

# K-NAV ECDIS



KONGSBERG

## ELECTRONIC CHART DISPLAY AND INFORMATION SYSTEM

### KEY POINTS

- Cost-efficient ECDIS solution
- Easy installation
- Type approved 27" (or 24") Panel PC
- Optional radar / AIS targets
- Route planning and validation
- At-a-glance presentation of sensor data and status

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 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

- Includes all ECDIS 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.
- Raster charts: ARCS (UKHO) or Seafarer (AHO).
- Continuous monitoring of selected route plan.
- Operator panel with trackball plus alarm sound-off and ACK buttons.
- ECDIS colour-calibration LED indicator.
- Automatic selection of best available sensors.
- Automatic colour calibration (on palette change).
- Integrates with existing navigation bridges from Kongsberg Maritime.
- Choice of 27" or 24" Panel PC available for built-in consoles.

### Approvals

K-Nav ECDIS is MED certified by DNV GL.

# Technical details

## Panel PC

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)  
 Dimensions (27"): 650 x 437 x 74 mm  
 Dimensions (24" built-in): 593 x 384 x 74 mm

## 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

5 x 1GB Ethernet LAN ports.

## 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.

## Electrical

Input voltage: 230 VAC ±10 %  
 Frequency: 50/60 Hz ±5 %  
 Power consumption: 198 W (typical)

## KM console

Dimensions (W x H x D) : 654.0 x 1149.6 x 1013.2 mm  
 Weight: Approx. 80 kg

## Key measurements

