K-Nav Radar is a stand-alone navigation information system that provides the operator with radar video and target tracking as well as position, heading and other data from the vessel’s navigation sensors.

K-Nav Radar is designed to enable mariners to avoid collisions and generally to enhance their navigational awareness.

K-Nav Radar is easy to install. It connects directly to the ship’s sensors and power, and - by two network adapters - to a digital radar interface.

The system has an attractive user interface with a high resolution colour display and ergonomically designed operator panel.

**Features**

- Square radar picture (27% larger radar coverage on the screen).
- Includes all radar functions required by IMO.
- Instant presentation of trails (afterglow).
- Trails maintained after reset of screen-center or change of range
- Manual and automatic target acquisition and tracking.
- Max. target speed of 100 knots, relative.
- EBL/VRM function, giving accurate range / bearing from own-ship.
- Instant response to gain and clutter controls (the entire radar picture is instantly transformed in response to a new gain or clutter setting by the operator).
- Integrates with existing navigation bridges from Kongsberg Maritime.
- Choice of 27” or 24” Panel PC available for built-in consoles (the 24” option meets class requirements for CAT 2 vessels).

**Approvals**

K-Nav Radar is MED certified by DNV GL (as radar equipment CAT 1C).
### 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

#### 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

#### 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

#### Key measurements

![Diagram of Panel PC 27" (24"

**Note:**
1. Recommended Panel thickness for Console mounting at 6mm.
2. Panel PC is adapted also for Table Mounting Bracket.