

# K-NAV ECDIS



KONGSBERG



## ELECTRONIC CHART DISPLAY AND INFORMATION SYSTEM

K-Nav ECDIS is a standalone navigation information system that displays electronic charts along with position, heading and other data from the vessel's navigation sensors. It is designed to assist mariners in route planning and route monitoring and to enhance their immediate navigational awareness.

K-Nav ECDIS is easy to install - it just requires connection to the navigation sensors and power.

It has a simplified operator panel, containing just an ergonomic trackball and two buttons for alarm handling.

The system supports all ENC official charts, including those available from Navtor.

It also accepts CM-93 vector charts from C-Map, and ARCS charts from the United Kingdom Hydrographic Office (UKHO).

## FEATURES

- Cost-efficient ECDIS, providing all functions required by IMO
- Supports ENC S57 Edition 3 (official charts, for example, from Navtor) and S63 security scheme
- Vector charts: CM-93/3 from C-Map/Jeppesen
- Raster charts: ARCS (UKHO) or Seafarer (AHO)
- Simple operator panel, containing just a trackball plus alarm sound-off and ACK buttons
- ECDIS colour-calibration LED indicator
- Automatic colour calibration (on palette change)

- Type approved, all-in-one PC/display
- Interface box for easy connection to sensors and LANs
- Route planning and validation
- Continuous monitoring of selected route plan
- At-a-glance presentation of sensor data and status
- Automatic selection by the CCRS of best available sensors
- Monitoring and recording of depth data (received from the vessel's echo-sounder)
- Easy integration with existing bridge systems from Kongsberg Maritime

# TECHNICAL SPECIFICATIONS

## Certifications

K-Nav ECDIS complies with:

- IEC 61162-1 (2010) and IEC 61162-1 (2016)
- IEC 61174 Ed. 4 (2015)
- IEC 62288 (2014)
- IEC 60945 Ed. 4 (2002-08)
- EU RO MR (Mutual Recognition covers DNV, BV, ABS, GL, NK, and LRS certificates)

## Option modules

- Seismic monitoring
- Survey planning
- Site map overlay
- Off-course monitor
- Weather-related services
- Remote maintenance and diagnostics

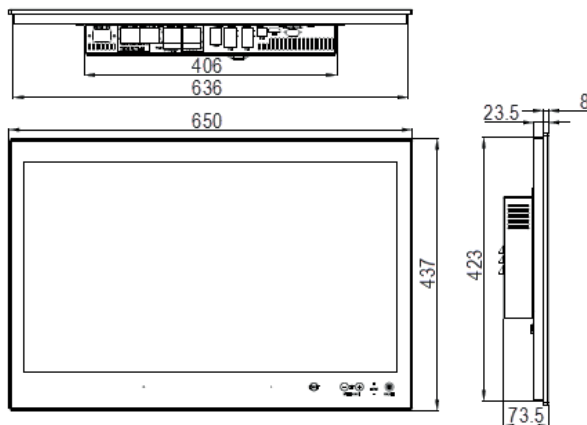
## Electrical

Input voltage: 115 and 230 VAC +/-10%  
 Frequency: 50/60 Hz +/- 5%  
 Power consumption: 138 W (max)

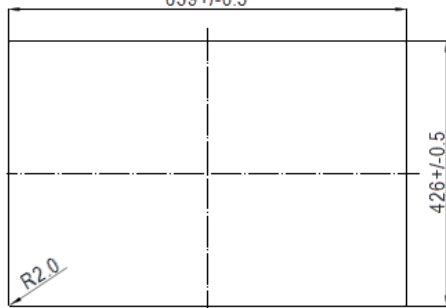
## 27" Display

Resolution: 1920 x 1080 (FHD)  
 Colours: 16,7 million (maximum)  
 Viewing angle: +/-89/89/89/89 degrees typical  
 (up/down/left/right)  
 Contrast ratio: 3000:1 (typical)  
 Luminous intensity: 300 cd/m2  
 Dimensions: 650 x 437 x 74 mm

PANEL PC 27"



CUTOUT



Note:  
 1. Recommended Panel thickness for Console mounting is 5mm.  
 2. Panel PC is adapted also for Table Mounting Bracket

Specifications subject to change without any further notice.

## Serial ports

Nine serial ports are available: 7 x input, 2 x input/output.

Three of the input ports are for:

- 1 x heading reference system
- 1 x speed log
- 1 x DGPS

The two I/O ports are for:

- 1 x BAM (Bridge Alarm Management) system
- 1 x NMEA serial output to VDR

Possible uses of the remaining serial input ports include:

- 1 x additional DGPS
- 1 x echo-sounder
- 1 x NAVTEX system
- 1 x radar
- 1 x AIS

## Digital interface ports

Two digital interface ports are available for:

- 1 x UPS alarm
- 1 x BNWAS timer-reset signal

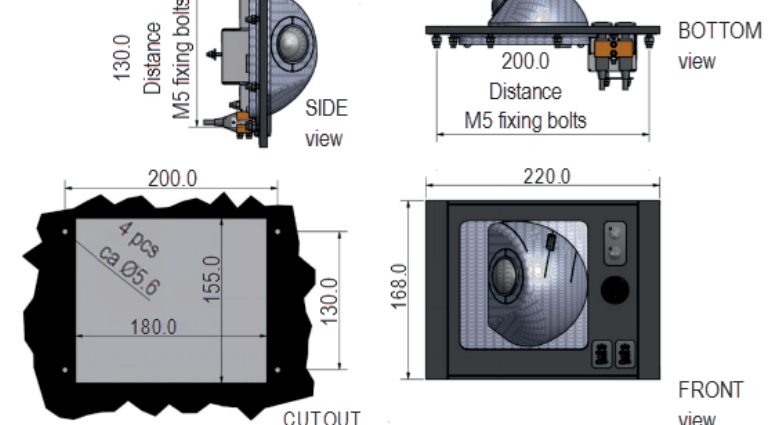
## Ethernet ports

Up to 5 Gigabit Ethernet LAN ports are available for redundant connection to process LANs on the bridge.

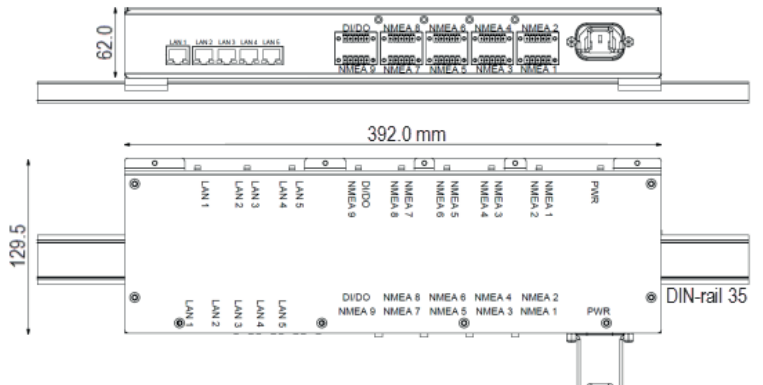
## VDR interface

VDR data is available over the LAN (IEC 61162-450) or using a combination of the display port (DP ++ 1.2 out) and the NMEA serial output port.

TRACKBALL



INTERFACE BOX



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