



# ECPINS® D-MOP



MILITARY

## → Digital Maritime Operations Plot

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 and enhanced situational awareness that has resulted in increased operational capability for naval fleets worldwide.

**ECPINS® Digital Maritime Operations Plot (D-MOP)** is the market's first digital maritime operations plot with full navigation functionality replacing the electromechanical Ship's Navigation and Plotting System (SNAPS).

The SNAPS table provides basic navigation functionality by calculating and tracking the ship's position against a paper chart. It also provides a limited Local Operations Plot (LOP) function by performing target motion analysis on user input sonar and periscope information.

ECPINS® D-MOP combines modern electronics and information technology into one powerful navigation tool for improved situational awareness. The navigation function is performed by ECPINS®, an electronic chart system that has been certified as the primary navigation system for the Australian, UK, Canadian, Danish, New Zealand and Portuguese navies.

ECPINS® D-MOP is the result of the collaboration of Offshore Systems' Engineering team and customers to deliver navigation solutions that perform in challenging environments and restrictive space. ECPINS® D-MOP offers functionality and performance in one comprehensive system.



### KEY FEATURES & BENEFITS

#### User Friendly

- Designed from direct customer feedback

#### Intuitive Chart Display

- Supports all raster and vector chart formats (multi fuel)
- Multiple charts on screen integrate into a single "mosaic" display with no borders or seams – creating an unspoiled, complete map
- Convenience and time savings with fast multiple chart loading and display
- Multiple color selections for effective day and night use
- Easy to view with automatic chart de-cluttering based on display scale
- Large fully IMO compliant 37" widescreen display

#### Enhanced Features

- Bottom Contour Fixing
- Periscope Visual Fixing
- Pool of Errors (POE) generation, reduction and prediction
- Waterspace Management (WSM) plotting and display
- Submarine Depth Contour creation and display
- Advanced Operator Contacts for LOP or GOP construction and management

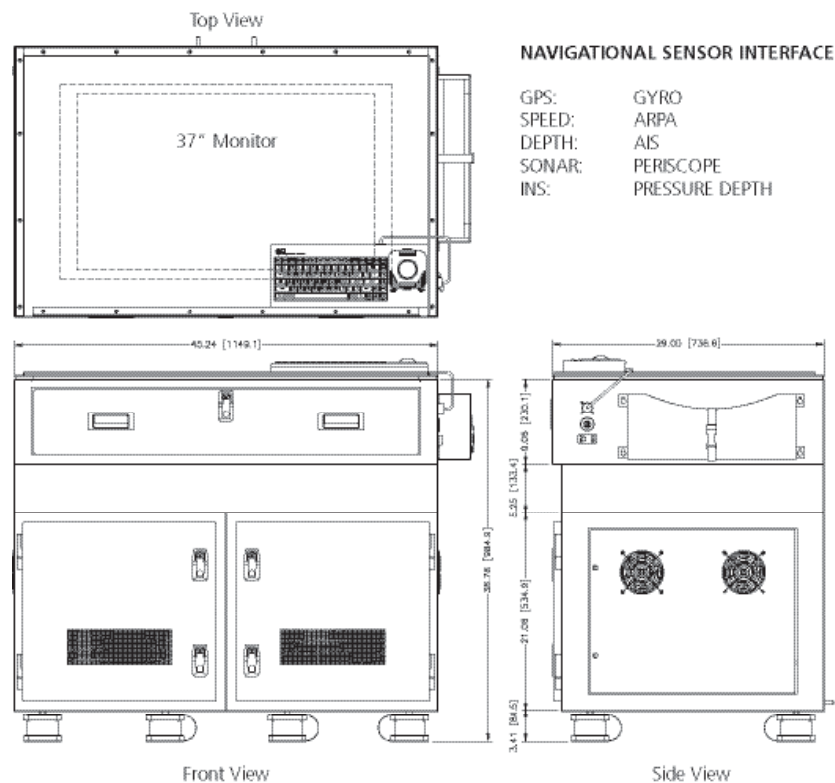


### ADVANCED NAVIGATION FEATURES

The ECPINS® D-MOP hardware is designed to be installed in the same space presently occupied by the SNAPS table. Its '3-piece' design allows for easy handling through restricted spaces, including submarine hatches. It can house hardware for a single WECDIS as part of an IMO compliant ECDIS solution.

ECPINS® D-MOP provides a LOP with the ability to conduct multiple Target Motion Analysis (TMA). The LOP can be expanded to become an extension of the Recognized Maritime Picture. Long range picture compilation and intelligence assessment can be accomplished from a single control station. Unlike SNAPS, the ECPINS® D-MOP is not limited by the 'paper chart in use'.

ECPINS® D-MOP has also been successfully interfaced with the Lockheed Martin Submarine Fire Control System (SFCS) and SFCS software. Within the system, SFCS and ECPINS® can share a horizontally mounted monitor and Operator Control Panel (OCP).



### 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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