complete 360-degree view. The cameras deliver real-time images that are displayed on two 27-inch monitors. These monitors not only provide a clear and precise display, but also allow the operator to individually align, zoom or view individual images using the intuitive joystick control. This gives the crane operator the optimum perspective for his work at all times – whether precisely positioning the load or monitoring the winches.

At the heart of the system is a powerful PC with an integrated video recorder, housed in a seawater-proof enclosure. This enclosure is designed so that it can be mounted both inside and outside the cab. The video recorder stores the recordings from all cameras for up to 12 days, so that historical data can be accessed if necessary.

A particular advantage of the system is its modular design. Digital nodes on the boom and in the cabin create a LAN-like structure that significantly reduces installation costs. Fewer cables, less time – and yet high-performance networking of all components. This approach not only allows the system to be installed quickly and efficiently, but also offers the flexibility to integrate additional cameras or modules at a later date without having to fundamentally change the existing infrastructure.

Thanks to the modular design, individual adjustments can be easily implemented. Instead of redesigning the entire solution, the distribution nodes can be adapted and modified. This enables tailor-made variants that are precisely tailored to the specific requirements of the customer – whether for different crane models, areas of application or additional functionalities.

With this camera system, you not only get a technically mature solution, but also a future-proof system that can be adapted to changing requirements. It combines robustness, flexibility and user-friendliness – for safe and efficient work at sea.

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