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Overhead Panel in the Wheelhouse

▸ Overview

Important navigation data of ships during navigation are displayed through the Overhead Panel, such as engine speed, wind speed and direction, roll and pitch, etc., which are all displayed through pointer type instruments. Usually, this type of instrument can only be viewed horizontally, and the readings can only be estimated, which cannot accurately reflect the actual data size, resulting in certain errors and poor reliability.

The overhead panel in the wheelhouse is installed at the front top area of the wheelhouse. It obtains information from the integrated platform management system via an Ethernet interface and adopts a slim-bezel integrated LCD display. Navigation status, propulsion conditions, safety information, and fault alarms are presented in a graphical manner, enabling all crew members in the wheelhouse to intuitively understand critical navigation information and make informed navigational decisions.

The overhead panel in the wheelhouse adopts an LCD display that supports night navigation mode, featuring a high-resolution screen for centralized presentation of ship navigation, propulsion, and other key information. With enhanced visual and animated effects, it fully meets the current development trends of ship networking, informatization, and intelligentization.

▸ System architecture

The Overhead Panel in the Wheelhouse is mainly composed of an integrated display screen installed on the top of the cab, a remote control, an industrial computer, and a centralized control module installed on the dashboard.
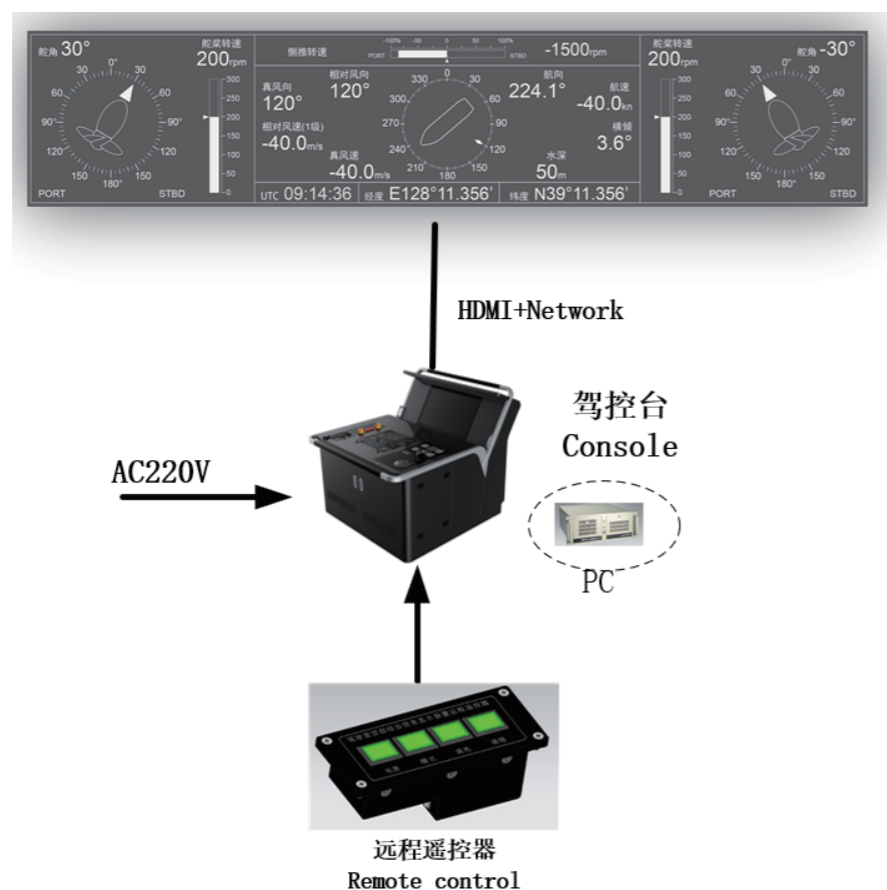

Figure 1 system composition block diagram

▸ Product features

■ Compact and lightweight structure;
■ Adopting a narrow bezel display screen with a resolution of 3840x720;
■ Satisfy the night navigation needs of ships, with adjustable brightness;
■ Modular design with strong scalability;
■ User friendly interface design and easy operation;

▸ Product function

■ Real time display of navigation, progress, time and other information in a graphical manner;
■ Support brightness adjustment of the display screen to meet nighttime navigation needs;
■ Switching between daytime, dusk, and nighttime modes through a remote control;

▸ Technical index

■ Integrated narrow border display screen

○ Data refresh time：≤1S;
○ Dimensions:
　Length x width x thickness: 1450mm×300mm×49mm;

■ Remote control:

○ Resolution: 3840x720;
○ Installation method: Ceiling mounted installation;
○ Protection grade: IP20;

○ Dimensions:
○ Length x width x thickness: 220mm×70mm×65mm;
○ Installation mode: embedded;
○ Weight: ≤ 2Kg;
○ Protection grade: IP20;

■ Centralized control module:

○ Dimensions:
　Length x width x thickness: 640mm×510mm×155mm;
○ Installation mode: embedded;
○ Weight: ≤ 10Kg;
○ Installation form: wall mounted;
○ Protection grade: IP20;
○ Industrial computer:
○ Dimensions:
　Length x width x depth: 483mm x 176mm x 450mm;
○ Installation form: rack mounted;
○ Protection grade: IP20;

▸ Priduct composition

Serial number	name	Type	Number	Remark
1	ntegrated narrow border display screen	GR-Display	1	Resolution: 3840x720;
2	Remote control:	GR-YCYKQ	1	
3	Centralized control module	GR-JZKZ	1	
4	Industrial computer	CR-4503P	1	

▸ software interface