

K-Bridge Radar



KONGSBERG



Radar display and control unit

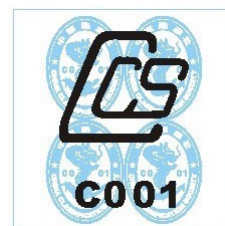
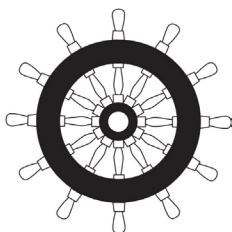
K-Bridge Radar provides the operator with radar video and tracking on a state-of-the-art radar display and control unit. The system is easy to use, with all the most frequently used controls directly available from the operator panel.

Features

- The display can be either a dedicated radar console or a multi-functional display unit, switchable between Radar, ECDIS, Conning and CAM (Central Alarm Management) system.
- Square radar picture (27% larger coverage).
- 27", 32", 43" or 55" (1920 × 1080 pixel) 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 screen centre or range change.
- Gyro-stabilized head-up presentation mode makes True trails available on a head-up display.
- Manual and automatic clutter reduction with instant response.
- Optional relief background for improved detection of 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.

Benefits

- Certified cyber-secure, according to the requirements of IEC 61162-460 (2024).
- 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.



Features (cntd.)

- 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.

The example illustrated on the right shows two 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, touch-control panels, and facing displays (as shown).



Alternatively, more traditional upright consoles are available, each with an integrated control panel and display. Upright consoles are suitable for use on the bridge wings or in a curved array formation on the main bridge.

Technical data

Dimensions

Console (typical)

Height	Width	Depth	Weight
7440 mm	1200 mm	880 mm	80 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

Size	27", 32", 43", 55"
Resolution	1920 × 1080 pixels

Environmental specifications

In compliance with IEC 60945

Electronic charts

The following charts are supported:

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

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).