INTERMARINE ELECTRONICS S.A.

NEW *NAVIGATOR G2 ECDIS*

SMART USER-FRIENDLY ECDIS WITH RADAR OVERLAY

COTROLLED AT YOUR FINGERTIPS TO GET THE JOB DONE

The new NAVIGATOR G2 ECDIS integrates the latest IMO standardization principles, ensuring quick access to critical information and enhancing situational awareness at all levels.

ALL-IN-ONE NEW ECDIS *Navigator G2*

The NAVIGATOR G2 ECDIS is powered by the proven G2 chart-handling software, trusted by navigation officers worldwide. Fully upgraded to meet the latest IMO standards and Wheel Mark approved, this system combines robust performance with regulatory compliance.

Featuring Equipped with the 11th-generation Intel i7 processor (4.7GHz) and 3D Iris® Xe Graphics GPU, it is designed to support future standards such as S-100. The system features a high-definition 1920x1200 multi-touch screen with anti-reflective tempered glass, ensuring both durability and precision. The NAVIGATOR G2 ECDIS offers exceptional performance, longevity, and affordability at a competitive price, positioning it is among of the most powerful solutions available today.

Efficient Chart Management and Serviceability

The NAVIGATOR G2 ECDIS is compatible with all major Electronic Navigational Charts (ENCs) and offers additional overlay functionalities, including Admiralty Information Overlay (AIO), NAVTEX, radar, AIS target data, weather information, and ARCS. Chart updates are streamlined through a one-click process, when paired with the NAVBOX, and other IEC6122-450 devices then updates are performed automatically, keeping the chart database, permits, AIO data, and digital publications current without crew intervention.

Supported Standards

IMO ECDIS Performance Standard, EU directive 2023/1667 IEC 61174 ed.4.0, IEC 62288 ed.3.0, IEC 61162-1 ed.5.0, IEC 61162-2 Ed.1.0, IEC 61162-450:2018, IEC 61162-450 Ed.2, IEC 62923-1:2018, IEC 629232:2018, IHO S-57 Ed.3.1, IHO S-52 Ed.6.1, IHO S-52 Pres Lib Ed.4.0.2, IHO S-63 Ed.3.1, IHO S-64 Ed.3.0, AML Portrayal specification version 3.0.0 Admiralty AIO v.3.
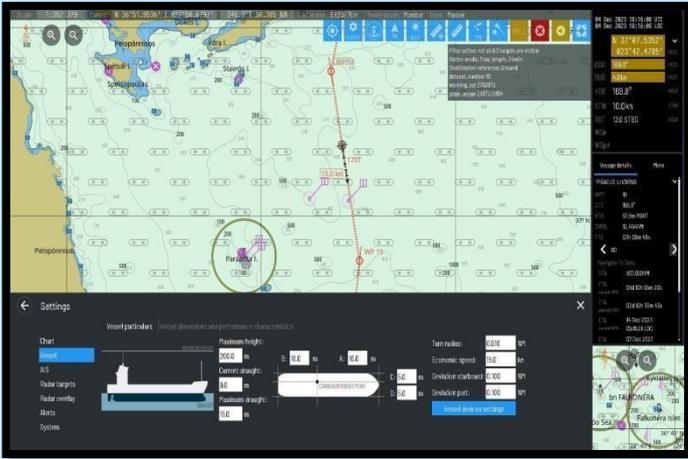
The G2 ECDIS series has been designed with the user in mind, offering intuitive controls and a simplified interface that enhance efficiency and reduce "head-down" time. By adhering to IMO standardization, this system improves situational awareness, giving users more time to focus on external conditions, assess situations, and ensure the vessel's safe navigation

Our **Navigator G2**-ECDIS range is built on the most recent technology and has a unique design to guarantee utmost dependability and the best MTBF. We provide a minimum 10-year service life for our ECDIS. Since our products are developed in-house, we have control over all the components.

Enhanced Situational Awareness

The NAVIGATOR G2 ECDIS delivers optimized performance through state-of-the-art hardware and software, ensuring that critical navigation data is always at your fingertips. Key features include a customizable quick-access toolbar for essential functions, adjustable look-ahead zones for anti-collision and anti-grounding, and real-time route monitoring. These tools provide navigators with a clear and validated picture of their current situation, empowering informed decision-making while reducing workload.
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Main Functionality

- Import S-57/S-63 ENC charts & updates
- NAVTOR SENC chart import -
- S-52 and INT1 chart presentation
- Chart database handling and display
- OpenGL GPU chart rendering
- Coordinate systems & geodetic calculation
- Route planning and monitoring
- Own ship - Anti-grounding
- Safety check
- User chart layer and mariner objects
- AIS & Radar targets, NAVTEX,
- Radar overlay
- Admiralty AIO,
- UKHO ADP,
- NAVTOR NAVBOX access
- IMO Standardized
- Weather chart layer, MARPOL, NavArea
- NMEA 0183/IEC 61162-1 parser
- Communication lines (TCP/IP, UDP, Serial)
- IEC 61162-450 Ed.2

OpenGL Graphics Rendering

The **Navigator G2 ECDIS** can handle up to 10.000 AIS targets by rendering them with openGL over thousands of GPU cores, which is 50-100 times faster than CPU rendering.

Training and Support

Our Our training programs are crafted to meet the highest industry standards, providing intuitive, user-friendly solutions that comply with IMO regulations for ECDIS type-specific familiarization. Our training options include:

- Classroom Training
- Computer-Based Training (CBT)
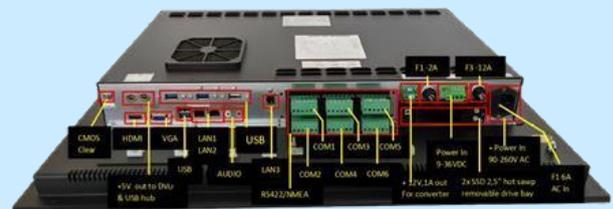- Onboard/On-Site Training

Simplified installation

The installation process is designed to be quick and efficient. With prepared sensor cables, the system can be fully installed and operational within 2-3 hours. Its plug-and-play architecture ensures a reliable and hassle-free setup

Service & Support Concept

We offer comprehensive global service through our Swap Maintenance Concept and unlimited e-service support, ensuring minimal downtime and swift technical assistance whenever needed.
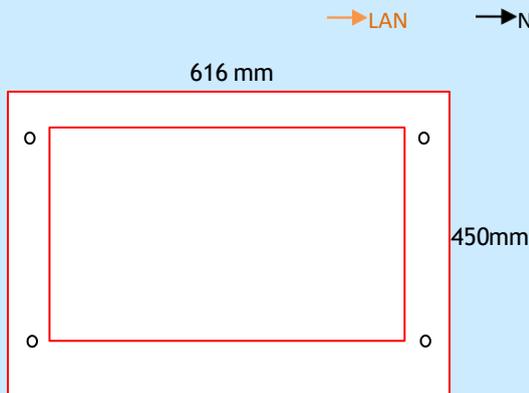

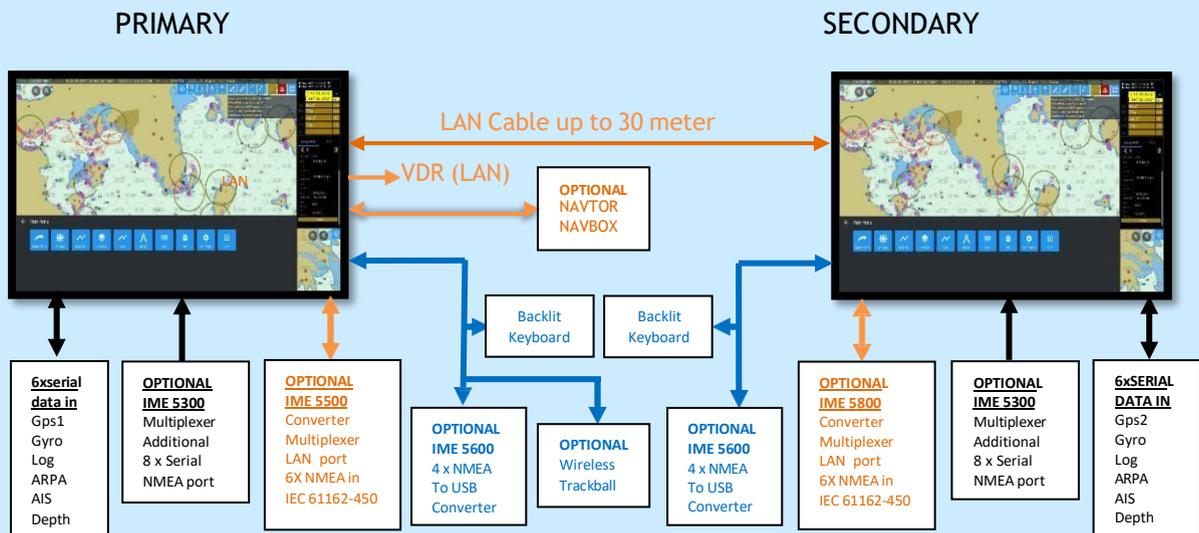To further enhance system flexibility, we offer four optional interface converters:

1. **IME-5300 Multiplexer:** 8 x NMEA ports for data management.
2. **IME-5500 Multiplexer/Converter:** 6 x NMEA to LAN conversion with IEC 61162–450 compliance.
3. **IME-5600 Converter:** 4 x NMEA to USB conversion for expanded functionality.
4. **IME-5700 Ethernet Switch:** Managed Ethernet switch with advanced protection against lightning.

Navigator G2 ECDIS specifications

- High definition 24" TFT screen 1920x1200 with Anti-reflective tempered glass
- Capacitive multi-touch screen 10 points activated with figure, glove & pen
- CPU Intel i7, 11th generation 4 cores 8 threads with turbo speed of 4,7Ghz with Intel IRIS graphic
- RAM 8GB DDR4 onboard - Expandable up to 64GB
- 6 x 232/RS422/NMEA with galvanic isolation fitted inside
- 1 x SATA SSD/HDD 2.5" max 3TB, fitted on a removable hot swap tray.
- 1 x M.2 support (PCIE) with high speed NVNE protocol or SATA
- 1 x Mini PCIE
- 1 x VGA output resolution 1920 x1200
- 1 x DP port with resolution 4096 /3840 x 2160
- 2 x 3.1 USB. Gen.2 port with maximum Tx 10 Gbps,
- 2 x USB 3.1 standard, 4 x 2.0 USB
- 3 x LAN Gigabit network Support Network wake-up and PXE
- 1 x audio line output port,
- 1x mic in port, 2 x stereo speakers fitted inside
- 1 x 5 VDC 25W power supply for external DVD & USB hub

- 1 x 12 VDC 1A Fused output to supply an additional external NMEA converter
- Input 90–265 VAC, 50-60 Hz 85W. Power supply of 350W is fitted inside
- Aluminum chassis
- 1 X IME Backlit keyboard & 1x mouse
- Dimensions 616mm (H)x 415mm(V)
- Weight 12,6Kg
- Working temperature -20 to 60c
- OS windows 10 Pro 64 bit
- One Key Recovery to restore ECDIS in case of crash
- *OPTIONAL*
- Input DC 9-36V
- External 6 x NMEA to LAN converter IEC 61162-450
- External 8 x NMEA multiplexer converter
- External 4 x NMEA to USB converter
- Wireless track ball
- Heavy duty pedestal providing 0-60 tilt
- Heavy duty aluminum console
- Sunshade protection aluminum cover

PRIMARY

SECONDARY

LAN Cable up to 30 meter

VDR (LAN)

OPTIONAL NAVTOR NAVBOX

LAN

Backlit Keyboard

Backlit Keyboard

6xserial data in
Gps1
Gyro
Log
ARPA
AIS
Depth

OPTIONAL IME 5300
Multiplexer Additional 8 x Serial NMEA port

OPTIONAL IME 5500
Converter Multiplexer LAN port 6X NMEA in IEC 61162-450

OPTIONAL IME 5600
4 x NMEA To USB Converter

OPTIONAL Wireless Trackball

OPTIONAL IME 5600
4 x NMEA To USB Converter

OPTIONAL IME 5800
Converter Multiplexer LAN port 6X NMEA in IEC 61162-450

OPTIONAL IME 5300
Multiplexer Additional 8 x Serial NMEA port

6xSERIAL DATA IN
Gps2
Gyro
Log
ARPA
AIS
Depth

→LAN   →NMEA-RS422   →USB

616 mm

450mm

Specification may changed without notice