K-Nav Radar is a stand-alone navigation information system that provides the operator with radar video and 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 carefully designed operator panel.

Max target speed 100 knots relative
11 range scales (0.125-96 NM)
Stern indicator
Three colour palettes allow easy adjustment of the radar picture for current light conditions
Square radar picture, which means a 27% larger radar coverage on the screen
Trails maintained after a reset of the screen center and after changes of range
Manual and automatic target acquisition and tracking
EBL/VRM function giving accurate range and bearing from the 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

STAND-ALONE NAVIGATION INFORMATION SYSTEM

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FEATURES

• Cost-efficient radar solution
• Easy installation
• 26” flat panel colour display (TFT)
• Includes all radar functions required by the IMO
• Optional chart underlay to the radar video
• Instant presentation of trails (afterglow)
• Manual and automatic clutter reduction
• Echo stretch
• AIS targets displayed
• Monitoring of sailing routes
• Dedicated operator panel for ease of operation
TECHNICAL SPECIFICATIONS

Standards
The equipment is designed to conform to the following standards:
• IMO Res.A.278(VIII)
• IMO Res.A.694(17)
• IMO Res.A.823(19)
• IMO Res.MSC.191(79)
• IMO Res.MSC.192(79)
• ITU-R M.1177-3 (06/03)
• IEC 61162 Series
• IEC 62288 Ed.1.0 (2008)
• IEC 62388 Ed.1.0 (2007)

Interfaces
An NMEA interface module enables the K-Nav Radar to communicate with:
• 1 x echo-sounder (depth)
• 1 x speed log
• 2 x DGPS
• 1 x NAVTEX system
• 1 x AIS
• 1 x heading reference system
• 1 x radar (target output)
• 1 x central alarm system

There are also digital interfaces for receiving alarm input from the UPS and for transmitting a general radar alarm to other systems (such as Voyage Data Recorder systems).

A dual Ethernet (IEEE 802.3) connection to the digital radar interface provides redundant access to the radar input.

Environmental specification
K-Nav Radar complies with IEC 60945

Electrical
Input voltage: 230 VAC +/- 10%
Frequency: 50/60 Hz +/- 5%
Power consumption: 340 W

Specifications subject to change without any further notice.