

The Kongsberg/K-Bridge VDR Voyage Data Recorder



KONGSBERG

Voyage Data Recorder

Description

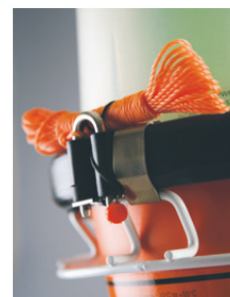
Kongsberg Maritime brings the Voyage Data Recorder's one step further with a new reliable marine rugged VDR.

The platform is based on modules which enables you to choose the level of recording data from the most basic system up to full option version with a large number of I/Os and a LAN interface to K-Bridge.

We have designed the VDR to be compatible with all navigation equipment performing under the toughest marine conditions as well as serving as an ideal upgrade option for older VDRs. The software provides you with the latest technology for solid non-interruptible hardware and full control on a Linux platform.

The stable design gives you a discrete VDR with a user-friendly remote control unit featuring backup for easy handling in emergency situations. The VDR can be upgraded with an extended, portable memory and a live player.

The system meets all relevant requirements of the IMO standards and EU directives, i.e. IMO Resolution A.861(20), MSC.214(81), IEC 61996-1 and IEC 61996-2.



- Low lifecycle cost
- Built to meet future demands
- Easy updates by crew
- Remote diagnostic
- Hot swap replacement (hardware & software)
- Flexible hardware configuration
- Based on small, optimized modules
- Embedded design
- Solid state



Features

Marine Rugged

Modular, reliable design with a solid state, non interruptible hardware built on fully controlled software in a linux environment.

Compatible

Verified and suitable to all major and approved navigation equipment in the world, which includes both new builds and retrofits.

Discrete

The system status is monitored and easily operated through a discrete graphical colour display equipped with a user friendly interface as standard.

LAN Interface

LAN interface to K-Bridge and Kongsberg systems. Reduces hardwired interfaces and system components.

Physical properties

Main Unit (MU)

- Length: 570 mm
- Width: 440 mm
- Depth: 176 mm
- Weight: 19 kg

Audio Mixer (AMU)

- Length: 295 mm
- Width: 260 mm
- Depth: 52 mm
- Weight: 2.5 kg

Remote Control Unit (RCU)

- Length: 144 mm
- Width: 144 mm
- Weight: 0.3 kg

Microphone (AM1)

- Length: 144 mm
- Width: 36 mm
- Weight: 0.2 kg

Portable Black Box (PBB)

- Length: 165 mm
- Width: 68 mm
- Weight: 1.5 kg

Component Specifications

Main Unit (MU)

- IEC 60945 protected equipment*
- 12 hours recorded period, stored securely
- Data output for industrial USB memory
- NMEA 0183 INPUT: Up to 19 channels IEC 61162-1, 1 channel according to IEC 61162-1, 2 (high-speed)
- NMEA 0183 OUTPUT: 1 channel, IEC 61161-1
- Service connection: 100Base-TX (IEEE 801.3)
- Communication interface: 100Base-TX (IEEE 801.3)
- Power failure: 2 hours of continuous recording
- Voltage: 115-230 VAC @ <120 W

Audio Mixer Unit (AMU)

- IEC 60945 protected equipment*
- Up to 8 microphones with self-test mixed to 4 audio channels.
- 2 VHF input channels

Video Grabber Unit (VGU)

- IEC 60945 protected equipment*
- Supported Radar display input, up to 1920x1200 and 60 hz

Can be configured for a capture interval as short as 5 seconds.

Remote Control Unit (RCU)

- IEC 60945 protected equipment*
- User-friendly TFT colour display with system status messages
- Incident button: Store a predefined amount of time on an industrial USB memory.
- Acknowledge/Mute button: Confirm and silence alarms
- Adjustable dimmer

Microphone (AM1)

- IEC 60945 protected equipment*
- Standard feature for automatic self testing sequence
- Housing for outdoor use, IP66 classed

Fixed Capsule (VDR)

- IEC 61996-1 compliant
- Min 12 hour recording
- Penetration: 250kg/100mm probe at 3 m
- Fire protection: 60 minutes at 1100°C. 10 hours at 260°C
- Impact protection: 50g, 11m/s and half sine chock
- Immersion: 6000 m depth for 30 days

Float Free Capsule

- IEC 61996-2 compliant
- Min 12 hour recording
- Immersion: 10m for 10 minutes

**Refer to manual for detailed temperature range for sub-parts*

Portable Black Box (PBB)

(Optional)

- Environmental conditions: Not according to IMO mandatory regulations*
- Storage capacity: Min 30 days
- Communication interface: 100Base-TX (IEEE 802.3)

Signal Converter

- IEC 60945 protected equipment*
- Analogue/Digital: 1024 separated inputs on each Gateway +/- 10 VDC 8 inputs on each module Digital 16-32 inputs on each module Numbers of different interfaces/adapters are available on request.