K-BRIDGE RADAR

KONGSBERG

BENEFITS

- Optional upgrade to CP360 “full picture” performance - radar video from up to 4 transceivers is merged seamlessly into a single 360° radar view
- When the radar is installed as part of the K-Bridge Integrated Navigation System (INS), an identical target view is presented on all radar and ECDIS operator stations
- In K-Bridge INS, duplicate targets from multiple sources are presented as a single target (with the same global ID) on all operator stations
- Integrated handling of the navigation sensors, providing harmonized own-ship data (position, course and speed) on all K-Bridge operator stations

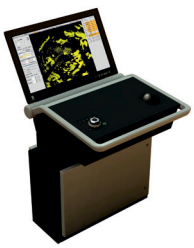
Radar display and control unit

K-Bridge Radar provides the operator with radar video and tracking on a state-of-the-art radar display and control unit. The system is easy to use, and all the most frequently used controls are directly available from the operator panel.

S-band antenna

X-band antenna

The example above shows two K-Bridge Radar display units (2nd and 4th from left) installed on the forward bridge as part of a K-Bridge Integrated Navigation System (INS). A wide choice of hardware is available, including combinations of operator chairs with parallel instrument consoles (including touch-control panels) and facing displays (as shown), or more traditional upright consoles, each with integrated control panel and display. The upright consoles are suitable for use on the bridge wings or in a curved array formation on the main bridge.



Features

- Radar display can be either a dedicated radar console or multi-functional display unit, switchable between Radar, ECDIS, Conning and CAM (Central Alarm Management) system.
- Square radar picture which means a 27% larger radar coverage on the screen
- 26” flat panel colour display (TFT)
- Optional dedicated operator panel for ease of operation
- Digital transmission of radar signals (GigE) for minimum signal loss
- Manual and automatic radar target acquisition and tracking
- Charts displayed as underlay to the radar video
- Instant update of trails (afterglow) when adjusting clutter settings
- Trails maintained after a reset of the screen centre and after changes of range setting
- Gyro-stabilized head-up presentation mode makes True trails available on a head-up display
- Manual and automatic clutter reduction with instant response in the radar picture
- Optional relief background available for improved detection of moving or weak targets
- Echo stretch
- Integrated handling of the navigation sensors, providing harmonized own-ship data (position, course and speed) on all K-Bridge operator stations
- Presentation of targets from AIS
- Target speed up to 100 knots relative
- Eleven range scales (0.125-96 nm)
- Bearing scale that always gives the correct bearing from own ship
- Three colour palettes give easy adjustment of the radar picture for the current light conditions
- Two Electronic Bearing Lines/Variable Range Markers (EBL/VRM)
- Remote control of K-Bridge Autopilot in Heading, Course, Waypoint and Track control mode

DIMENSIONS

Console (typical)

Height	Width	Depth	Weight
7440 mm	1200 mm	880 mm	c80 kg

Radar Interface Network (RIN) unit

Height	Width	Depth	Weight
400 mm	400 mm	210 mm	9 kg

ELECTRICAL

Input voltage	115/230 VAC
Frequency	50/60 Hz
Power consumption	Max: 500 W (incl. computer)

DISPLAY

Resolution 26”	1920x1200 pixels

ENVIRONMENTAL SPECIFICATIONS

In compliance with IEC 60945.

ELECTRONIC CHARTS

The following charts are supported:

- ENC: S-63 and S-57 Edition 3 (official charts)
- Vector charts: Navtor, AVCS (UKHO), Primar, Jeppesen/CMap

LAN

K-Bridge Radar can be configured to communicate with:

- K-Bridge ECDIS
- K-Bridge Multi Functional Display
- K-Bridge Conning
- K-Bridge CAM (Central Alarm Management) system
- K-Bridge Autopilot
- K-Bridge Sensor Integrator
- K-Chief Vessel automation system
- K-Pos Dynamic positioning system
- VDR - Voyage Data Recorder

TYPE APPROVAL

The K-Bridge Radar is approved in accordance with EU MED 96/98/EC annex A.1/4.38 (as Radar equipment CAT 1 with Chart option) and annex A.1/4.34 (as Radar equipment CAT 1).

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