



## Monitor MM422N: Revolutionizing Maritime Display Technology with QD OLED

In a rapidly advancing technological landscape, the systems onboard modern ships require cutting-edge solutions capable of addressing the challenges of navigation, control, and sensor integration. Enter the **MM422N monitor**, a generational leap in display technology tailored for maritime and naval applications, featuring the groundbreaking **QD OLED technology**.

### Key Features

#### 1. QD OLED Technology

- Combines the color accuracy and brightness of OLED with the sharpness and efficiency of Quantum Dot for unparalleled image quality.
- Offers exceptional contrast and anti-glare performance, perfect for environments with variable lighting, such as bridges and control rooms.

#### 2. Size and Resolution

- Boasts a **55-inch UHD screen**, providing ample space for detailed visualization of maps, data, and sensor systems.
- Delivers an immersive viewing experience, crucial for critical systems like **ECDIS**.

#### 3. Regulatory Compliance

- Meets **IEC 60945 standards**, ensuring durability and reliability in maritime environments.
- Certified for **ECDIS operations**, guaranteeing suitability for electronic navigation tasks.

#### 4. Robust Construction and Adaptability

- Engineered to perform under extreme conditions typical of maritime and naval settings.



- Fully compatible with the most advanced command, control, and sensor systems available on the market.

### Competitive Advantages

- **Unmatched Display Quality:** Perfect for critical applications where visual precision is vital.
- **Innovation at a Competitive Price:** Combines state-of-the-art technology with a cost-effective approach, making it accessible to shipbuilders and operators.
- **Support for Fleet Modernization:** Designed to align with technological upgrade initiatives for both existing vessels and new builds.

The **MM422N** represents the future of maritime displays, offering ship designers and builders the opportunity to equip their systems with technology that sets a new standard for onboard information presentation.

**The innovation your clients have been waiting for is now available!**



<b>Technical Specs</b>	
<b>Display Features:</b>	
Screen Size:	55 inches
Aspect Ratio:	16/9
Native Resolution:	3840 x 2160 (UHD)
Display Technology:	QD OLED
Refresh Rate:	Up to 144 Hz
Contrast Ratio:	Greater than 1,000,000:1
Brightness Range:	0.05 cd/sqm to 1,350 cd/sqm
Color Volume:	More than 1 billion colors
Color Accuracy:	Factory calibrated for accurate color reproduction, supporting ECDIS systems' different color schemas.
Glare-Free:	Impressive design to eliminate glare for optimal viewing.
Illuminated Control Panel:	Synchronizes brightness with the display for ease of use in different lighting conditions.
<b>Video Inputs:</b>	
HDMI and DVI:	Supports common video input standards for seamless integration.
<b>Power Supply:</b>	
AC Power:	220 – 240 V AC, 50/60 Hz, 235 W max. (130W standard).
DC Power Backup:	24V DC with automatic switchover.
<b>Connectivity:</b>	
HDMI/DVI:	3 x HDMI/DVI ports
USB	2 x USB ports
Ethernet	1 x Ethernet port
<b>Build and Installation:</b>	
Dimensions:	1,293 mm x 771 mm x 18 mm (with separated installation of the Processing and Interfaces Unit) 1,293 mm x 771 mm x 75 mm (with integrated Processing and Interfaces Unit)

<p>Weight:</p>	<p>23 kg (with separated installation of the Processing and Interfaces Unit) 32 kg (with integrated Processing and Interfaces Unit)</p>
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<p>Mounting Options:</p>	<p>The monitor can be installed on bulkheads, chart tables, or consoles.</p>
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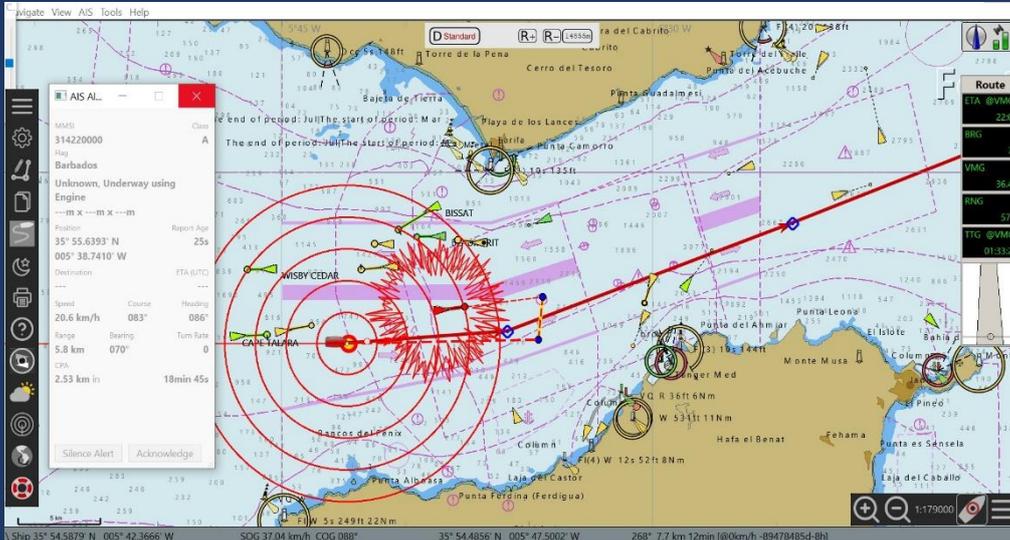
- a) The bulkhead installation can be made using special supports provided with the monitor.
- b) Installing the monitor as Charts Table. In this case an optional support with keyboard can be provided for easy and quick installation for new construction and for upgrade old Paper Charts Table.
- c) The monitor can be easily installed in console. Optionally a console chassis can be provided if necessary.



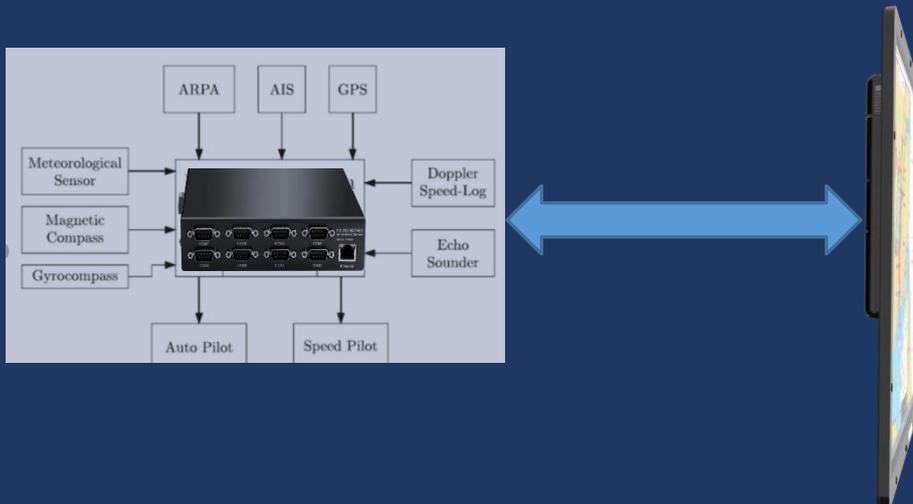


# Options

The MM422N monitor can be equipped with a powerful, thoroughly tested navigation application.



This application operates on the MM422N's internal processor, creating a comprehensive navigation system. It allows seamless connectivity with on-board navigation sensors, enabling efficient and reliable navigation.



The main features of this navigation application are:

## CHARTS

- Worldwide standard S57 and encrypted S63 vector chart support.
- Raster charts support.



## **AIS**

- AIS input with full target tracking and collision alerting.
- AIS support for SART with selectable MMSI for automatic MOB handling.
- AIS support for DSC and GPSGate buddies.

## **RADAR**

- Radar overlay.
- Simultaneous overlay of video from two radars.

## **WEATHER**

- GRIB and GRIB2 file input and display for weather forecasting.

## **ALARMS**

- Anchor watch/alarm functions.
- MOB Alarm with tracking.

## **ROUTES**

- Route planning with tidal support.
- Built-in great-circle routing.
- Integrated weather routing.

## **DISPLAY**

- Single and split-screen display.
- North-up Course-up Head-up & Chart-up modes.
- Moving-map display mode.
- Tide and Current prediction and display by location.
- IHO S52 compliant display of S57 and S63 vector charts.

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