

SPECIFICATIONS: COASTAL-E 2224

COASTAL-E 2224 is the ultimate ECDIS¹ for workboats and other smaller crafts.

It is based on the IMO-approved TECDIS software and built with an IEC 60945-approved panel PC, measuring 22 inches diagonally.



- Approved Chart system(mini ECDIS) for Workboats , Leisure Crafts, Rescue Vessels & Combat Crafts
- Go paperless with Coastal E
 - Monthly Chart update of the official ENC's
- Accepted by the Norwegian Maritime Authority - Sjøfartsdirektoratet
 - Rundskriv no: (pending)
- Vessels from 8 to 24 meters
- Online web shop for Charts: www.Telko.no/charts

HARDWARE SPECIFICATIONS

Operating system	Windows 10 64-bit, English
Screen	21.5 inch Full HD, LED VA panel
Processor	Intel Atom x7- E3950 1.6 GHz processor
Chipset	Intel Apollo Lake
Memory (RAM)	4 GB
Storage	240 GB M.2 SSD (approx. 210GB free) 32 GB eMMC

SOFTWARE SPECIFICATIONS

Software version	TECDIS 4.8.3.x
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Usable Charts	S-57 ed.3 S-63 (including Primar and AVCS) CM-93/3 (ENC / ENC+ / CAES / CEES / Professional+ ²)
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Display of data

Own Ship:	GPS Position, COG, HDG, SOG, STW
Route:	Active route name, DTG, ETA, and CTS-, DTG-, TTG to selected WP
Targets:	BRG, DIST, COG, SOG, POS User selectable: ARPA Target/target track color, «Save» ARPA target track.
Others:	EBL, VRM, EBL list, PI lines, Cursor position, True/relative cursor bearing

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¹ COASTAL-E 1624 is subject to national approvals, for national waters.

² C-Map Professional+ is not an official chart service, it does however provide world scale charts

Functions

Framegrabber	View input from other onboard systems such as radars, CCTV, fish finding systems and more. Viewed either in full screen or as picture in picture (PiP). This functionality requires the Framegrabber version of Coastal-E 2224.
Maritime Calculation	Can calculate Range/Bearing to or from a position, with Rhumb-line or Great Circle routes, distances selectable in meters or NM. TTG, ETA, datum conversion
Route monitoring	Off track, Waypoint, Arrival, Grounding, Depth
1-click chart loading	Available for charts from the following providers: Navtor, ChartCo, Nautisk Forlag
Alarms	Off track, Index Lane, Channel limit, Waypoint approach, Depth, Non ENC dangers, Restricted Areas, Cautions Areas, Possible danger, Harbour Mode
Autopilot output	Output of: APB, RMB, RMC, RTE
AIO overlay	Show Temporary and Preliminary Notices as an overlay on the chart, with the Admiralty Information Overlay (AIO) service by UKHO.
Other Functions	<ul style="list-style-type: none"> • Night/Day presentation • MOB • SAR • Log w/replay functionality • Docking Conning display • Tooltip • User defined chart presentation • Easy transfer of installed configuration to replacement unit • Easy screen dump facility when in navigation mode.

TELCARE

TELCARE gives power to the Coastal-E users.

TELCARE is a subscription service for new features in TECDIS and Coastal-E. The following features are only available with a valid TELCARE subscription:

TotalTide	Show Tides from Admiralty TotalTide in the chart. Requires a TotalTide subscription from UKHO.
Rendevous	With Rendevous TECDIS will predict where on your route you will meet that target. This function works for targets within 1 NM of your route, and predicts where the target will meet your vessel (assuming the target will move along the same path your route shows).. Rendevous supports up to 8 targets simultaneously, and the prediction is updated every second.
Transit conning	The most important sensor and voyage information is displayed with bigger text, in a clear and very readable conning window. The conning window can be moved around on the screen.
Edit route lane	Edit the route corridor and turn radius visually in the chart with the cursor.
1-click chart loading	Available for Global Navigation Solutions – GNS

Optional features

The following options are available for purchase with a perpetual license (onetime fee):

Radar Overlay	Display of radar echoes from Furuno radars: 2xx7, 2xx8, 15xx
Navtex	Connects to all Navtex receivers sending in the NRX format. You can display Navtex messages with position references.
Weather overlay	Advanced weather overlay feature using top quality commercial maritime weather forecast data available as a subscription service from C-Map.

Port description

Sensor	Sentences	IP	IEC 61162-1 Ed 4.0	Proprietary
Position 1:	GNS, GGA, GLL, RMC		✓	
Position 2:	GNS, GGA, GLL, RMC, VDO	✓	✓	
COG/SOG1:	VTG, RMC, OSD, VDO		✓	
COG/SOG1:	VTG, RMC, OSD, VDO	✓	✓	
Heading 1:	HDT, OSD, VHW, VDO, THS		✓	
Heading 2:	HDT, OSD, VHW, VDO, THS	✓	✓	
Water speed:	VHW, OSD, VBW	✓	✓	
Radar ARPA 1:	TTM	✓	✓	
Radar ARPA 2:	TTM	✓	✓	
Radar cursor 1:	RSD	✓	✓	
Radar cursor 2:	RSD	✓	✓	
AIS (In- and output):	Aixxx	✓	✓	
Depth:	DPT, DBT	✓	✓	
Rel. wind:	MWV	✓	✓	
Route:	WPL + RTE	✓	✓	
Alarm ctrl. (In- and output)	ALR + ACK		✓	✓
Navtex	NRX	✓	✓	
Search	FLIR		✓	
Option 1		✓	✓	✓
Option 2		✓	✓	✓
Option 3		✓	✓	✓
Option 4		✓	✓	✓
Printer:	USB port printer connection only			

Power Supply

Power supply Multipower - 115 & 230 VAC, 50 ~ 60 Hz + 24 VDC

Power cons. max 54W

Power cons. typ. 44W

Ports

Monitor 2x Displayport(DP)

Monitor input 1x HDMI (for Framegrabber version only³)

COM 4x RS422/485 isolated com ports, on phoenix 5-pin connectors
1x RS232/422/485⁴ non-isolated com port, on DB9M connector

Ethernet 2x 10/100/1000 Mbps Gigabit LAN on RJ45 connectors

USB 4x USB 2.0 (type A)

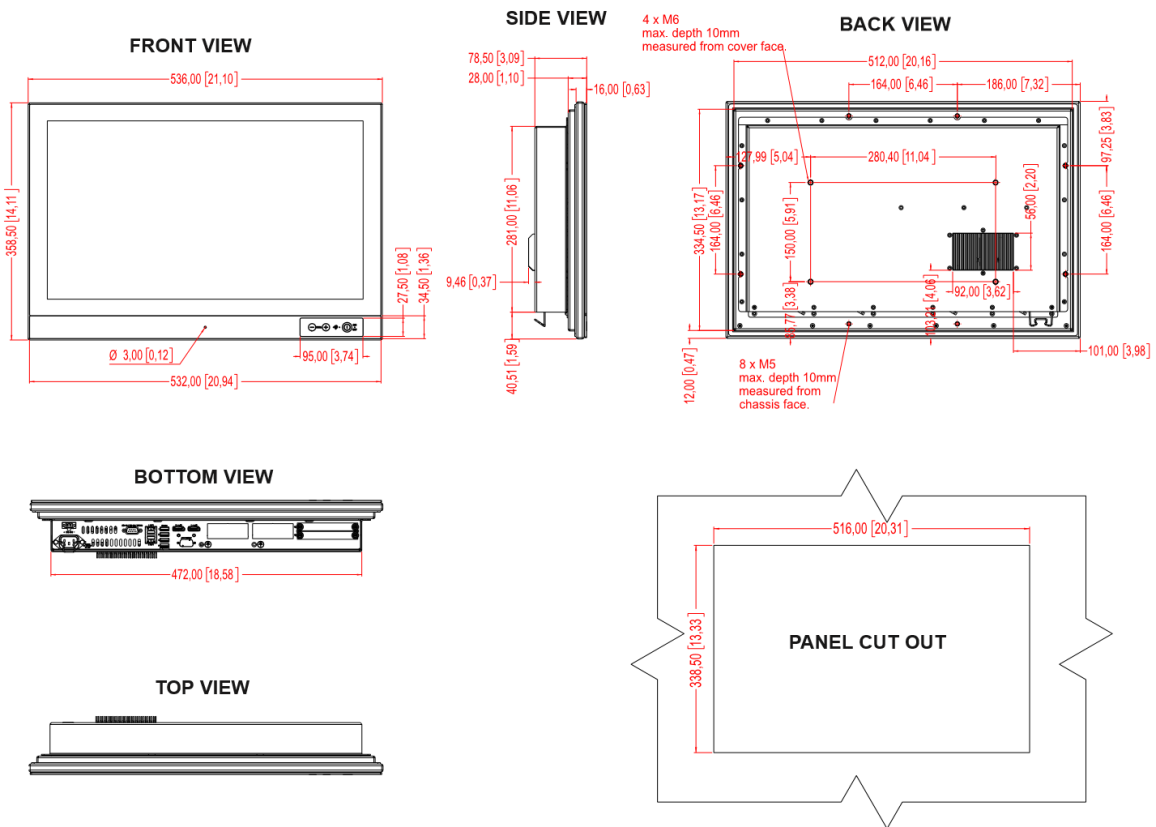
³ Framegrabber is an optional hardware configuration for COASTAL-E

⁴ Change RS mode in BIOS

EQUIPMENT LIST

1. Computer, HD 22T30
2. COASTAL-E/TECDIS 4.8.3.x software
3. COASTAL-E code plug
4. Accessories Box
 - a. CD-bag
 - i. Driver CD from Hatteland
 - ii. Chart database DVD C-Map Professional+
 - iii. Chart database DVD C-Map CAES
5. Cherry G84-4100 keyboard
6. Logitech Trackman Marble ELK trackball

HARDWARE DIMENSIONS



DOCUMENT REVISION HISTORY

1.0	18 th September 2019	Initial release	Cato Haugland
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