

Product sheet

Raven ECDIS



Smart, simple and certified.

RAISING THE BAR
FOR MARITIME SOLUTIONS

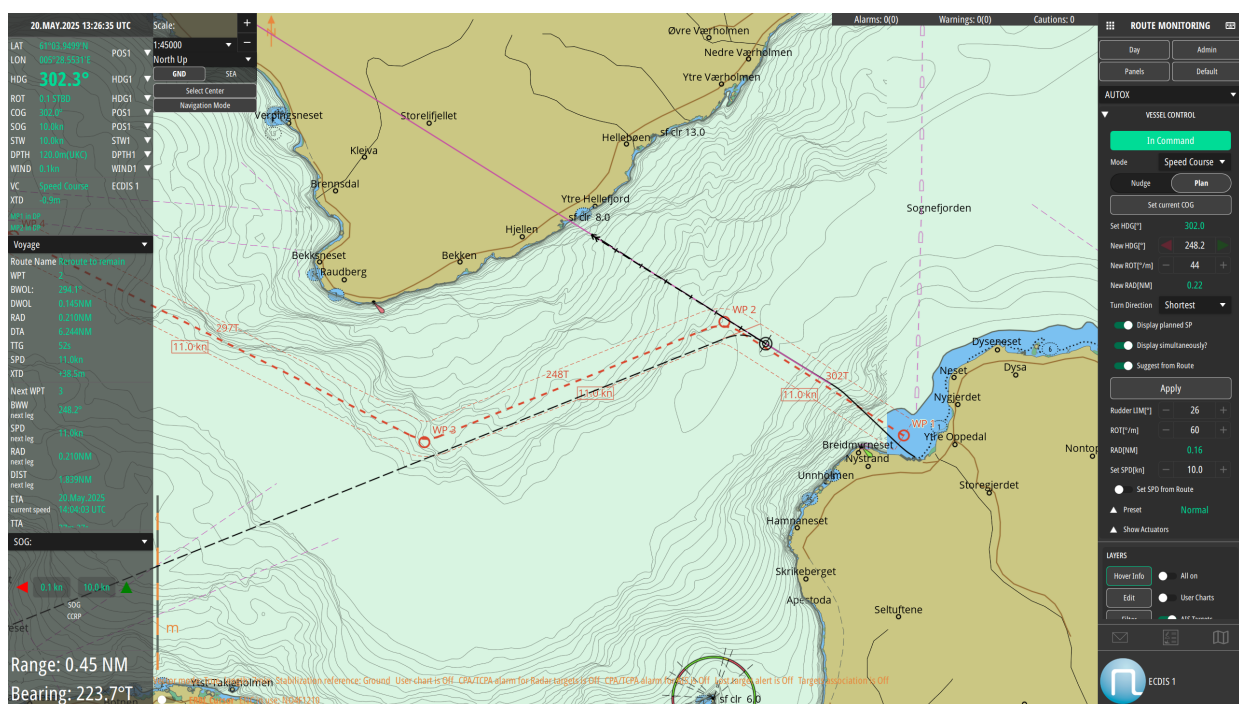
ESSENTIAL NAVIGATION, EVOLVED

Raven ECDIS is a compact ECDIS (Electronic Chart Display and Information System) designed for safe, efficient and compliant navigation – even on vessels with limited space.

Built on the proven Raven platform, it combines essential navigation features in a single unit with modern interface and streamlined installation.

Developed in accordance with Norwegian Maritime Authority Circulars RSV 14-2022 and RSV 16-2022, Raven ECDIS enables paperless navigation for vessels under 24 metres – but is equally suited for retrofits, bulk carriers and other vessels seeking a simplified and cost-effective navigation solution.

With support for integrated autopilot, TrackPilot, and Dynamic Positioning, along with effortless sensor fusion, Raven ECDIS delivers a future-proof navigation core — engineered for tomorrow's maritime operations.



KEY FEATURES

Electronic Chart Display

Voyage planning and execution using approved datasets. Dual installation enables paperless operation. Ensures compliance and situational awareness on board.

Heading Control System

Raven ECDIS offers integration with autopilot functionality — delivering an intelligent navigation platform designed to enhance operational efficiency and precision at sea.

Dynamic Positioning

Integrated DP functionality via Raven JPOS enables precision station keeping. Ideal for operations requiring vessel stability, such as aquaculture and survey work.

Conning Display (TBD)

A centralised view of critical navigation and system data. Improves situational awareness by presenting heading, speed, engine status and sensor info in one interface.

Online service and support

Flexible options for remote service, support, and commissioning ensure quick expert assistance and minimal downtime—keeping your operations running smoothly, wherever you are.

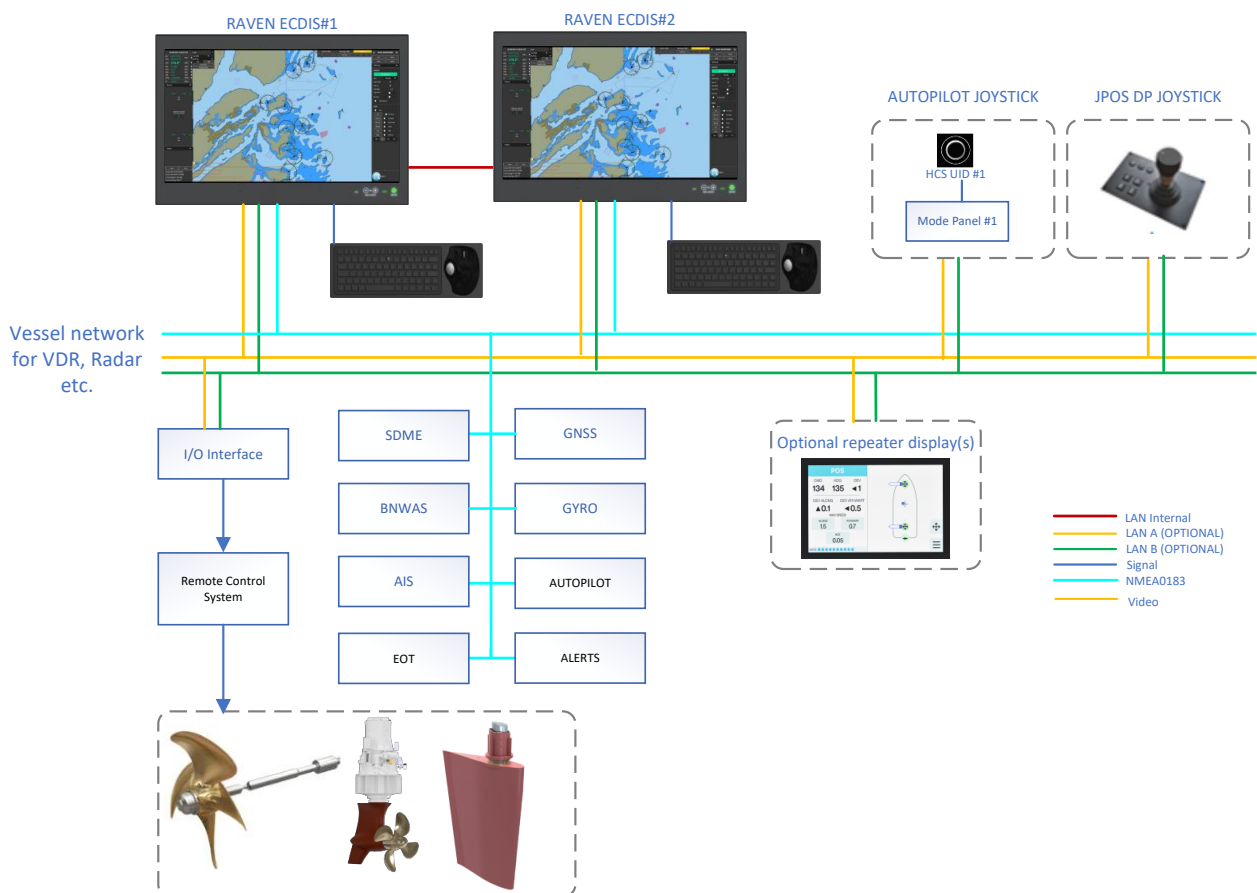
MED-B certified in accordance with international maritime standards

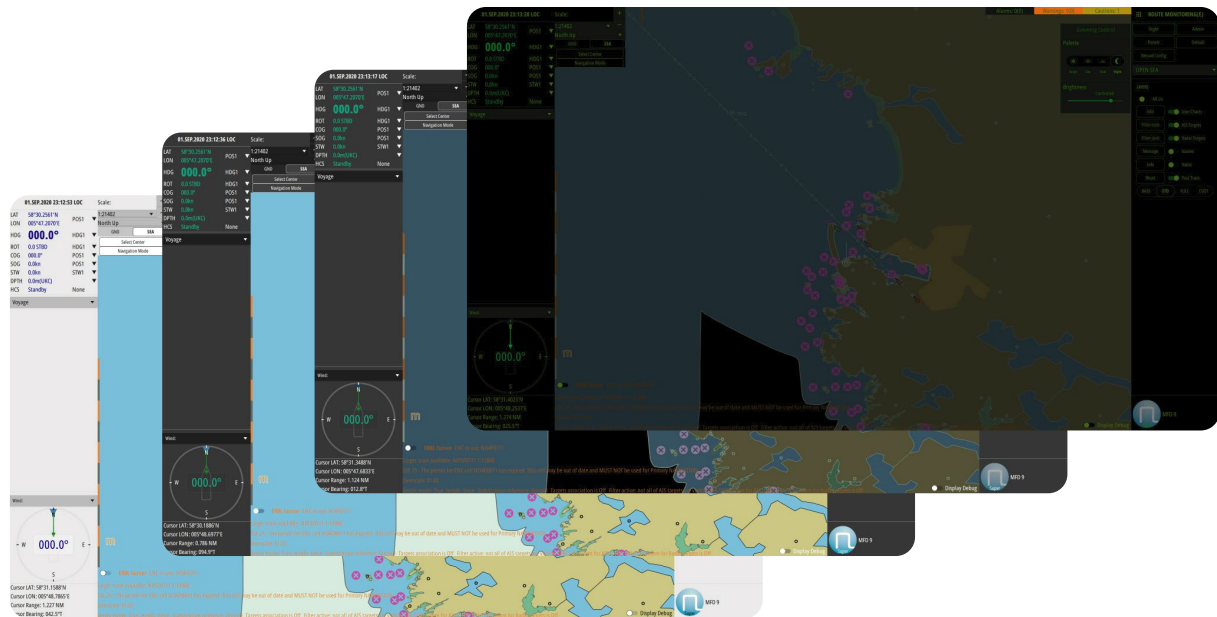
Raven ECDIS Meets international standards for marine electronics (IEC 61162, 60945, 62288 and more). Fully type-approved for use on IMO-classed vessels.

BENEFITS

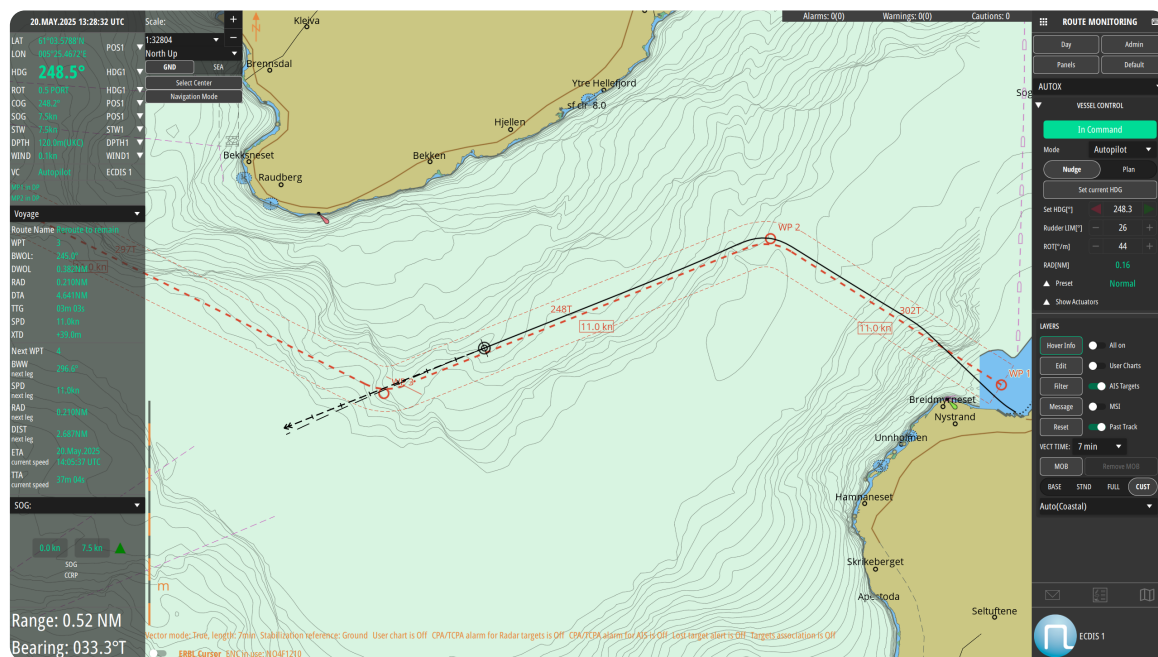
- User-friendly and clear interface
- Fast and logical route planning
- Seamless integration with autopilot and sensors (GNSS, AIS, HCS, Sonar etc.)
- Modern design and system architecture
- Trending and logging of data
- Scalable for future upgrades and functions
- Multiple core features in one unit
- Future-ready with support for autonomy
- Easy installation and low maintenance
- Reduced cabling and few hardware components
- Available display from 16" to 65" (16" applies only to vessels under 24 metres)

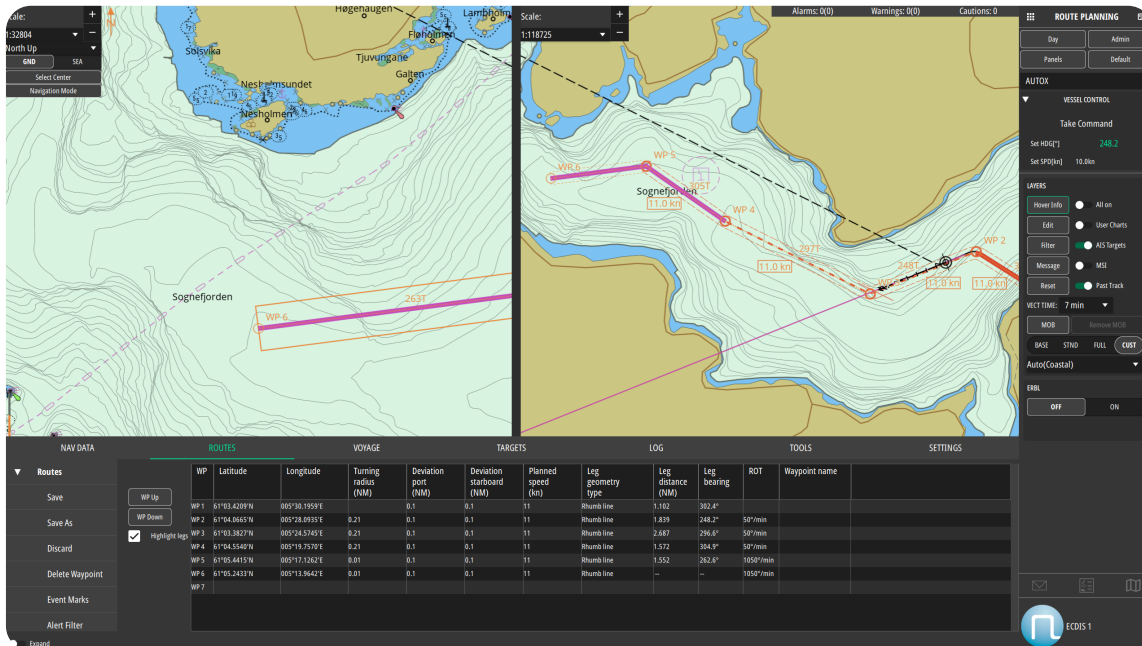
TOPOLOGY





The design and software focus on high degree of BRM (Bridge Resource Management) through effective Human Centric Design – both through user interface and layout. The representation and future-proof integration capability has been developed with input from partners in the OpenBridge consortium.





ROUTE PLANNING AND ROUTE MONITORING

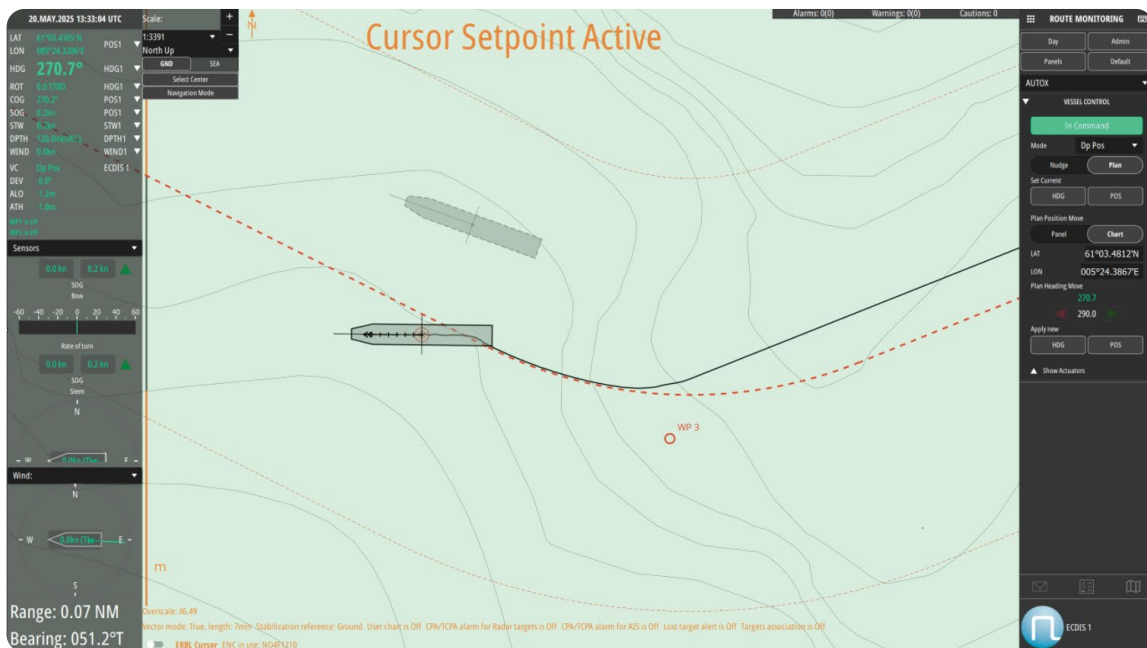
- Intuitive and easy to plan and modify routes
- Easy importing and exporting of chart and routes
- All official ENC's (PRIMAR, AVCS, etc.) in S-57/S-63/S-100 and NAVTOR SENC distribution format
- Simplifying chart updating by supporting Navtor Navbox a Cyber Secure approved gateway
- Route exchange using Navtor Navbox

CERTIFICATIONS AND COMPLIANCE

Pending DNV certification and full compliance with:

- ISO 11674 (Heading Control Systems)
- IEC 61162-1/2 + 450 (Data Interfaces)
- IEC 62288 (Display & Presentation of Navigation Information)
- IEC 60945 (Environmental & EMC Requirements)

Raven ECDIS is also developed in accordance with the Norwegian Maritime Authority Circular RSV 14-2022, RSV 16-2022, allowing for paperless navigation on vessels under 24 meters, even with smaller screens. This makes it ideal for modern, compact maritime operations.



RAVEN JPOS INTEGRATION WITH RAVEN ECDIS

With Raven JPOS built directly into the Raven ECDIS interface, users can control the vessel using either nudge or planned movement modes, creating a unified platform for both navigation and dynamic positioning. This tight integration streamlines operations and enhances situational awareness by keeping all key functions in one interface.

As with other components of Raven ECDIS — including ENC handling and Autopilot — the DP system features autotuning, allowing for fast and simple commissioning, with support for remote support when required.

HARDWARE OPTIONS

- Signal Interface
- Joystick control unit
- Dedicated JPOS display



KEY FEATURES OF RAVEN JPOS

- Position Keep
- Heading Keep
- Virtual Anchor
- ECO Mode
- DP Track
- Follow Target (e.g., ROV)
- Joystick Mode



Raven ECDIS®
Smart, simple and certified.