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Obtain critical navigation information on a state-of-the-art ECDIS for safe and efficient travels

The FEA-2107 and FEA-2807 are FURUNO's new ECDIS (Electronic Chart Display and Information System), which have been designed to fully comply with the latest standards and resolutions set by IMO, IHO and IEC. The electronic chart is compatible with ENC (S57 Edition 3) charts, C-Map CM93 ed3, C-MAP CM-ENC and ARCS charts (RASTER CHARTS). Where the ENC chart is not available, the ARCS chart is used instead. Instant conversion is assured, as both chart databases are stored on the ECDIS memory.

State-of-the-art technology has been utilized for high-speed stress-free data processing of chart and navigational data, which are overlaid on the chart. The navigational data includes: AIS and ARPA targets as well as a variety of other navigation information such as position, course, and speed. In the presentation of chart data, faster chart drawing and swift switching for presentation on/off of navigational data can be performed. When planning the voyage route, this gives quick route profile calculation and voyage optimization and continuous monitoring of huge navigational data, user actions and performance of the system.

The FEA-2107/2807 can be interfaced with up to four sets of radar/ARPA FAR-21x7/28x7 by using of 100 Base-T Ethernet network. This allows high-speed data transfer and data sharing for navigational data within the network, which simplifies the system integration and the expandability of the system. The shared data can be accepted in both serial and analog format.

For the display units, the FEA-2107 uses a 20.1" SXGA LCD and the FEA-2807 uses a 23.1" UXGA LCD. These high-resolution units provide clear and sharp pictures for comfortable observation. The presentation colors can be selectable from five patterns according to the ambient conditions of the bridge area for optimal viewing around the clock. The ergonomically designed control panel consisting of a keyboard, the trackball, thumbwheel and mouse buttons facilitates intuitive and comfortable operation. FEA-2807: 23.1" LCD

FEA-2107: 20.1" LCD



With optional mounting bracket and connection stand



With optional pedestal



FEATURES 0 C D I S

- The electronic chart can be overlaid with a variety of navigation data such as Radar echo images, ship's position, heading, speed and others to facilitate safe and efficient navigation.
- Compatible with ENC (S-57 Edition 3) charts, ARCS charts, C-MAP CM93 ed3 and C-MAP CM-ENC
- Complies with the following IMO and IEC regulations:
- IMO MSC.232(82)
- IMO A.694(17) • IEC 61174 edition 3
 - IEC 60945 edition 4
- IEC 61162-1 edition 2
- IEC 61162-2 edition 1



Flexible expandability allows the ECDIS to be networked with radar/ARPA, positioning equipment, autopilot and others to consolidate the navigation system

Displays 200 AIS targets

When connected to an optional AIS transponder, the FEA-2107/2807 can store up to 1,000 AIS targets information in its storage buffer, and displays up to 200 AIS targets within the userdefined range on the display. This provides operators with another solution for observation of other craft.



Streamlined design

The color scheme of the optional pedestal is a stylish pearl white and gray. The streamline design fits perfectly in the modern bridge.



- User-customizable chart drawing function
- Route planning applicable to both Mercator's sailing and great-circle sailing
- Track Control System when connected with autopilot (Option)

Navigation data is shared within an Ethernet network

The 100 Base-T Ethernet is utilized to link this ECDIS with up to four sets of radar/ARPA FAR-21x7/28x7. This link gives high-speed navigational data sharing within the system and allows operators to choose either a single station system or a total Integrated Navigation System (INS).

High-resolution color LCD

The use of 20.1"/23.1" high-resolution SXGA/UXGA LCDs provide crystal clear presentations of navigation information, such as marks, lines and waypoints. The LCDs also allows for installation where space is limited.

Ergonomically designed control panel provides ease-of-use

The ergonomically designed control panel consists of a trackball, a thumbwheel and a keyboard. The logically arranged keyboard provides intuitive operation. Optionally, the compact control head only with a trackball and a thumbwheel is available for space-saving installation.





Palm control unit

Navigation data for the past 12 hours can be recorded

(The data to be recorded includes: time, ship's position, GPS correction data, ship's heading, ship's speed)

True Motion and Relative Motion modes are available





xible Ethernet network for future expandability

PRESENTATIONS

Navigate safely and efficiently with the ECDIS route planning and monitoring



Radar overlay

Radar echo image overlay is optionally available in the FEA-2107/2807. This function gives the exact match in scale and presentation of the chart and radar echo image. This greatly helps the operator's observation and enhances operators' decision-making process.



Radar overlay dialog box Operators can have controls for adjustment of the radar image - gain, sea clutter, rain clutter, echo trail, interference rejector, echo stretch and noise rejector.

Conning display



A variety of navigation information, which is input from up to sixteen onboard sensors, can be graphically displayed on thee screen. Up to eight sensors provide the analog data, and the other eight provide the serial data. The information is displayed in six predefined place where the operators can arrange the layout.

Typically, information on the conning display is received from the following sensors:

| Position sensors | Rate of turn gyro | Rudder |
|------------------|-------------------|------------|
| Wind sensor | Log/Dual-axis log | Propellers |
| Gyro | Echo sounder | Thrusters |







237.5

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PA AUTO act.

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Set Chart Info Activate Center Scroll

Data display

When the cursor is placed upon any mark on the electronic chart, related information about the object such as a buoy, lighthouse, sunken vessel, etc., will be shown in the data cell. Additionally, other navigational information including both own ship's navigational as well as other ship's information from ARPA can also be presented.



Route planning

The operators can plan and determine the precise route with ease, while studying the chart data on the screen. A route can be altered in minute detail, and the changed route can be saved for later use.



Antigrounding

This function informs the operator beforehand of shallow coastal water and other sea conditions that could contribute to the ship going aground.

The information about the sea areas is acquired from the electronic chart and ship's draft data is preset in own ship's information so that possible strand can be avoided.