

K-BRIDGE VDR MK2



KONGSBERG



VOYAGE DATA RECORDER

The marine-rugged K-Bridge VDR Mk2 from Kongsberg Maritime is built to perform under the toughest marine conditions and is compatible with all commercially approved navigation equipment.

The K-Bridge VDR Mk2 records data reliably and stores it safely in rugged storage devices.

Access to the recorded data is not restricted to investigators after an accident or major incident. Instead the data can be analyzed by vessel owners, crew members, or anyone authorized who wants to find out about the vessel's operation at a particular time in the past.

Valuable information can be gathered, for example, from data recorded when an incident has been successfully avoided as well as following a disaster.

The recorded data includes captures of the Radar and ECDIS displays as well as AIS and navigation sensor data.

Two levels of access are available for the playback software that is provided for examining the recorded data: one level includes access to audio recorded on the bridge.

The K-Bridge VDR Mk2 meets all requirements of the relevant IMO standards and EU directives.

FEATURES

- Flexible hardware configuration
- Based on small, optimized modules
- High quality design
- Easy to install
- Easy to maintain
- Easy to replay recorded data for authorized persons



TECHNICAL SPECIFICATIONS

Main Unit (MU)

Environmental conditions	IEC 60945 protected equipment IP22
Battery backup	2 hours of continuous audio recording
Recording period	720 hours/30 days
NMEA inputs	Up to 24 NMEA inputs (IEC 61162-1) 1 NMEA input (IEC 61162-2)
Data	Network streams 40x (4800 Bd) / serial streams (1x 38400Bd) + 6/12/18 4800 Bd
Alarm management system	(IEC61162-1) Rx/Tx
Network connection	100Base-TX (IEEE 802.3)
Protocols	Radar/ECDIS over LAN (IEC 62388 annex H2) Modbus TCP Proprietary
Service communication	100Base-TX (802.3)
Monitoring	Web viewer/monitoring and configura- tion
System voltage	115-230 VAC
Power consumption	<120 W
Dimensions	583 x 440 x 177 mm
Weight	19 kg

Audio mixer unit (AMU)

Environmental conditions	IEC 60945 protected equipment
Microphone inputs	8 microphone inputs
VHF inputs	2 inputs 0 dBV
Max no of AMU	2 pcs
Dimensions	295 x 258 x 48 mm
Weight	2.5 kg

Remote control unit (RCU2)

Environmental conditions	IEC 60945 protected equipment
Display	TFT colour display
Built-in functions	Operational performance test and maintenance function
Dimensions	144 x 144 x 75 mm
Weight	0.6 kg



Portable black box (PBB) optional

Storage capacity	> 90 days
Dimensions (with bracket)	166 x 102 x 240 mm
Weight (with bracket)	2.6 kg

Fixed capsule (ProCap)

Environmental conditions	Compliant with IEC 61996-1
Recording period	Min 48 hours
External protection	60 minutes at 1100 °C, 10 hours at 260 °C Impact 50 G, 11 m/s and half sine shock 6000 m depth for 30 days
Dimensions	Ø 220 mm; height 387 mm
Weight	Mounting base Ø 320 mm 20.5 kg

Float-free capsule (Tron)

Environmental conditions	Compliant with IEC 61996-1
Recording period	Min 48 hours
Immersion	10 m depth for 5 minutes
Dimensions (with bracket)	553 x 236 x 214 mm
Weight (with bracket)	4.8 kg

Signal converter (DDU)

Environmental conditions	IEC 60945 protected equipment
Inputs	1 x 8-channel digital input terminal unit (dry contact)
Optional inputs	1 x 2-channel analogue input terminal unit (+-10 V / +- 20 mA / 4-20 mA) 1 x 8-channel digital input terminal unit (dry contact)
	Maximum of 16 I/O terminal units per DDU
Dimensions	583 x 440 x 180 mm
Weight	13.5 kg

Microphone AM2

Environmental conditions	IEC 60945 protected equipment
Features	Automatic self-testing sequence Optional housing for outdoor use (IP66 certified)
Dimensions	144 x 48 x 30 mm
Dimensions (with housing)	168 x 48 x 51 mm
Weight	0.2 kg
Weight (with housing)	0.5 kg

Compliance

- IMO Res. A.694(17)
- IMO Res. MSC.36(63)-(1994 HSC Code) 13
- IMO Res. MSC.97(73)-(2000 HSC Code) 13
- IMO Res. MSC.191(79)
- IMO Res. MSC.333(90)
- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)
- IEC 61162 Series
- IEC 61996-1 Ed.2.0 (2013) incl. IEC 61996-1 Corr. (2014)
- IEC 62288 Ed. 1.0 (2008)

Specifications subject to change without any further notice.

