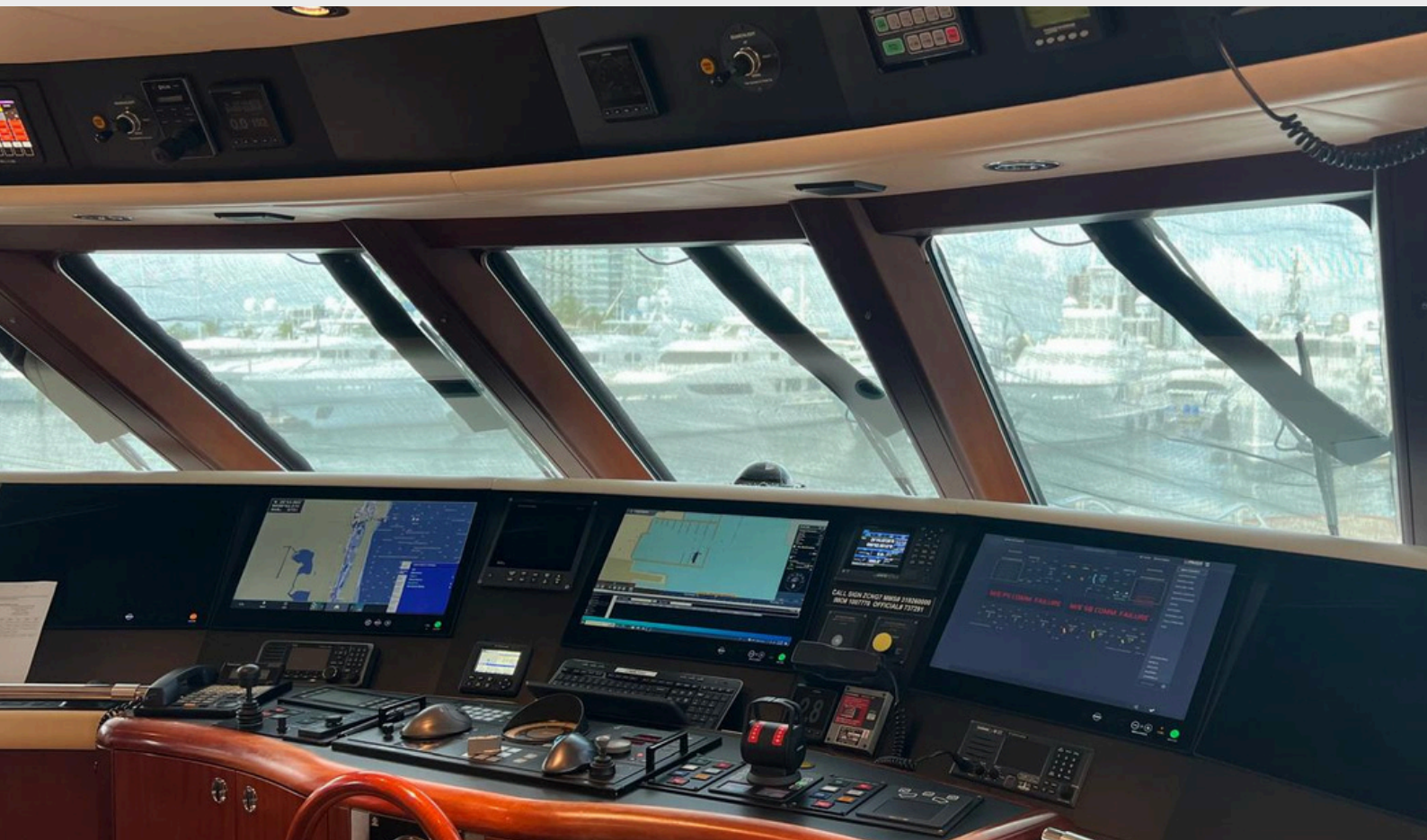




PRODUCTS



**OUR RANGE OF NAVIGATION AND
AUTOMATION SYSTEMS.**

ABOUT

At our company, we specialized in comprehensive refit projects that improve the functionality and performance of any type of ship.

- innovative **ship automation** navigation equipment
CCTV/Audio/Network systems for all types of vessels.



Expertise and Training

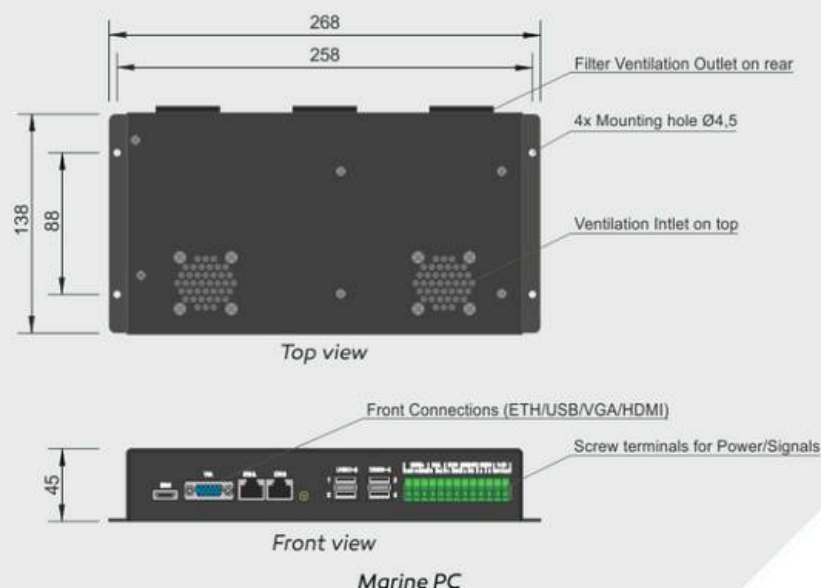
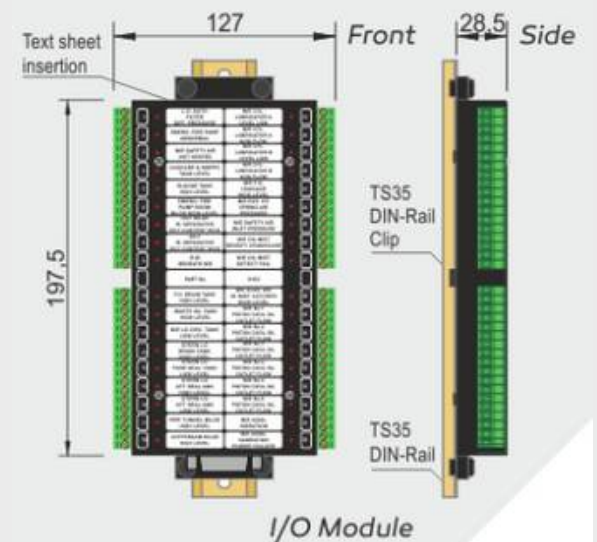
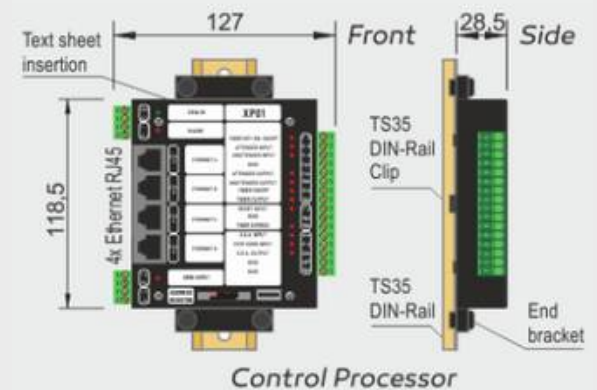
Our engineers are extensively **trained and certified in the latest technologies** and best practices in the industry. They possess in-depth knowledge and hands-on experience in various aspects of ship and yacht automation, navigation equipment, and CCTV/audio systems.

1.Vessel Management System (VMS/AMS)

The Mega-Guard Vessel Management System (VMS/AMS)

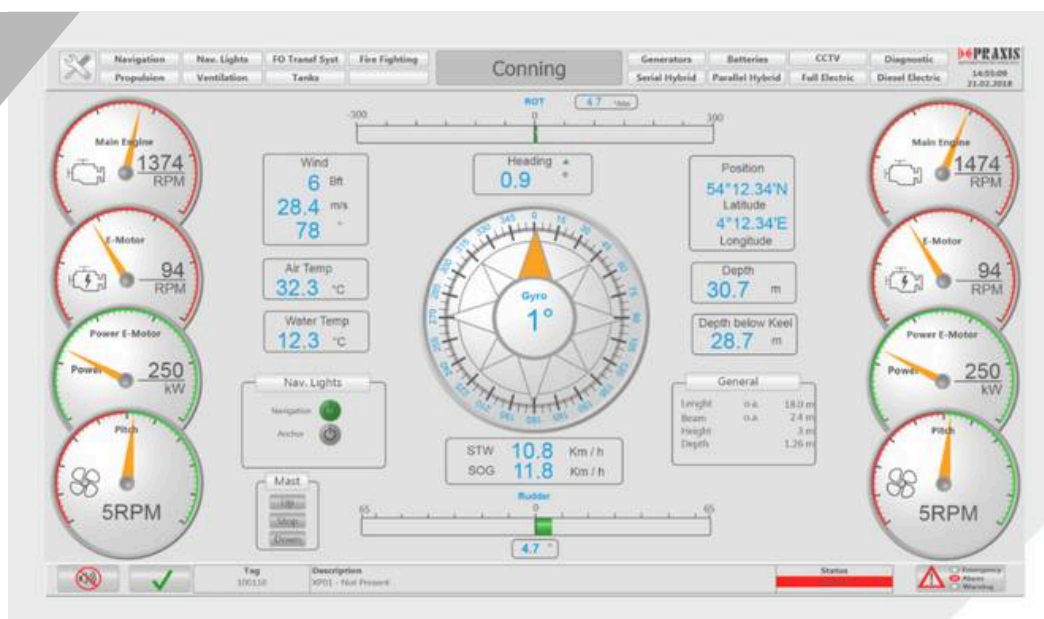
Is an advanced system for perfect ship automation for medium to large size ships. Mega-Guard VMS is a modular system which can be tailor made based upon ship's automation requirements. Often realized functions with Mega-Guard VMS include the following:

- Alarm and monitoring system
- Extension alarm system
- Valve, pump and fan control
- Cargo control and monitoring
- Tank gauging
- Fuel oil transfer
- Automatic ballasting
- Anti heeling
- Firefighting
- Conning



- **Mimics** are designed in close cooperation with ship owner
- Colors, fonts and symbols are freely selectable
- Direct swiping to Alarm Page and Main Overview Page
- 3D effects can be applied in the mimic
- Intelligent zooming with additional info layers
- CCTV cameras embedded in the mimics

Example mimics

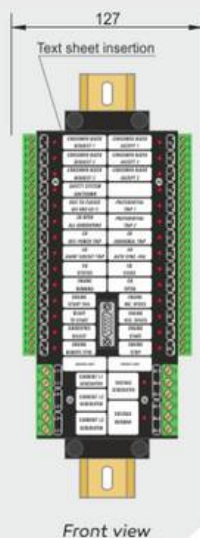
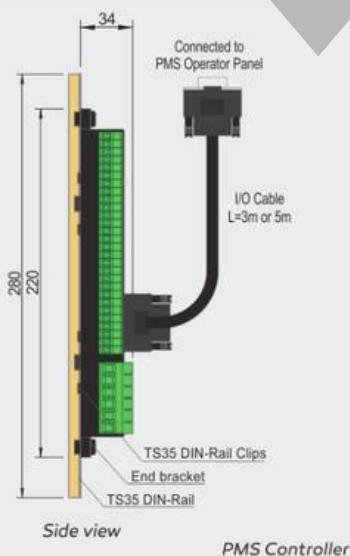


2. Power Management System

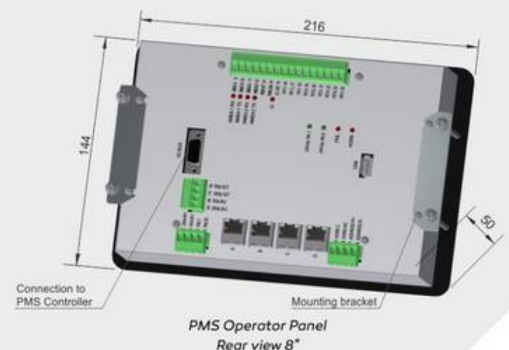
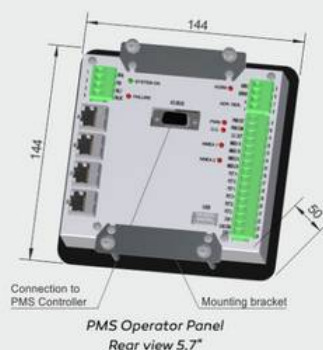
The Mega-Guard Power Management System (PMS) is an advanced system for full automation of power plant, including power management, diesel engine control, generator control, synchronizing, generator protection and optional diesel engine safety system.

Mega-Guard PMS is built-up with the following three items for each generator:

- PMS Operator Panel for flush panel mounting in switchboard
- PMS Controller for DIN rail mounting inside switchboard
- I/O Cable interconnecting the PMS Operator Panel and the PMS Controller



PMS
OPERATOR
PANEL



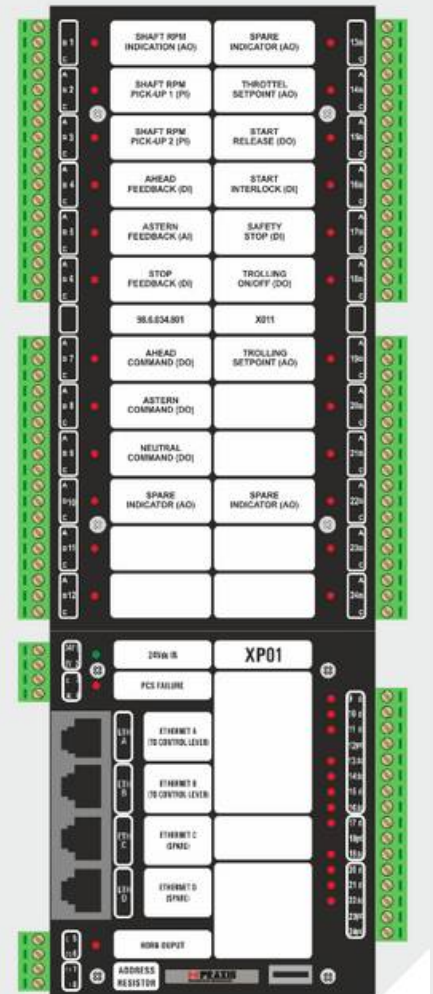
3. Propulsion Control System

Propulsion Control System (PCS)
for automation of all types of main
propulsion and engines.

- The Mega-Guard Propulsion Control System (PCS) is an advanced system for perfect remote control of thrusters and engines. Propulsion plants are available in many variations which are all covered by Mega-Guard PCS. Example propulsion configurations include:
- Mega-Guard Propulsion Control System is built-up in a modular way suitable for all ships and applications.
- The PCS includes remote control, engine safety, RPM/pitch indication, telegraph and electronic governor functions.
- The Mega-Guard PCS receives orders from the Control Levers on the bridge and in the control room.
- The remote control system gives a thrust (RPM and/or pitch) setpoint and activates starting, stopping and reversing mechanisms. Steerable thrusters (azimuth control) are also supported by Mega-Guard PCS.



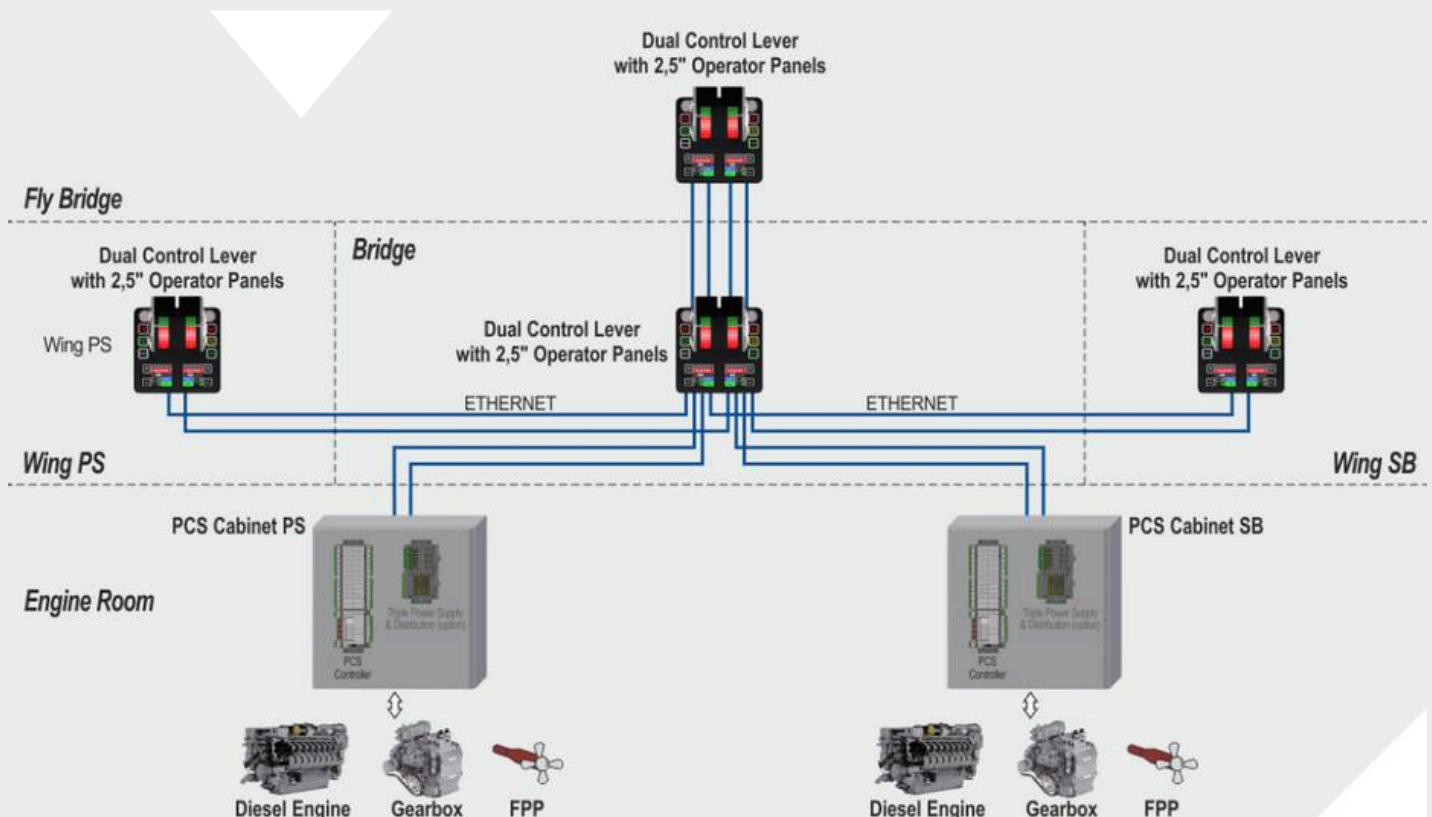
PCS Controller



Mega-Guard PCS is built up with the following main components:

- PCS Control Levers flush panel mounted in bridge, bridge wings and ECR console
- PCS Operator Panels flush panel mounted in bridge, bridge wings and ECR console
- PCS Controller installed in PCS Cabinet or bridge or ECR console
- PCS Triple power supply with power distribution (optional)
- Non follow-up control (optional)
- RPM, pitch and steering indication (optional)
- Emergency Telegraph (optional)

PCS for yachts and small vessels



4. Navigation Light Control

The Mega-Guard Navigation Light Control System (NLCS) controls up to 48 navigation lamps.



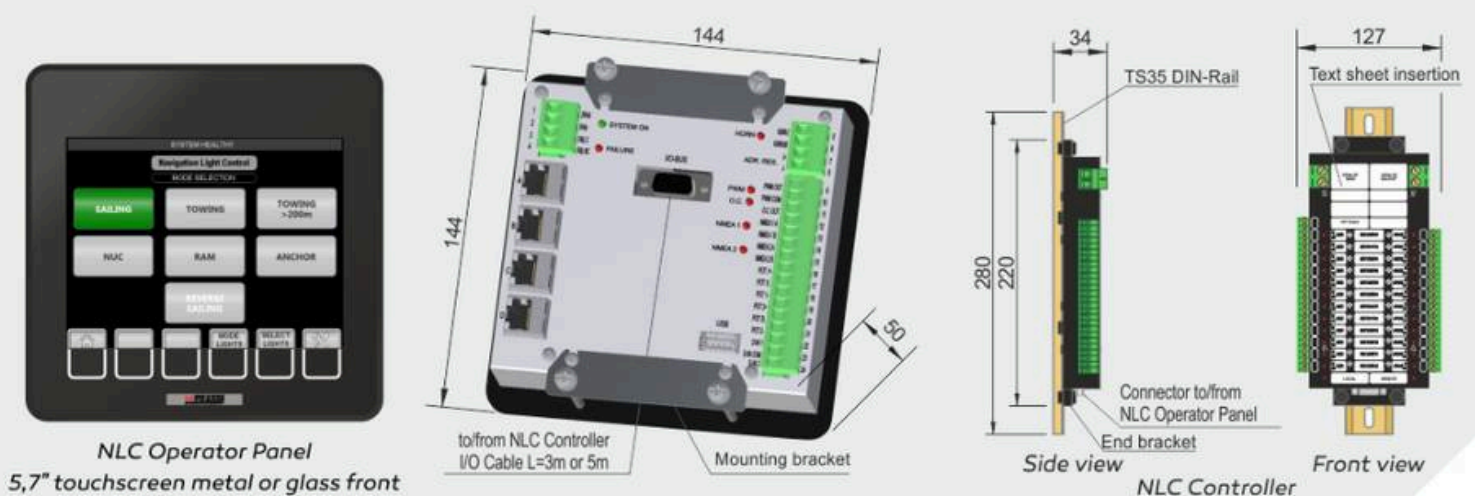
The system has two outputs for each navigation lamp: a Main lamp output and a Spare lamp output. Each navigation lamp has its own on/off button. A number of navigation lamps can be grouped together (e.g. free sailing, towing) for simultaneous on/off control. The Mega-Guard NLC supports the following lamp types:

- LED; 19~32VDC; Max. 60W
- Bulb; 19~32VDC; Max. 60W

The Mega-Guard NLC consists of the following items:

- NLC Operator Panel for flush panel mounting in bridge console
- NLC Controller for din-rail mounting inside bridge console
- I/O Cable connecting the NLC Operator Panel with NLC Controller

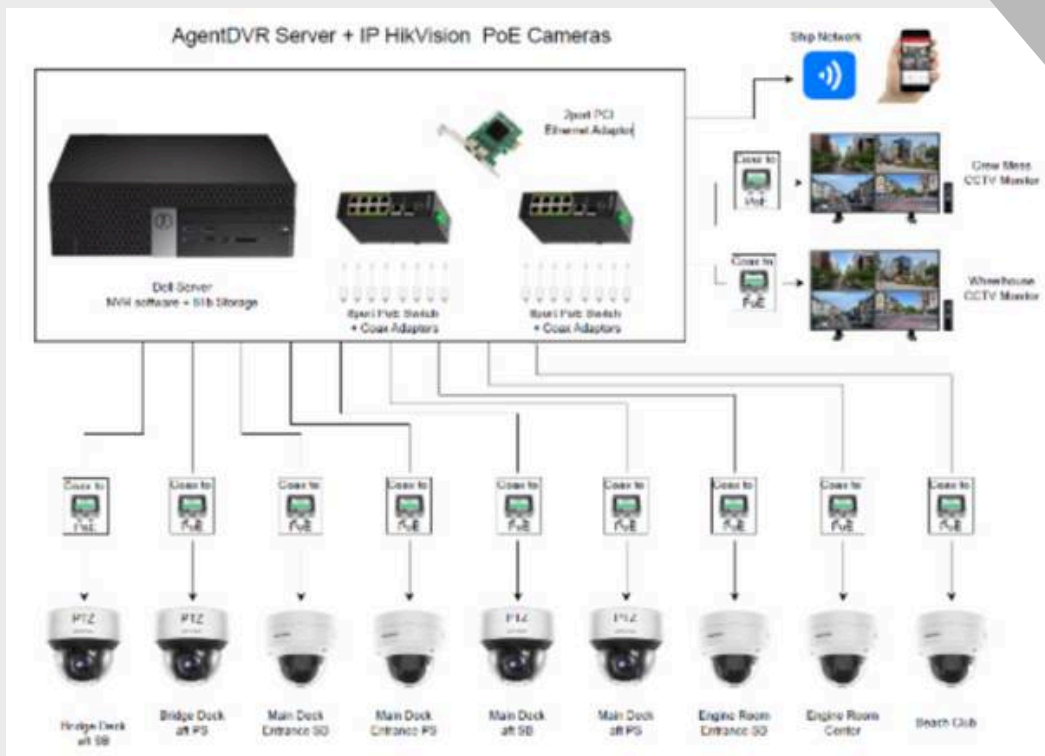
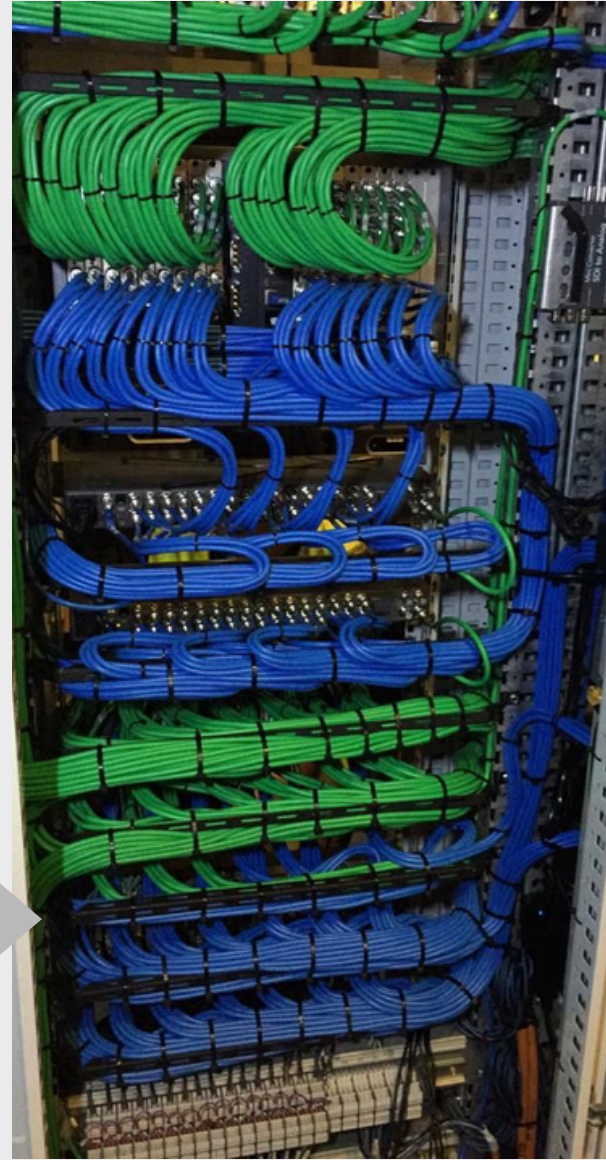
Mounting & dimensions



5. CCTV -Network Systems

To further ensure the safety and security of your vessel, we provide robust CCTV and audio systems tailored to maritime environments. These systems offer:

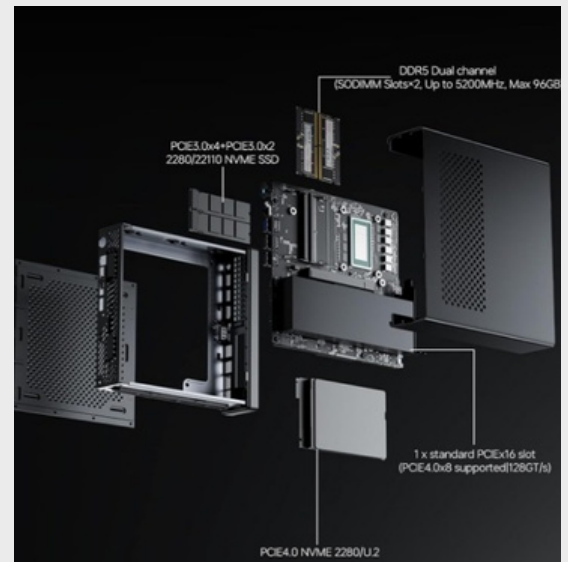
- **Surveillance:** Comprehensive video surveillance to monitor all areas of the vessel, deterring unauthorized access and enhancing onboard security.
- **Communication:** High-quality audio systems for clear communication between crew members, essential for efficient operation and emergency situations.
- **Recording:** Reliable recording solutions for incident documentation and review, aiding in investigations and training.



6. Remote connection system (RCS)

Remote Monitoring and Control:

Enable remote access and control of ship systems, providing operators with real-time data and the ability to make informed decisions from anywhere in the world.



**Internet connection is necessary to receive notifications and alarms when not onboard.*



Let's make it happen!

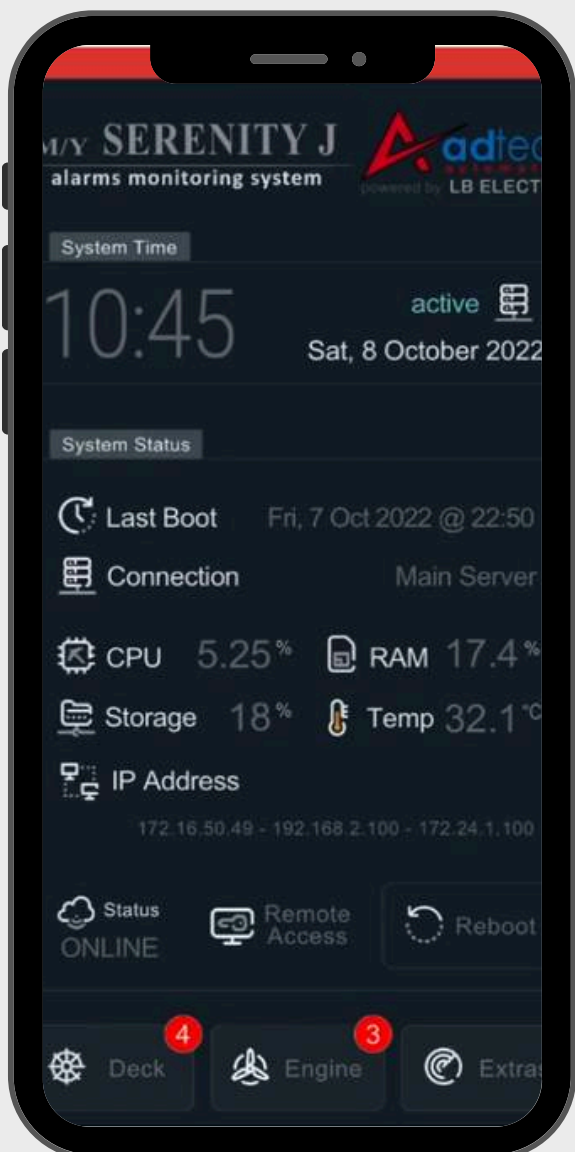
***7. Optional IMAVS SYSTEM- All alarms from the vessel alarm monitoring**

System can be transferred to the configured devices (smart phones / tablets) meeting all the security standards.

Alarms are triggered on the mobiles with time, date and text description.

-Alarms are triggered on the mobiles with time, date and text description.

-Groups can be configured for deck and engine alarms.



-Remote Monitoring and Control:

Enable remote access and control of ship systems, providing operators with real-time data and the ability to make informed decisions from anywhere in the world.

IMAVS – is an internet-based application for monitoring and reporting alarms from onboard the vessels.

IMAVS system user specifications

1. **Push notification with every new alarm** – Receive a push notification on your phone or tablet with every new alarm, ensuring you are immediately informed of any updates or changes, no matter where you are.

2. **Audible sound with every new alarm**– An audible sound will accompany every new alarm, both on your phone and on board, ensuring you are instantly alerted to any issues or updates, no matter your location.

3. **Visualization of all the active alarms** – A comprehensive visualization of all active alarms is provided, allowing you to easily monitor and manage each alert from a single, centralized interface.

4. **Alarms log for the last 30 days**– providing a detailed history of all alerts and notifications, which can be reviewed and analyzed to ensure thorough monitoring and prompt response to any issues.



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Need more details?

connect with us



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