

Specifications:

TECDIS 2424

TECDIS 2424 is an all-in one ECDIS computer.

It is type-approved according to IMO regulations, allowing paperless navigation¹.

The integrated design makes it perfect for retrofit installation.



Standards compliance

TECDIS 2424 conforms to the following standards:

Regulation (EU) 2017/306:	Item No. MED/4.30
SOLAS 74 as amended	Regulations V/18, V/19 & X/3
IMO Resolutions	A.694(17) MSC.36(63) MSC.97(73) MSC.191(79) MSC.232(82) MSC.302(87) SN.1/Circ.266
IEC Standards	Performance testing – IEC 61174 (2015) Performance testing, presentation – IEC 62288 (2014) Environmental testing – IEC 60945 (2002) Serial interface testing – IEC 61162 (2010)

General specifications

Usable Charts	S-57 ed.3 S-63 (including Primar and AVCS) CM-93/3 (C-Map ENC / ENC+ / CAES / Professional+ ²)
Display	24-inch TFT LED display with Full HD resolution. Integrated in the unit.
Operating system	Windows 7 32-bit, English
Processor	Intel Celeron P4505 – 1.86Ghz
Chipset	Intel BD82QM57
Memory (RAM)	2 GB
Storage	80 GB SSD (approximately 50GB free)

¹ Paperless navigation requires a dual ECDIS installation.

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

Display of data

Own Ship:	GPS Position, COG, HDG, SOG, STW
Route:	Active route name, DTG, ETA, and CTS-, DTG-, TTG to selected WP
ARPA targets:	BRG, DIST, COG, SOG, POS User selectable: ARPA Target color, ARPA target track color, «Save» ARPA target track.
Others:	EBL, VRM, EBL list, Parallel index lines, Cursor position, True or relative cursor bearing
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 navigation monitoring	Off track, Waypoint, Arrival, Grounding, Depth
Alarms	Off track, Index Lane, Channel limit, Waypoint approach, Depth, Non ENC dangers, Restricted Areas, Cautions Ares, Possible danger, Standby mode
Other Functions	Night/Day presentation, ARPA-/radar target and -bearing display #1, ARPA-/radar target and -bearing display #2, MOB, SAR, Log book w/replay functionality, docking Conning display, Tooltip, three User defined chart presentation, easy transfer of installed configuration to replacement cold standby unit, easy screen dump facility when in navigation mode.

Other features

Autopilot output	Output of: APB, RMB, RMC, RTE
1-click chart loading	Available for charts from the following providers: Navtor ChartCo Nautisk Forlag
Navtex (option)	Connects to all Navtex receivers sending in the NRX format. You can display navtex messages with position references.
Weather overlay (option)	Advanced weather overlay feature using top quality commercial maritime weather forecast data available as a subscription service from C-Map.
Piracy overlay (option)	Piracy Information is available as an overlay on top of C-MAP charts in OceanView. The C-Map OceanView navigation planning tool visualizes information to help navigators and operators identify, understand and manage risks posed by maritime crime.
AIO overlay	Show Temporary and Preliminary Notices as an overlay on the chart, with the Admiralty Information Overlay (AIO) service by UKHO.

HW Connections

No. of serial ports	1x RS 232 (non-isolated) 1x RS422/485 (non-isolated) 4x NMEA RS422 (with phoenix 5-pin connectors)
Monitor	1x DVI and 1 ea. VGA (DB15F)
Ethernet	2x 10/100Mbps (RJ-45)
USB ports	3x USB 2.0 ports 1x USB 1.1 port
Keyboard port	1x PS/2 (Standard PS/2 mini DIN connector)
Audio ports	1x Mic. in (3.5mm jack) 1x Line in (3.5mm jack) 1x Line out (3.5mm jack)

Port description

Position 1	IEC 61162-1 (Ed. 3.0) (GNS, GGA, GLL, RMC)
Position 2:	IP or IEC 61162-1 (Ed. 3.0) (GNS, GGA, GLL, RMC, VDO)
COG/SOG1:	IEC 61162-1 (Ed. 3.0) (VTG, RMC, OSD, VDO)
COG/SOG2:	IP or IEC 61162-1 (Ed. 3.0) (VTG, RMC, OSD, VDO)
Heading 1:	IEC 61162-1 (Ed. 3.0) (HDT, OSD, VHW, VDO, THS)
Heading 2:	IP or IEC 61162-1 (Ed. 3.0) (HDT, OSD, VHW, VDO, THS)
Water speed:	IP or IEC 61162-1 (Ed. 3.0) (VHW, OSD, VBW)
Radar ARPA 1:	IP or IEC 61162-1 (Ed. 3.0) (TTM)
Radar ARPA 2:	IP or IEC 61162-1 (Ed. 3.0) (TTM)
Radar cursor 1:	IP or IEC 61162-1 (Ed. 3.0) (RSD)
Radar cursor 2:	IP or IEC 61162-1 (Ed. 3.0) (RSD)
AIS (In- and output):	IP or IEC 61162-1 (Ed. 3.0) (Alxxx)
Depth:	IP or IEC 61162-1 (Ed. 3.0) (DPT, DBT)
Rel. wind:	IP or IEC 61162-1 (Ed. 3.0) (MWV)
Route:	IP or IEC 61162-1 (Ed. 3.0) (WPL + RTE)
Alarm ctrl. (In- and output)	Proprietary protocol (TELKO) or IEC 61162-1 (Ed. 3.0) (ALR + ACK)
Navtex	IP or IEC 61162-1 (Ed. 3.0) (NRX)
Search	IEC 61162-1 (Ed. 3.0) (FLIR)
Option 1	IP, IEC 61162-1 (Ed. 3.0) or Proprietary
Option 2	IP, IEC 61162-1 (Ed. 3.0) or Proprietary
Option 3	IP, IEC 61162-1 (Ed. 3.0) or Proprietary
Option 4	IP, IEC 61162-1 (Ed. 3.0) or Proprietary
Printer:	USB port printer connection only

Power Supply

Power supply	Multipower - 115 to 230 VAC, 50 ~ 60 Hz + 24 VDC
Power cons. max	125W
Power cons. typ.	50W

Equipment List

Standard

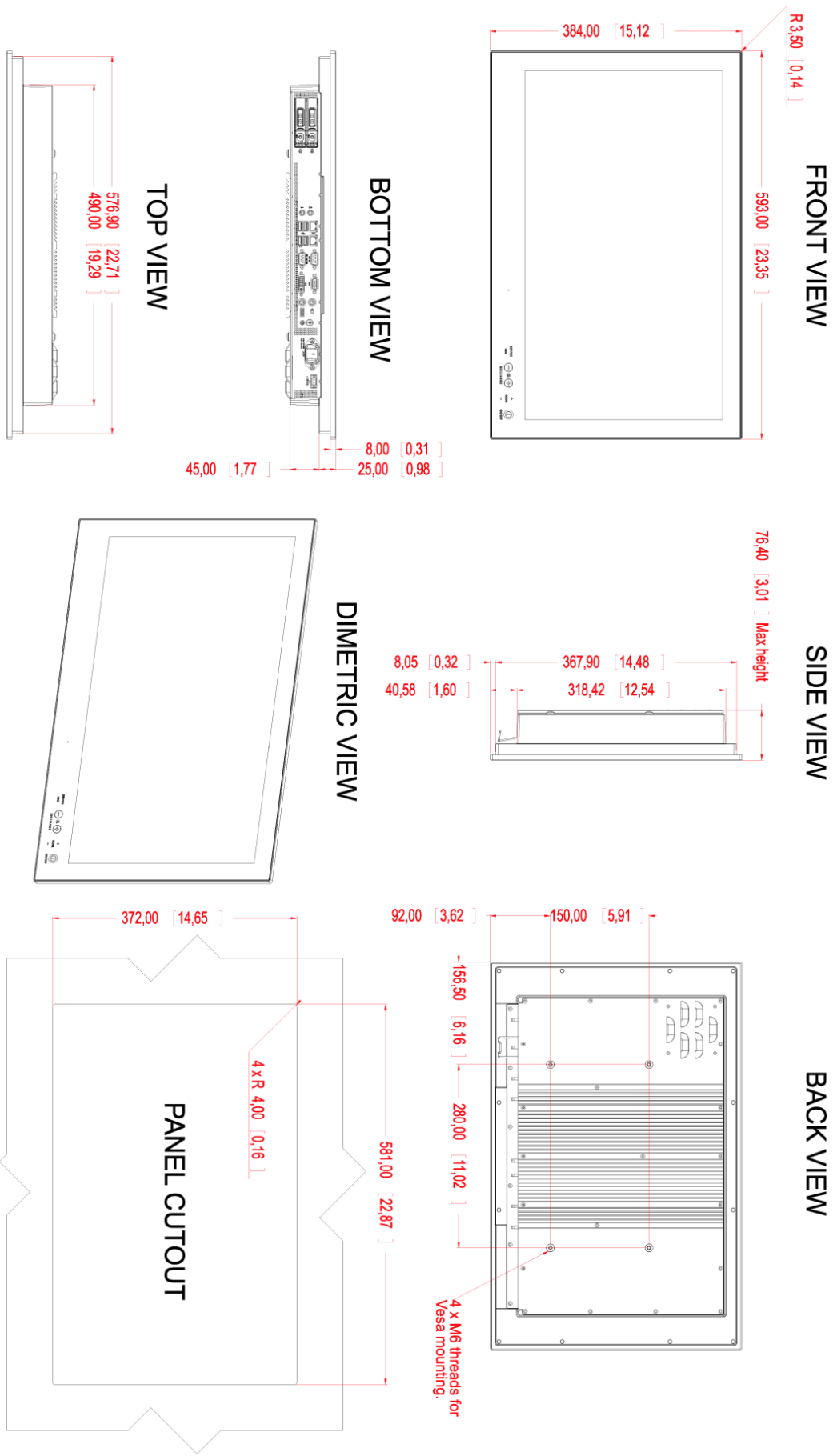
1. Computer, HD 24T21 MEC
2. TECDIS code plug
3. Accessories Box
 - a. User Manual, HD 24T21 MMC(and other variants) Hatteland Display, Computer
 - b. TECDIS Installation Manual
 - c. TECDIS User Guide
 - d. USB extension cable 1.0m
 - e. CD-bag
 - i. Driver CD from Hatteland
 - ii. Chart database DVD C-Map Professional+
 - iii. Chart database DVD C-Map CAES
 - iv. TECDIS Service Key, USB memory stick.
 - f. AC power cables 220 VAC/50Hz euro type F and 115 VAC/60Hz US type B power cable
4. Cherry G84-4100LCMGB-2, keyboard
5. Logitech TrackMan Marble ELK, mouse
6. Declaration of Conformity

Options

1. Mounting brackets incl. screws for console mount
2. Mounting brackets incl. screws for table mount
3. External CD/DVD-drive via USB
4. Telko Alarm Interface TEA-01
5. Navtex, TECDIS SW option programmed in code plug
6. Weather overlay, TECDIS SW option programmed in code plug
7. Piracy overlay, TECDIS SW option programmed in code plug

Document revision history

2.0	04 th January 2018	Second release – completely rewritten	Cato Haugland
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Units: mm [inches]