



Danelec Newsletter

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Danelec Marine offers full line of conversion kits for VDR retrofits

Dear Danelec Partner,

Today many ships are still equipped with VDRs and S-VDRs that were installed more than 10 years ago to meet the initial IMO carriage requirements. These systems are typically beyond their intended service life, making them often unreliable, while some are not even supported by their original manufacturers any longer, meaning that spare parts are scarcely available and service can be very expensive.

In order to make it easy and less costly for shipowners to upgrade their existing VDR/S-VDR systems to a more efficient product and service solution, Danelec Marine is now offering a comprehensive range of conversion kits, designed to facilitate the replacement of more than 30 different models of VDRs and S-VDRs across all major existing and legacy brands.

By applying a set of newly developed hardware, software and data interface solutions, the cable runs and mounting hardware from the existing system can be retained and thereby the time and cost of replacement substantially reduced.

Danelec Marine's conversion kits consist of the following elements:

- Mechanical hardware parts
- Software tools
- Remote Data Interfaces

Mechanical conversion kits

Mechanical conversion kits are made specifically for the make/model of the existing system and include pre-drilled universal adaptor plates and mounting brackets for all system components (e.g. the VDR main unit, memory capsule and bridge microphones, etc.), making it possible to utilize the original mounting holes and in many cases also reuse existing cabling.



Mechanical conversion kits are available free of charge when placing an order for a Danelec DM100 product as replacement of an existing VDR/S-VDR system.

Conversion kits are currently available for the following makes/models:*

#	P/N	Description
1	1303803	Conversion kit for Broadgate VER3000
2	1303783	Conversion kit for Broadgate VER4000
3	1303830	Conversion kit for Consilium M4
4	1303810	Conversion kit for Consilium S1, F1
5	1303725	Conversion kit for Danelec DM300/DM500
6	1303661	Conversion kit for Furuno VR-3000
7	1303742	Conversion kit for Furuno VR-3000 (for closed bridge wings)
8	1303433	Conversion kit for Furuno VR-5000
9	1303897	Conversion kit for Furuno VR-5000 (for DM100 DAU and SIU)
10	1303892	Conversion kit for Headway HMT-100
11	1303687	Conversion kit for Interschalt IS G4
12	1303637	Conversion kit for Interschalt IS MER VDR
13	1303649	Conversion kit for JRC JCY-1000
14	1303614	Conversion kit for JRC JCY-1700
15	1303754	Conversion kit for JRC JCY-1800
16	1303728	Conversion kit for Kelvin Hughes NDR2002 and Manta Digital
17	1303762	Conversion kit for Maris 2000
18	1303898	Conversion kit for Netwave 4000
19	1303290	Conversion kit for Rutter VDR-100G1
20	1303896	Light conversion kit for Rutter VDR-100G1
21	1303565	Conversion kit for Rutter VDR-100G2 (for DPU)
22	1303573	Conversion kit for Rutter VDR-100 G2/G3 (for DAU)
23	1303618	Conversion kit for Rutter VDR-100G3 (for main unit)
24	1303516	Conversion kit for Rutter VDR-100G3 (for DCU)
25	1303463	Conversion kit for SAM DEBEG 4300
26	1303530	Conversion kit for Samsung SVDR G1
27	1303385	Conversion kit for Samsung SVDR-3000
28	1303390	Conversion kit for Sperry Marine G1
29	1303840	Light conversion kit for Sperry Marine G1
30	1303808	Conversion kit for STI 1000/Kotel VDR
31	1303893	Conversion kit for Totem 1.1 and 1.2
32	1303894	Light conversion kit for Totem 1.1 and 1.2
33	1303895	Conversion kit for Totem 1.3
34	1303558	Conversion kit for Transas 3200 VDR/L3

** Please note that we are continuously working on expanding the below list in order to support replacement of all existing and legacy VDR/S-VDR brands and models. Most kits are available for delivery from stock right away. In case a kit is not readily available, it can normally be made within three weeks.*

Software tools

Danelec Marine have also developed a number of new software tools and features for conversion of old configuration files. The VDR Explorer Configuration Creator (VCC) tool can generate the required new configuration and create tab pages for the VDR Explorer based on data from the old configuration in an Excel sheet and a decoder template. This saves many hours for the service technician which would be used for manually creating the configuration for the system during the installation.

New features in the VDR Explorer include import of tab pages generated via the VCC tool or reused from other vessel configurations and calibration of analog data.

In addition, Danelec Marine can provide pre-sales and after-sales support with interpretation of existing configuration files, decoding data in proprietary formats or in case of complex installation we may even assist in creating a configuration for the new system.

Remote Data Interfaces

Many different VDR architectures exist, from totally centralized (typically first generation system) to totally distributed systems. Danelec VDRs are semi-distributed systems, typically consisting of one main unit (Data Acquisition Unit) and additional optional sensor interface boxes (e.g. Sensor Interface Unit, Remote Video Interface, etc.).

In order to provide a cost effective solution for replacing fully distributed systems or systems with few analog and/or digital inputs, Danelec Marine has developed three types of Remote Data Interface (RDI) units for acquiring data:

- RDI 24-001D (24 interfaces) – for digital data
- RDI 08-001A (8 interfaces) – for analog data
- RDI 08-001D (8 interfaces) – for serial data



The RDIs are small boxes which may be installed close to relevant equipment. The RDIs must be connected to the VDR using Ethernet or IEC 61162-2 (RS-422). RDIs may be daisy chained; i.e. very large installations can be made, utilizing only one or few interfaces on the VDR. As all Danelec products, RDIs are designed with our exclusive SoftWare Advanced Protection (SWAP) technology architecture for fast and easy replacement when servicing the system.

Conversion kits make it feasible for shipowners to standardize VDR installations across their fleet, reducing the expense of installing and maintaining products from different suppliers. At the same time, gaining access to the latest VDR technology also provides a built-in upgrade pathway for shipowners to initiate fleetwide retrieval of data from ship systems and sensors using Danelec's convenient VDR remote access platform.

Our updated VDR price list, including Conversion kits and Remote Data Interfaces, is available for download from the Danelec Marine [Partner Site](#) under the [Sales resources](#) section.

Best regards,
Danelec Marine A/S