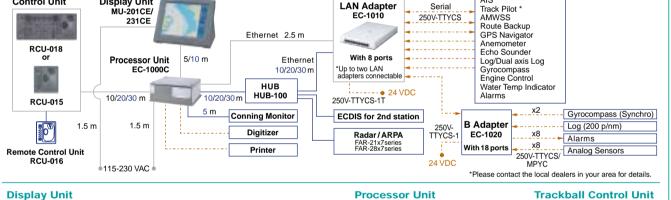
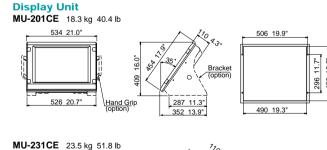
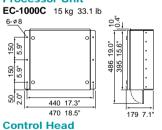
SPECIFICATIONS

tandards				
	IMO Resolution A.817(19), IEC 61174 ed2	Power Supply		
isplay Unit	FEA-2107: MU-201CE, 20.1" color LCD, SXGA (1280 x 1024 pixels)	Display Unit:	115 - 230 VAC, 1 ø, 50/60 Hz	
	FEA-2807: MU-231CE, 23.1" color LCD, UXGA (1600 x 1200 pixels)	Processor Unit:	115 - 230 VAC, 1 ø, 50/60 Hz	
Operating System	Windows XP	LAN Adapter:	24 VDC	
Iseable Charts	IHO/S-57 v.3 vector chart, ARCS raster chart, C-MAP CM93 ed3*	B Adapter:	24 VDC	
	*available in the near future	•		
resentation Modes	True/Relative Motion Noth-up, True/Relative Motion Course-up	Environment (IEC 60945 test method) Temperature		
	Relative Motion Head-up, Relative Motion Route-up			
isplay of data		All Units:	-15°C to +55°C	
Own ship :	Position, SOG, COG, Heading			
Route :	Planned route, Monitoring route	Equipment List		
ARPA targets :	Range, Bearing, Speed, Course, CPA and TCPA	Standard		
Others :	EBL, VRM, Parallel index line, Cursor position, Navigation	 Display Unit FEA-2 	1. Display Unit FEA-2107: MU201CE, FEA-2807: MU-231CE 1 ur	
	and pilot data notebook	Control Head RCL	l-018 or	
Route/Waypoint	Route: more than 100 routes	Trackball Control U	nit RCU-015 (Specify when ordering)	1 unit
	Waypoints: 200 waypoints / route	Processor Unit EC	-1000C	1 unit
Voyage Calculation	The following data can be calculated	LAN Adapter EC-1	010	1 unit
	Range/Bearing to destination, TTG, ETA, Fuel consumption	Power Supply Cab	le for Processor Unit, 1.5 m	1 pc
Route Navigation Monitoring Off track, Waypoint, Arrival, Grounding, Depth		Power Supply Cab	le for Display Unit, 1.5 m	1 pc
larms	Off track, Channel limit, Waypoint approach, Depth	7. DVI Cable between	Display Unit and Processor Unit, 5 m	1 pc
Other Functions	Nighttime/daytime display, ARPA target display, Radar overlay,	Cable between Cor	ntrol Unit and Processor Unit, 10 m	1 pc
	User chart function, Position optimization, MOB, Log book,	9. Armored LAN Cab	le, 2.5 m	1 pc
	Pilot data function, Track control system (TCS)*	10. Standard Spare Pa	10. Standard Spare Parts and Installation Materials 1 set	
	* Please contact the local dealers in your area for details.	Option		
nterface		 LAN Adapter EC-1 	010	
Input/output		B Adapter EC-1020 for equipment with analog interface		
AIS :	IEC 61162-2 (ABM, BBM)	Remote Control Unit RCU-016		
Radar signal :	Ethernet 100 Base-TX or RAW Video	4. Cable between Control Unit and		
Input		Remote Control Unit 03S9610, 1.5/10/20/30 m		
Gyrocompass :	IEC 61162-1 (HDT) or Synchro	5. Hub HUB-100		
SDME (Speed log) :	IEC 61162-1 (VBW) or Pulse type		Radar Overlay Kit for FAR-21x7 series and FAR-28x7 series	
EPFS :	IEC 61162-1 (GLL, GGA, VTG, ZDA, DTM)	Video Card for Cor		
Echo Sounder :	IEC 61162-1 (DBT, DPT)		Cable between Control Unit and Processor Unit, 20/30 m	
Anemometer :	IEC 61162-1 (MWV)		DVI cable between Display Unit and Processor Unit, 10 m	
	IEC 61162-1 (MTW)		10. Armored LAN Cable OP03-186-10/20/30	
Water temp Indicator :	120 01102 1 ()			
Water temp Indicator : Current Indicator :	IEC 61162-1 (VDR)	11. Hand Grip		
		11. Hand Grip 12. Bracket		
Current Indicator :				









0

4ø4

RCU-018 3.7 kg 8.2 lb

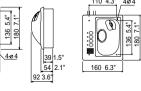
308 12.1"

398 15.7"



RCU-015 2.4 kg 5.3 lb

RCU-016 2.4 kg 5.3 lb 110 4.3"



TRADE MARK REGISTERED MARCA REGISTRADA SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

04075U Printed in Japan

89 3.5



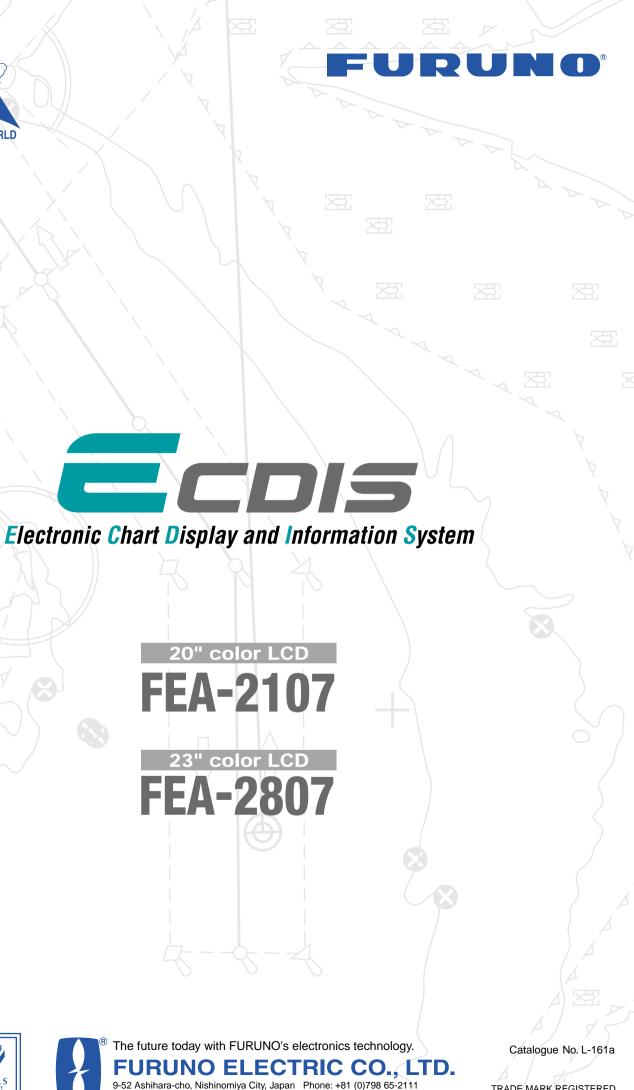
20" color LCD **FEA-2107** 23" color LCD FEA-2807



Fax: +81 (0)798 65-4200, 66-4622 URL: www.furuno.co.jp

FURUNO U.S.A., INC. Camas, Washington, U.S.A. Phone: +1 360-834-9300 Telefax: +1 360-834-9400 FURUNO (UK) LIMITED Denmead, Hampshire, U.K. Phone: +44 2392-230303 Telefax: +44 2392-230101 FURUNO FRANCE S.A. Bordeaux-Mérignac, France Phone: +33 5 56 13 48 00 Telefax: +33 5 56 13 48 01 FURUNO ESPANA S.A. Madrid, Spain Phone: +34 91-725-90-88 Telefax: +34 91-725-98-97

FURUNO DANMARK AS Hvidovre, Denmark Phone: +45 36 77 45 00 Telefax: +45 36 77 45 01 FURUNO NORGE A/S Ålesund, Norway Phone: +47 70 102950 Telefax: +47 70 127021 FURUNO SVERIGE AB Västra Frölunda, Sweden Phone: +46 31-7098940 Telefax: +46 31-497093 FURUNO FINLAND OY Espoo, Finland Phone: +358 9 4355 670 Telefax: +358 9 4355 6710



TRADE MARK REGISTERED MARCA REGISTRADA 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, ARCS charts and C-Map CM93 ed3* (RASTER CHARTS). Where the ENC chart is not available, the ARCS chart may be used. 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. The chart can be overlaid with the data from AIS, radar/ARPA as well as a variety of other navigation information such as position, course, and speed. The FEA-2107/2807 can be networked with radar/ARPA, autopilot and a variety of other equipment through the use of Ethernet. This allows high-speed and stable data transfer over a 100 Base-T network. Navigation data can also be shared by each component within the network. This simplifies the system integration and the expandability of the system.

For the display units, the FEA-2107 uses a 20" SXGA LCD and the FEA-2807 uses a 23" UXGA LCD. These high-resolution units provide clear and sharp pictures for easy and comfortable observation. The brightness of the screen can be adjusted according to ambient conditions of the bridge area for optimal viewing around the clock. The ergonomically designed control panel facilitates intuitive and comfortable operation.

FEA-2807: 23" LCD

FEA-2107: 20" LCD



With optional mounting bracket and connection stand

*available in the near future



With optional pedestal



FEATURES of ECDIS

- The electronic chart can be overlaid with a variety of navigation data such as Radar targets, ship's position, heading, speed and others to facilitate safe and efficient navigation.
- Compatible with ENC (S57 Edition 3) charts, ARCS charts and C-MAP CM93 ed3* *available in the near future
- Complies with the following IMO and IEC regulations:
- IMO A.817(19)
- IMO MSC.64(67) Annex 5 • IMO A.694(17)
- IEC 61174 edition 2 • IEC 61162-1 edition 2

• IMO MSC.86(70) Annex 4

- IEC 60945 edition 4
- IEC 61162-2 edition 1



ENC IHO S57 Edition 3

- Flexible expandability allows the ECDIS to be networked with radar/ARPA, positioning equipment, autopilot and others to consolidate the navigation system
- High-resolution color LCD The use of 20"/23" 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.

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.

Optional pedestal

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 spacesaving installation.

- 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 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
- Navigation data is transmitted through an Ethernet network

The 100 Base-T Ethernet connection is utilized to link the system with navigation equipment such as a Radar. Installation and maintenance is kept simple by the use of the Ethernet connection, while supporting data transfer that is speedy and stable. The data can be shared with other equipment on the network. The flexibility of the network allows you to have a single system or build a total Integrated Navigation System (INS).





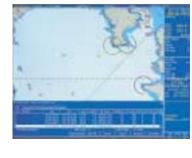


exible Ethernet network for future expandability

Navigate safely and efficiently with the ECDIS route planning and monitoring



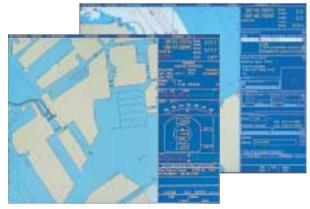


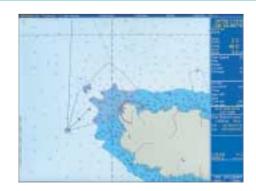












Route planning

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.

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.

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. Additionally, various alarms are generated to inform the operator of approaching waypoints*, cross track error and cource error. *when connected with autopilot