



ECPINS® W (SUB)



MILITARY

→ The Submarine WECDIS Solution

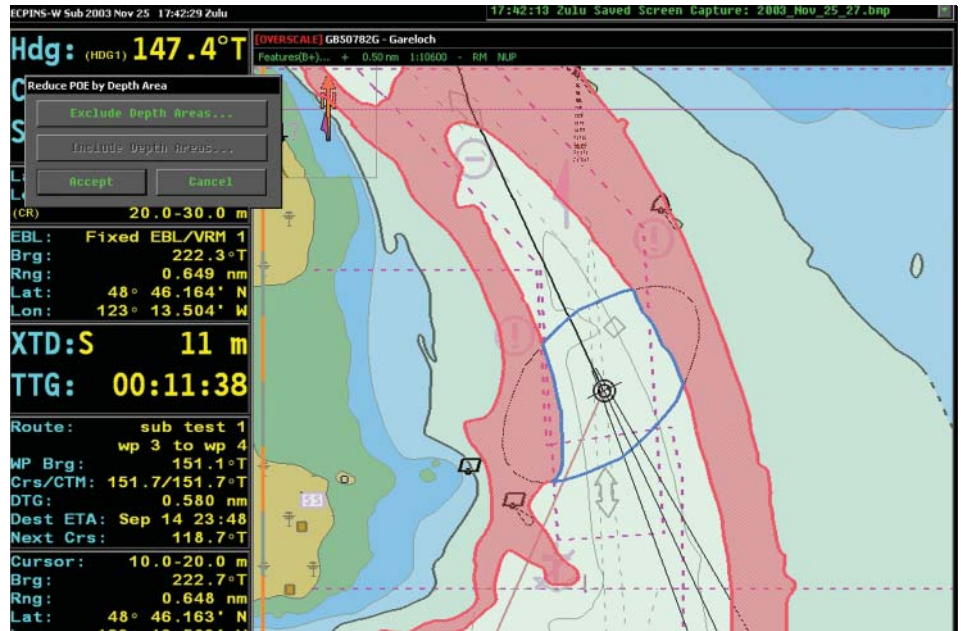
Offshore Systems, a pioneer of Electronic Chart Display and Information Systems (ECDIS), is a market leader in marine navigation. For over two decades, Offshore Systems has provided a history of safe navigation that has resulted in increased operational efficiencies for fleets worldwide.

Our **Electronic Chart Precise Integrated Navigation System (ECPINS®) W (Warship) SUB (Submarine)** is an International Maritime Organization (IMO) Approved Electronic Chart Display and Information System (ECDIS) that meets the NATO WECDIS STANAG 4564. It is designed for the harsh, time critical environment of military navigators. Each feature has been enhanced by customer comments and experience.

ECPINS W (SUB) was developed solely for use on military vessels and submarines to enhance situational awareness and improve navigational safety. It enables military navigators to navigate in the most challenging conditions (both dived and on the surface) and conduct mission-critical work with success.

Navies worldwide have made ECPINS W (SUB) their choice for warship ECDIS because of the advanced features and Offshore Systems' extensive experience in warship navigation. As a result, the ECPINS W (SUB) is the fleet standard for many NATO and allied navies including Canada, Australia, UK and Norway.

The ECPINS W (SUB) provides customers with a comprehensive list of navigation and safety features.



OWNSHIP AND CURRENT POE WITH 'EXCLUDED DEPTH AREA' DISPLAYED, READY FOR POE REDUCTION

KEY FEATURES & BENEFITS

Compliance

- IMO Approved ECDIS
- NATO WECDIS STANAG 4564

User Friendly

- Designed for military navigators
- Flexible licensing for fleet wide use
- Up to eleven screen configurations

Intuitive Chart Display

- All common chart and specialized chart formats ("multi fuel") supported
- Multiple charts on screen integrate into a single "mosaic" display with no borders or seams – creating an unspoiled, complete map
- Fast multiple chart loading and display add convenience and save time
- Multiple color selections for effective Control Room use

- Auto-contours generation uses Vector format chart data

Navigation at a Glance

- View key ship information quickly and conveniently on the screen display

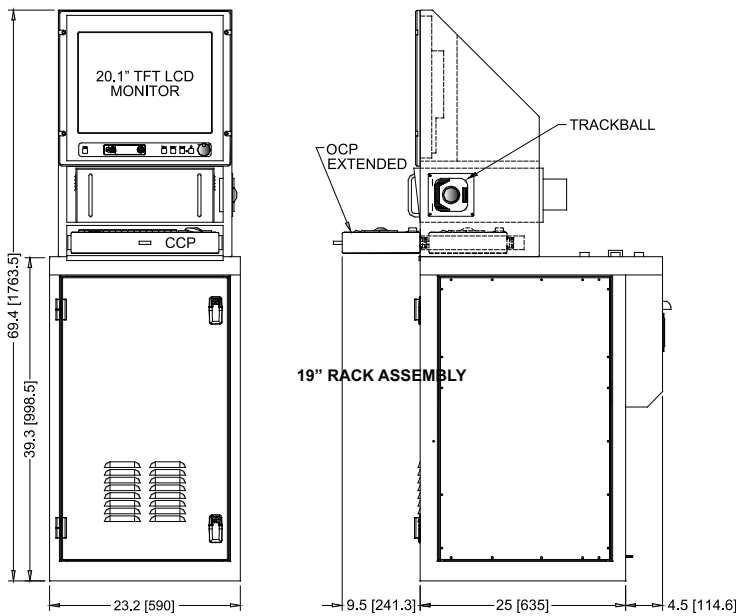
Enhanced Features

- Creation, display and use of Waterspace Management Areas and Moving Havens
- Complete functionality for surface and dived navigation
- Operational and Tactical features including, Target Motion Analysis, advanced operator contacts, advanced 'drawing tool kit'
- Automatic SUBNOTE plotting
- Raster chart fixing
- Multiple future POEs



ADVANCED NAVIGATION FEATURES

- Radar Image Overlay
- User defined privileges
- Supports Polar Navigation
- Creation of Moving Havens in accordance with Allied Tactical Publication (ATP) 18
- Record and review voyage data using the 24 hour 90 day voyage data log
- Sub-surface navigation including Pool of Errors (PoE) and bottom contour fixing, including Raster contour fixing
- Conduct mission planning by preparing routes, setting action points, scanning for known hazards and create electronic chart objects and AMLs, including importing of SUBNOTES
- Employ military navigation techniques such as bearing and radar lattices, bottom contour fixing, use of advance and transfer visual fixing by LOP, HSA, VSA, Radar Range, or Transits
- Automatic Identification System (AIS) display includes ECPINS® display both static and voyage AIS data, AIS targets display scaled dimensions, minimum keyboard display (MKD) for SAAB AIS Send/Receive or Receive only transponder and allows for complete AIS setup and control from ECPINS® console



ABOUT OFFSHORE SYSTEMS LTD.

Offshore Systems is a leading provider of marine electronics solutions. The company offers broad and versatile product lines including electronic chart systems for navigation and situational awareness, voyage data recorders and system components for bridge electronics.

Over the years, defence and commercial customers have relied on Offshore Systems for its extensive experience and expertise in bridge and sensor integration with real-time display of electronic charts.

WORLDWIDE SUPPORT & SERVICE AND INSTALLATION NETWORK

Offshore Systems is dedicated to providing customers with best in class customer support, service and installation. Our 24/7 support line provides customers with the peace of mind that an Offshore Systems technician stands ready to support their queries.

We have a qualified team of professionals to assist with service, installations, required annual surveys and re-certifications.

Our worldwide network of Offshore Systems personnel and leading partners are available to service customers from any location in the world.



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