RUTTER
VDR-100G2S

Simplified Voyage Data Recorders
From the World's Leading VDR Manufacturer

- Lightweight, modular compact design
- Exclusive range of options
- Designed for fast, efficient and cost-effective installations
- Type approved
- Available with either fixed or float free capsule

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VDR-100G2S

Data Acquisition Unit (DAU)

Data Processing Unit (DPU)

Fixed Final Recording Medium (FRM)

Rutter VDR-100G2S

The VDR-100G2S is designed to be fully compliant with MSC.163(78) as a Simplified VDR (S-VDR) while responding to the operating challenges, price sensitivities and installation constraints expected to emerge as cargo vessel owners and operators move to equip their vessels. Offering the same quality features and reliability that has made Rutter the world leader in VDR technology, the new VDR-100G2S employs a modular distributed "fit anywhere" design that simplifies the installation process reducing cost and out-of-service time.

The VDR-100G2S is supported by an experienced global installation and service network. This ensures availability, rapid installation time and servicing anywhere in the world. A wide range of features offered through the modular design enables the G2S to be configured to cost-effectively meet the current needs of individual ship owners. The modular design also enables the VDR-100G2S to operate as a fully functional system without the Final Recording Medium (FRM) and it is easily upgradeable to MSC.163(78) S-VDR system requirements by addition of the capsule at a future date. Included with every system is our advanced multimedia playback software. This software provides a full bridge simulator-like multiple display capability including a charting system output.

Exclusive Options

The Extended NMEA-0183 Recording Module allows for 30, 60, 90 or more days of continuous NMEA-0183 navigation data archiving of an electronic ship's log.

The Automatic Data Archiving Module provides for long-term data archiving of the full data set.

The Advanced Graphic Analysis Module enables long-term trend analyses, enables simultaneous comparisons among all data parameters and provides for extraction and transfer of the data to spread sheets for further analyses as required.

The Multiple Video Display Capture Option allows the VDR to capture the single required primary radar video and record up to three additional displays.

The Real Time Display Module provides a conning-like real-time display of all recorded navigation data and allows for real-time display of recorded images.

Remote Monitoring and Remote Data Access is available via any standard communications channel, allowing for the monitoring and retrieval of data from anywhere in the world.

The Remote Storage Module is compact and easy to transport. It has a large storage capacity and provides for 30, 45 or 60 days of onboard data archiving. A USB 2.0 port on the unit allows stored data to be reviewed on any modern PC.

- Experienced global installation and service network
- Modular “fit anywhere” design reduces retrofit cost and out-of-service time

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Technical Features

Data Acquisition Unit (DAU)
- provided as required (a distributed solution can be provided as necessary to minimize cabling requirements and to maximize installation efficiency)
- “mount anywhere” solution
- contains Audio, Video and NMEA Data Acquisition Modules (these can be mounted remotely in a distributed solution)
- compact (400mm x 600mm x 150mm)
- 360 degrees for cable entry
- weighs only 17kg

Audio Module
- autonomous audio capture device
- 16 input ports for capturing any combination of microphones and radio communications channels
- additional modules can be added as required
- includes up to 6 microphones as part of a base system

Video Module
- autonomous video capture device
- 4 input ports for capturing images from the primary radar display and up to 3 additional displays
- can accommodate 1600 x 1200 x 24-bit colour images
- refresh rates up to 85Hz
- can be configured for a capture interval as short as 3 seconds

NMEA Data Module
- 6 inputs available in base system and fully expandable to allow any number of inputs
- data is handled on a first-in-first-out basis, assembled and then transmitted to the Data Management Module

Data Processing Unit (DPU)
- self-contained
- can be mounted up to 75m away from Data Acquisition Unit
- houses Data Management Module, Power Supply, Power Control Module and battery back-up system
- compact (350mm x 400mm x 400mm)
- weighs approximately 43kg

Data Management Module
- low-power embedded computer with over 200,000 MTBF
- equipped with advanced temperature protection, vibration isolation coils, input ports for data acquisition and output ports for FRM, playback PC, real-time display, remote monitoring, remote data access and/or optional Remote Storage Module

Power Supply
- equipped with integrated battery charger
- AC input range is 85-264V at 47-63Hz
- DC input range is 19-28V
- input is reverse polarity protected and has replaceable fuse

Power Control Module
- monitors the status of input power
- seamlessly switches essential VDR-100G2S components to battery power in the event of a blackout
- communicates the power system status to the Data Management Module

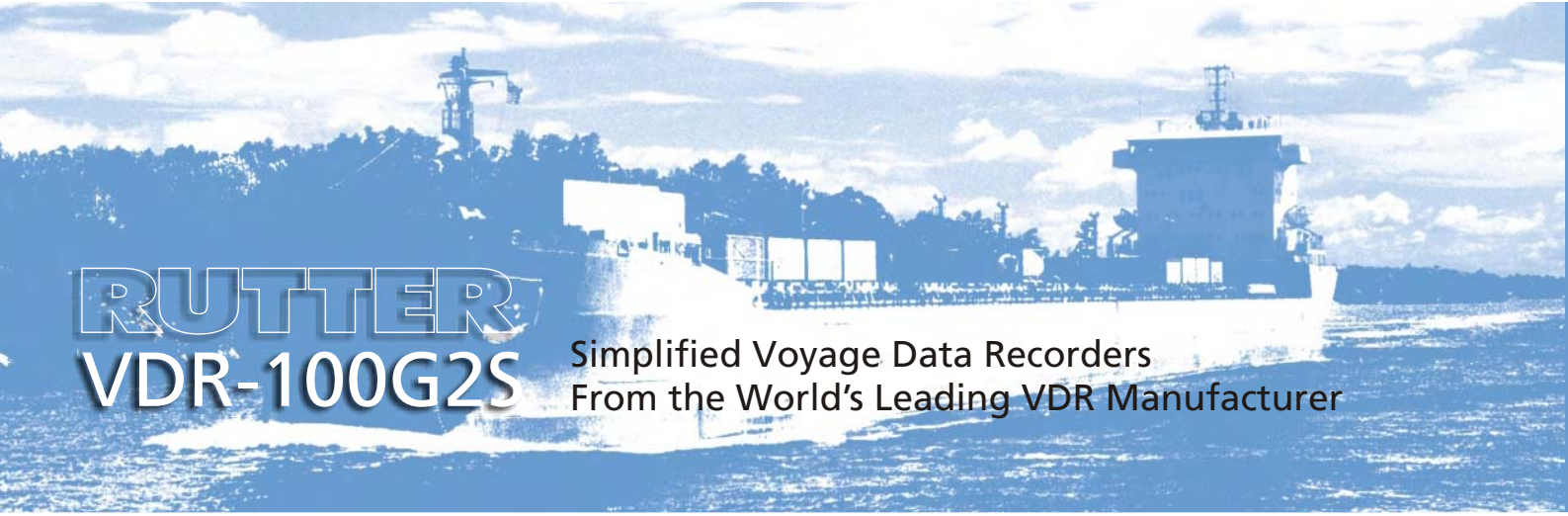
Operation and Alarm Unit
- indicates the system status
- allows users to perform basic system diagnostic checks
- provides a simple menu interface that allows users to secure the recorded data and enable or disable the optional Remote Storage Module
- equipped with:
  - audio/visual alarm indicators
  - 12-button keypad
  - 4 x 20 character display
  - relay output for monitoring in a central bridge alarm system

Download/Playback Software Module
- password-protected (general playback and audio)
- multiple display capability and output to ECDIS or ECS
- recorded AIS data can be displayed graphically on an ECDIS or ECS
- extremely user-friendly with search and fast forward features

Final Recording Medium (FRM)
- fixed or float free capsules are available
- compact lightweight designs
- easy to install
- powered by Power Control Module
- can be mounted 75m away from DPU

AIS Data Module
- records AIS data in accordance with requirements
- required if radar video is not available
- AIS data can be recorded in addition to radar video

Also available as a fully compliant IMO A.861(20) system.



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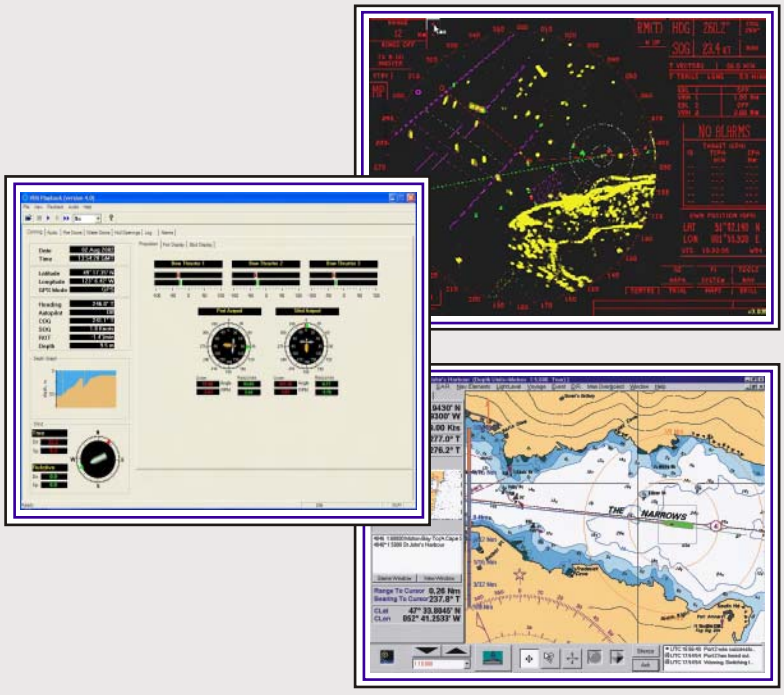
Rutter's family of marine certified interfaces allow for the capture of data sources that go well beyond the minimum requirements in order to meet any customer's special recording needs.



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