

# VOYAGE DATA RECORDER (VDR)

## NEW GENERATION VDR



The next generation Kelvin Hughes VDR has been designed with a combination of a new real-time data display, increased storage capacity and replay software functionality, allowing the customer to review incidents.

VDRs enable investigators to review procedures and actions taken in the moments before an incident, to assist in identifying the cause.

The new VDR is compliant to the latest performance standards and technical requirements, as defined in MSC.333(90) and IEC 61996-1 Ed. 2.

The system offers Kelvin Hughes customers a cost-effective solution to future proof their vessels.

Features	
CONTROL	A high resolution touch screen display with 'On Demand' system performance test Ethernet Interface for Data Collection and VESA mounting option (8" or 9.7" displays available)
SYSTEM MONITOR	Continuous and manual health checking of the system displayed using a traffic light system for simple fault diagnosis.
SIMPLE PLAYBACK	'Audio Scan' and 'Jump to Incident' functions, providing intuitive data review by ship's Officers, Engineers, and incident investigators.  Straight forward data download processes, using a laptop or office PC, connected to the Ethernet port on the touch screen display.
EASY INSTALLATION	Allows for simple Retrofit to existing Kelvin Hughes VDR installations, using cabling from previous VDR/S-VDR systems to be incorporated, removing the requirement for new cable runs.  The new, larger, cable management system accommodates bulky VGA connectors and thick power cable to pass into the main unit along with the smaller data cables.
COMPLIANT	Designed with a high-performance main processor using Solid State technology, combining reliable performance with superior user experience.  Available in both S-VDR and VDR.  Exceeding MSC.333(90) regulations, Kelvin Hughes VDR is designed as a 'Fit and Forget' system.

# VDR SYSTEM SPECIFICATIONS

Data Collection	S-VDR	New Kelvin Hughes VDR
DATE AND TIME	■	■
VESSEL POSITION, SPEED AND HEADING	■	■
BRIDGE AUDIO	■	■
COMMUNICATION AUDIO	■	■
RADAR DATA	When available, radar data MUST be recorded	■
AIS	When radar data is not available, AIS data MUST be recorded	■
ECHO SOUNDER	Recorded if suitable equipment is fitted	■
ENGINE AND RUDDER ORDER AND RESPONSE		■
HULL OPENING WATERTIGHT AND FIRE DOOR STATUS		■
MAIN ALARMS		■
SECOND RADAR, ECDIS, INCLINOMETER		■
ACCELERATION AND HULL STRESSES		Recorded if suitable equipment is fitted
WIND SPEED AND DIRECTION		

System Information	Details	Dimensions (hwd)
MEU (MAIN ELECTRONIC UNIT)	10 audio channels 21 NMEA - data inputs 2 DVI - D/DVI – A/VGA inputs for radar capture 2 x Ethernet interface for ships network (ECDIS) Power 24v DC	500 x 570 x 160mm
FIXED HARDENED CAPSULE	60 days data storage 20m cable Ethernet interface Power 24v DC (supplied from MEU)	153 x 180 x 236mm
FLOAT FREE CAPSULE	60 days data storage 20m cable Ethernet interface Power 24v DC (supplied from MEU)	293 x 197 x 140mm
BCP (BRIDGE CONTROL PANEL)	Graphical colour display Continuous and manual health check Power 24v DC (supplied from MEU)	188 x 245 x 56mm
BRIDGE MICROPHONE	Built in self-test Power 12v DC (supplied from MEU)	28 x 113 x 63mm
BRIDGE WING MICROPHONE	IP66 waterproof Built in self-test Power 12v DC (supplied from MEU)	28 x 113 x 63mm
PSU (POWER SUPPLY UNIT)	110 to 230v AC 50/60hz Battery back up AC fail output Power 24v DC output	400 x 300 x 210mm

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