Specifications:

TECDIS 2424



TECDIS 2424 is an all-in one ECDIS computer.

It is type-approved according to IMO regulations, allowing paperless navigation[[1]](#footnote-1).

The integrated design makes it perfect for retrofit installation.

# Standards compliance

TECDIS 2424 conforms to the following standards:

 Marine Equipment Directive 2014/90/EU of the EC council.

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| Regulation (EU) 2018/773: | 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) |
| IMO Circulars | MSC.1/Circ 1503 |
| 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

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| **Usable Charts** | S-57 ed.3S-63 (including Primar and AVCS)CM-93/3 (C-Map ENC / ENC+ / CAES / Professional+[[2]](#footnote-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) |
| 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, POSUser 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 Areas, Possible danger, Harbour Mode |
| **Other Functions** | Single click chart update, 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, 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 |
| **Presentation Modes** | Type approval for installation with Raytheon Anschütz NP 5500 autopilot |
| **Radar Overlay (option)** | Display of radar echoes from any Furuno radar |
| **Seismic streamers (option)** | Streamer configuration with up to 24 streamers displayed graphically in chart. |
| **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.  |

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| 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 ports1x 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) |
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| Port description | IP | IEC 61162-1 Ed 4.0 | Proprietary |
| **Sensor** | Sentences |
| **Position 1:** | GNS, GGA, GLL, RMC |  | Hake |  |
| **Position 2:** | GNS, GGA, GLL, RMC, VDO | Hake | Hake |  |
| **COG/SOG1:** | VTG, RMC, OSD, VDO |  | Hake |  |
| **COG/SOG1:** | VTG, RMC, OSD, VDO | Hake | Hake |  |
| **Heading 1:** | HDT, OSD, VHW, VDO, THS |  | Hake |  |
| **Heading 2:** | HDT, OSD, VHW, VDO, THS | Hake | Hake |  |
| **Water speed:** | VHW, OSD, VBW | Hake | Hake |  |
| **Radar ARPA 1:** |  TTM | Hake | Hake |  |
| **Radar ARPA 2:** |  TTM | Hake | Hake |  |
| **Radar cursor 1:** |  RSD | Hake | Hake |  |
| **Radar cursor 2:** | RSD | Hake | Hake |  |
| **AIS (In- and output):** | AIxxx | Hake | Hake |  |
| **Depth:** | DPT, DBT | Hake | Hake |  |
| **Rel. wind:** | MWV | Hake | Hake |  |
| **Route:** | WPL + RTE | Hake | Hake |  |
| **Alarm ctrl. (In- and output)** | ALR + ACK |  | Hake | Hake |
| **Navtex** | NRX | Hake | Hake |  |
| **Search** | FLIR |  | Hake |  |
| **Option 1** |  | Hake | Hake | Hake |
| **Option 2** |  | Hake | Hake | Hake |
| **Option 3** |  | Hake | Hake | Hake |
| **Option 4** |  | Hake | Hake | Hake |
| **Printer:**  | USB port printer connection only |

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| 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 or EEC
2. TECDIS code plug
3. Accessories Box
	1. TECDIS Installation Manual
	2. TECDIS User Guide
	3. USB extension cable 1.0m
	4. CD-bag
		1. Driver CD from Hatteland
		2. Chart database DVD C-Map Professional+
		3. Chart database DVD C-Map CAES
		4. TECDIS Service Key (USB memory stick)
	5. 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

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| --- | --- | --- | --- |
| 1.0 | 22nd August 2013 | Initial release | Cato Haugland |
| 2.0 | 04th January 2018 | Second release. Completely rewritten. | Cato Haugland |
| 3.0 | 20th August 2018 | Third release. Updated technical drawing presentation and template design. | Cato Haugland |



1. Paperless navigation requires a dual ECDIS installation. [↑](#footnote-ref-1)
2. C-Map Professional+ is not an official chart service, it does however provide world scale charts [↑](#footnote-ref-2)