

Danelec systems
Solid · Safe · Simple

DM400 VDR

Voyage Data Recorder

DM200 S-VDR

Simplified Voyage Data Recorder

DM200 L-VDR

Light Voyage Data Recorder



HIGHLIGHTS

Danelec Marine produces one of the most reliable and cost-effective VDR systems available. More than 4.500 vessels carry a Danelec Marine VDR product.

Extreme reliability

- ▶ Made specifically for marine application
- ▶ Latest technology in solid-state memory devices (no moving parts)

Cost-effective

- ▶ Easy to install and created to minimize service time/cost
- ▶ User friendly web-based configuration
- ▶ Easy radar connection setup using advanced auto-sync functionality

Service friendly

- ▶ Easy replacement of modules due to modular design of DAU and SIU
- ▶ "Hot swap" capability of modules
- ▶ Supported by Danelec Marine's worldwide service network

Ultra compact and lightweight

- ▶ DM400 VDR: appr. 65 kg
- ▶ DM200 S-VDR: appr. 40 kg
- ▶ DM200 L-VDR: appr. 23 kg

Ideal for retrofit installation

- ▶ Modular and expandable design that fits most installations

Unique options

- ▶ Remote interface access
- ▶ 90+days data storage

VOYAGE DATA RECORDERS

Like black boxes carried on an aircraft, Voyage Data Recorders (VDRs) enable accident investigators to review procedures and instructions in the moments during an incident and help to identify the cause of any accident.

According to IMO regulations, passenger ships and ships other than passenger ships of 3000 gross tonnage and upwards constructed on or after 1 July 2002 must carry VDRs to assist in accident investigations and a simplified VDR (S-VDR) must be fitted on existing cargo ships of 3000 gross tonnage and upwards constructed before 1 July 2002.

DANELEC MARINE VDR RANGE

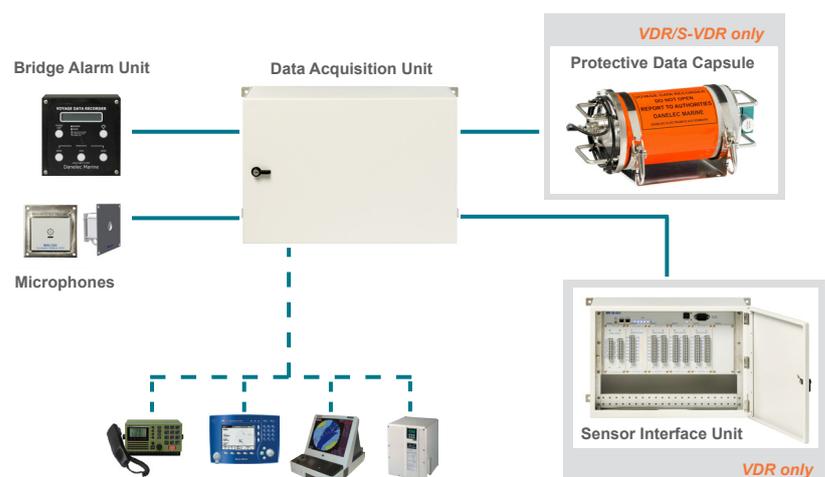
Danelec Marine VDR systems are designed to record and store, in a secure and retrievable form, information concerning the ship's position, movement, physical status and command and control for the period leading up to and following an incident.

The new 3rd generation of Danelec Marine VDR products offers an unmatched flexibility in a compact and lightweight, easy to install solution. The product range is designed with a strong focus on reliability and functionality in maritime environments.

The Danelec Marine VDR range consists of the DM400 VDR, DM200 S-VDR, and DM200 L-VDR, ensuring that there is a product to suit every need.

Product	Purpose	VDR Main Unit	Protective Capsule	Sensor Interface Unit
DM400 VDR	Required for new-built ships over 3000 GT	✓	✓	✓
DM200 S-VDR	Required for retrofit on existing ships over GT	✓	✓	
DM200 L-VDR	Optional for other ships (excl. tugboats/ supply ships)	✓		

Standard configuration



Danelec Marine VDR systems are Wheelmark approved, and meet the requirements of IMO performance and IEC standards.

FACT SHEET

Data Acquisition Unit

VDR S-VDR L-VDR

Dimensions

W: 52 cm
H: 33 cm
D: 33 cm
W: 23 kg

Specifications

AC Power (110V-230V, 50-60Hz, max. 150W)
For data acquisition:
8 inputs for audio
8 inputs for serial data
2 inputs for video data

✓ ✓ ✓



Sensor Interface Unit (Modular / Compact)

VDR S-VDR L-VDR

Dimensions

(Modular / Compact)
W: 52 / 52 cm
H: 33 / 33 cm
D: 33 / 17 cm
W: 23 / 12 kg

Specifications

AC Power (110V-230V, 50-60Hz, max. 75W)
For data acquisition:
8 / 8 inputs for serial data
8 / 8 inputs for analogue data
48 / 64 inputs for digital data

✓ - -



Protective Capsule

VDR S-VDR L-VDR

Dimensions

W: 42 cm
H: 20 cm
D: 24 cm
W: 14 kg

Specifications

Protected fixed capsule, complete with cradle and beacon and supplied with 50 meter cable (terminated in the capsule)
Electrical interface:
Firewire over CAT 5

✓ ✓ -



Bridge Alarm Unit

VDR S-VDR L-VDR

Dimensions

W: 144 mm
H: 144 mm
D: 50 mm

Specifications

Serial RS-422 and power
Connected to comm. port in DPU

✓ ✓ ✓



Indoor Bridge Microphone

VDR S-VDR L-VDR

Dimensions

W: 84 mm
H: 84 mm
D: 84 mm

Specifications

Differential microphone output to audio interface module
Powered from audio interface module
Built-in buzzer for self test

x4 x3 x5



Outdoor Bridge Microphone

VDR S-VDR L-VDR

Dimensions

W: 96 mm
H: 96 mm
D: 84 mm

Specifications

Differential microphone output to audio interface module
Powered from audio interface module
Built-in buzzer for self test
Watertight: IP65

x2 x2 -



Software

VDR S-VDR L-VDR

VDR Web configurator software

✓ ✓ ✓

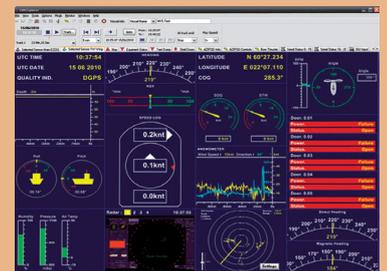
VDR Explorer playback software

✓ ✓ ✓

VDR Explorer playback software

All our products are supplied with the VDR explorer playback software as standard. The software runs from any PC and can provide real-time monitoring and replay recorded data.

The recorded data can be presented in a large variety of both graphical and numerical ways, and is extremely easy and user friendly to operate.



- ▶ Customizable conning page
- ▶ Radar Screen pop-up window
- ▶ Alarm Panel monitoring
- ▶ Export data to Windows applications
- ▶ Password protected
- ▶ Surveyor toolkit
- ▶ Help menu



VDR Explorer meets the IMO Recommendation SN/Circ. 246 and MSC.241(81) mandatory from 1 July 2008 for data output, download and playback software.

Worldwide network

Recognizing the importance of global support, Danelec Marine has a worldwide network of trained and certified distributors and service centres in more than 50 countries, enabling timesaving and cost-effective installations, maintenance and annual performance tests.



Solid operation at sea

Designed to meet the unique challenges of the maritime world, our products offer proven reliability even under extreme conditions.

Safe everywhere, every time

Efficient global service network delivers high quality support wherever your ships go 24/7.

Simple

Intuitive in use and easy to install, Danelec Marine solutions offer cost-effective performance. The simple choice for meeting today's business requirements.



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