



ECPINS® 4000



➔ More than an ECDIS

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.

Offshore Systems is dedicated to precise navigation and works directly with customers to deliver valuable navigation solutions. The industry leading **Electronic Chart Precise Integrated Navigation System (ECPINS®)** is an IMO Approved ECDIS that represents over twenty years of user feedback.

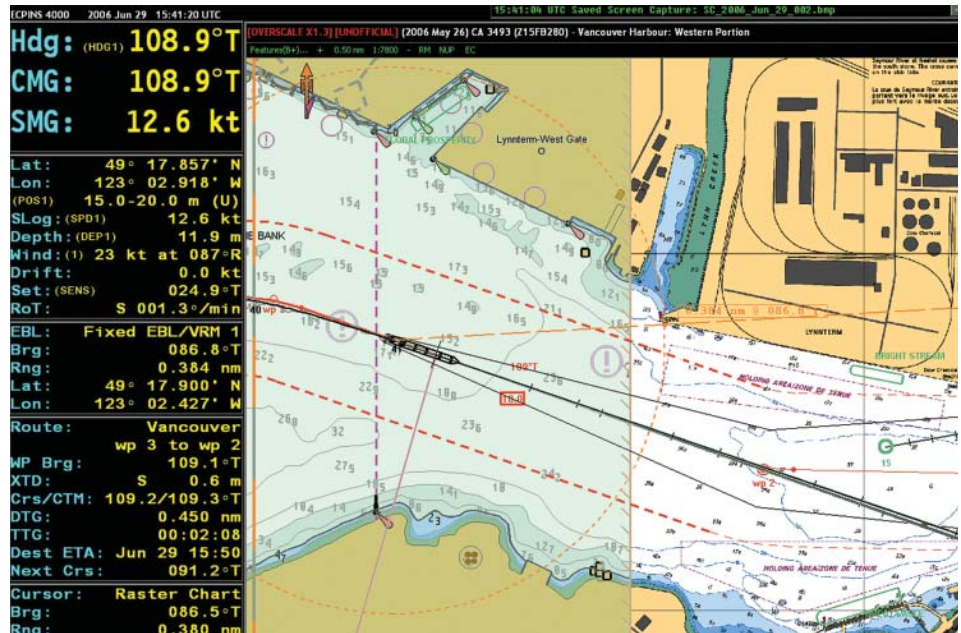
ECPINS® 4000 is often referred as the "standard" model of the ECPINS® product line. It is a computerized, shipboard navigational aid that displays electronic charts, the own ship's position in real-time along with sensor data. It is an ECDIS equipped with rich features that facilitates precise navigation.

It is available in a ruggedized modular or console system that can be easily integrated in to an existing Bridge.

ECPINS® 4000 exceeds the standards for safe navigation. It is **more than an ECDIS**.

"Offshore Systems technology on our ships has evolved from something that was nice to have, to equipment that is a must to have."

Kirk Jones
Director, Marketing and Transportation Services
Canada Steamship Lines Inc.



"MULTI-FUEL" DISPLAY SCREEN

KEY FEATURES & BENEFITS

Return on Investment

- ECDIS systems have proven that navigational errors resulting in accidents/incidents are greatly reduced and could reduce the risk of accidents/incidents by 36% with a cost benefit of \$175,000 to \$396,000. (Source: 2006 DNV Formal Safety Assessment report)
- ECDIS systems have reduced business interruptions due to weather or other factors that could impede the progress of a voyage
- Advanced voyage planning features could reduce fuel costs up to 2%
- The playback of ECDIS data creates a powerful training, simulation and analytical tool

Compliance

- IMO Approved ECDIS

Intuitive Chart Display

- Supports all vector and raster chart formats ("multi fuel")
- Multiple charts on screen integrate into a single "mosaic" display with no borders or

seams – creating an unspoiled, complete chart

- Multiple color selections for effective day and night use
- Easy to view with automatic chart de-cluttering based on display scale

Enhanced Features

- Audio and visual alarms to alert users on potential groundings, collisions, cross track distance range being exceeded and/or the loss of sensor data
- Advanced Voyage and Route Planning
- Powerful playback functionality
- AIS and ARPA Image Overlay Capability

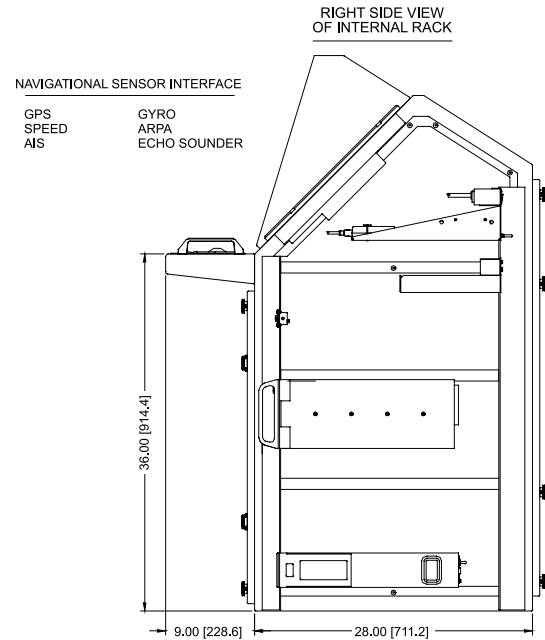
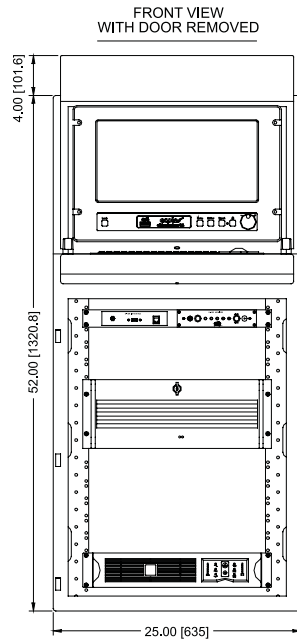
Precise Situational Awareness

- View key ship information quickly and conveniently on the screen display
- Allows quick reference check from the screen, allowing the user to remain focused on vessel safety and other bridge activities



EXCEEDS THE STANDARD FOR ECDIS

- Fully customized display
- 3D Safety Zone and 'Ghost Ship'
- Automatic position and heading source selection
- Navigation activities include multiple EBLVRM functionality, visual navigation tools, ship maneuvering and docking tools, rapid route production and hazard scanning feature
- Bridge Monitoring capabilities include data layout, ambient condition adjustment, display customization, 3D safety zone, data query, electronic deck log and AIS and ARPA Display
- Navigation planning includes planned intended movement, review and sign off, layout route, plan turns, scan for hazards and add visual support
- AIS includes ECPINS® display of both static and voyage AIS data, AIS targets display scaled dimensions, minimum keyboard display (MKD) allows for complete AIS setup and control from ECPINS® console
- Multi sensor integration and data from NMEA 018 compatible DGPS, gyro, speedlog, depth sounder, ARPA, anemometer and AIS sensors. Integrates with GPS differential beacon frequency control. Extended NMEA GPS data support (satellite data, statistics, etc.)



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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