

# VoyageMaster™ II S-VDR

Voyage Data Recorder



**Sperry Marine**

# VoyageMaster™ II S-VDR

## S-VDR Highlights:

- **Flexible Modular Design** for full IMO S-VDR configuration
- **Beyond IMO requirement applications**, additional video, audio and signal recording are optional
- **Maritime ruggedness**, designed to withstand the toughest environment
- **Intuitive Playback and Analysis software** offers viewing of navigational, audio, and video data shore-side or on-board
- **“Live” Data monitoring** at optional networked workstations
- **Unique “Save” button** that saves and protects previous 12 hours of navigational data onto hard drive - useful for recording & reviewing incident
- Bridge alarm unit has built-in display and **diagnostic capabilities**
- Space saving design making it one of the **smallest systems on the market**
- Designed for **low cost of ownership**
- **Service Friendly**, maintenance is simplified as most internal components are changeable while in operation minimizing repair time and cost
- Supported by one of the **largest worldwide service networks**
- **One stop provider** for all your installation, servicing and annual performance testing



## IMO S-VDR Carriage Requirement

In December 2004, the International Maritime Organization (IMO) adopted a new regulation that requires all cargo vessels operating in international waters to carry a simplified voyage recorder system (S-VDR).

The rules are as follows for existing cargo vessels constructed before 1 July 2002:

- Cargo vessels greater than 20,000 gross tons are required to have an S-VDR installed on their first scheduled dry-docking after 1 July 2006 but not later than 1 July 2009.
- Cargo vessels of 3,000 gross tons and upwards but less than 20,000 gross tons are required to have an S-VDR installed at their first scheduled dry-docking after 1 July 2007 but not later than 1 July 2010.

## Sperry Marine-Your Preferred S-VDR Solution Provider

Your choice of supplier is just as important as your choice of S-VDR.

With thousands of navigation systems delivered and installed annually Sperry Marine is an expert in providing high value navigation solu-

tions. With over 100 years experience in design, development, installation, servicing and support, Sperry Marine has become a world leader in the marine electronics industry.

## VoyageMaster II S-VDR

The new Sperry Marine VoyageMaster II is a compact system that utilizes the latest technology to provide you with the best value S-VDR on the market. The fully type approved system has a flexible modular design that not only conforms to IMO requirements but provides additional video, audio, and signal capabilities. In addition, we have designed in technology without losing sight of low life-cycle costs or the high quality standards demanded of Sperry Marine products.

## Mandatory S-VDR Signal List:

- Data & Time (GPS)
- Latitude & Longitude (GPS)
- Speed (Speed log)
- Heading (Gyro)
- Bridge & VHF Audio
- Main Radar (substitute AIS if Radar is impossible to record)

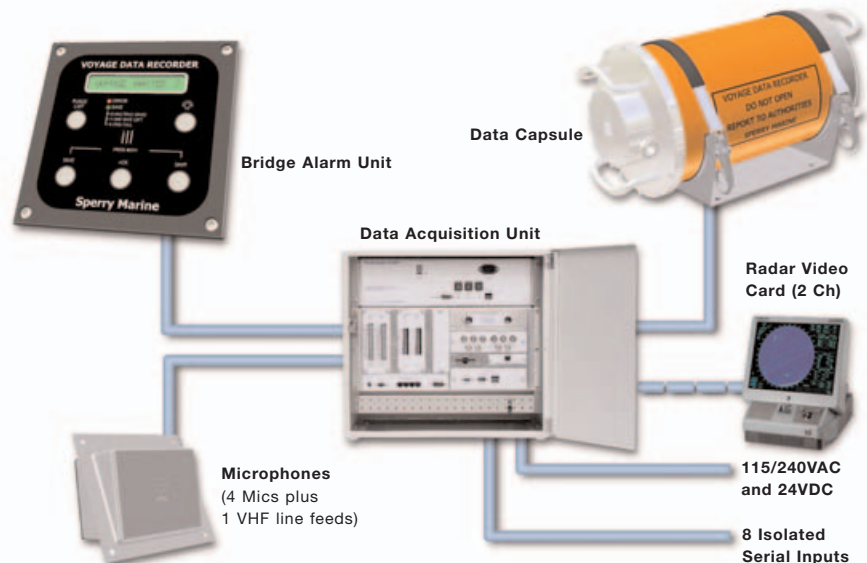
## If NMEA Serial output is available (IEC 61162):

- Depth beneath the keel

## VoyageMaster II S-VDR Standard Configuration



**Playback Screen**



(IMAGES NOT TO SCALE)

- All IMO mandatory bridge alarms
- Rudder order & response
- Engine order & response
- Hull opening status
- Watertight & fire doors
- Wind speed & direction
- Hull stress monitor

### Standard Configuration

The basic S-VDR system consists of the following:

#### Data Acquisition Unit (DAU):

- 1 VHF Input
- 2 Radar Inputs
- 8 Serial Inputs (NMEA)
- Removable Hard Drive
- UPS (2 Hour)
- Lockable, wall mounted

#### 4 Microphone Units

#### Protected Data Capsule (12 Hour)

#### Mount for Capsule with 50m cable

#### Bridge Alarm Unit

#### Playback Software

#### Manual

#### Optional:

- 24 Hour Protected Data Capsule
- Remote Video Unit (2 add.Channel)
- Bridge and water-tight microphones
- Audio PCB (4 Add. Mics, 10 max)

- Serial Modules (4 or 8 inputs)
- Backup Removable HD

### Playback Software

The VoyageMaster II S-VDR provides a wealth of data for crew, engineers, and the fleet managers.

**Real-time analysis** – Sperry Marine has developed playback software that provides the operator with real-time monitoring and analysis. Designed to be intuitive the software takes only minutes to be mastered.

**Customization capability** – The operator has the flexibility to customize the conning information pages to user's preference.

**Training tool** – The playback function is an excellent tool for crew training. It can be used to set up scenarios showing recordings of best practice navigation.

**Data Capture** – Data can be extracted from the S-VDR system via PC's LAN line or from the removable hard drive. This data can easily be imported into a Windows™ program for analysis both onboard and onshore.

**Additional security** – Limited data access can be maintained through the ability to set passwords.

### Type Approval

VoyageMaster II fully complies with the following type approval requirements:  
 MSC.163 (78)  
 IEC 61996  
 IEC 60945

### Annual Certification

SOLAS V Regulation 18 requires all S-VDR units to have an annual performance test. Sperry Marine has been certified by ABS, Lloyds and DnV to carry out the annual performance testing and recertification.

### Training

Sperry Marine supports the VoyageMaster II S-VDR and all of its products with certified maintenance, support and operator training classes. Students may attend training in Copenhagen, Denmark; New Malden, UK; Hamburg, Germany; or Charlottesville, USA. Alternatively, on-board training may be arranged.

### Additional Information

A downloadable PDF guide on S-VDRs and the VoyageMaster II S-VDR product can be found by going to:



**Sperry Marine**

www.sperrymarine.northropgrumman.com

For more information, please contact:

**AMERICAS**

**Charlottesville, VA USA**

Tel: +1 434-974-2000

Fax: +1 434-974-2259

**ASIA**

**China, Shanghai**

Tel: +86-21-5836-9978

Fax: +86-21-5836-9979

**Hong Kong, Sheung Wan**

Tel: +852-2581-9122

Fax: +852-2581-9967

**Japan, Tokyo**

Ph: +81 (0)-3-3863-7401

Fax: +81 (0)-3-3863-7455

**Singapore**

Tel: +65-6274-3332

Fax: +65-6271-3339

**South Korea, Busan**

Tel: +82-51-247-7455

Fax: +82-51-247-7454

**Taiwan, Kaohsiung**

Tel: +886-7-331-7786

Fax: +886-7-331-7924

**CANADA**

**Nova Scotia, Halifax**

Tel: +1 902-468-9479

Fax: +1 902-468-9480

**EUROPE**

**Belgium, Antwerp**

Tel: +32-3-233-14-33

Fax: +32-3-225-05-53

**Denmark, Copenhagen**

Tel: +45-77-33-66-33

Fax: +45-77-33-66-11

**Germany, Hamburg**

Tel: +49 (0)40 299 00-0

Fax: +49 (0)40 299 00-146

**Holland, Vlaardingen**

Tel: +31(0)-10-4451600

Fax: +31(0)-10-4345015

**Norway, Bergen**

Tel: +47-55-94-94-94

Fax: +47-55-34-52-27

**United Kingdom, New Malden**

Tel: +44(0)20 8329 2000

Fax: +44(0)20 8329 2415

**S-VDR System Components**

**Data Capsule**



Width: 500mm	19.7"
Height: 260mm	10.2"
Depth: 300mm	11.8"
Weight: 25kg	55 lbs

**Data Acquisition Unit**



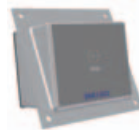
Width: 475mm	18.7"
Height: 430mm	16.9"
Depth: 320mm	12.6"
Weight: 27kg	59 lbs

**Bridge Alarm Unit**



Width: 144mm	5.7"
Height: 144mm	5.7"
Depth: 50mm	2"
Cut-out: 100 x 100mm	3.9 x 3.9"

**Water-tight Microphone**



Width: 96mm	3.8"
Height: 96mm	3.8"
Depth: 84mm Max	3.3"

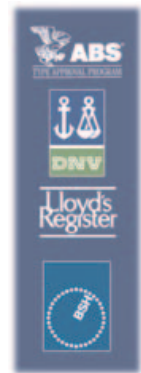
**Bridge Microphone**



Width: 84mm	3.3"
Height: 84mm	3.3"
Depth: 56mm	2.2"

**Global Support Network**

Sperry Marine maintains a globally supported service organization with authorized service at more than 250 locations worldwide.



Sperry Marine, with worldwide headquarters in Charlottesville, VA, and major engineering and support offices in Melville, NY, New Malden, England, and Hamburg, Germany, is part of the Northrop Grumman **Electronic Systems** sector.

This brochure, including the information contained herein, is the Intellectual Property of Northrop Grumman Corporation and as such may not be copied or reproduced without the written permission of Northrop Grumman. All specifications herein were in effect on the date of this publication. However, any technical data should not be solely relied upon and should be verified at time of order. Furthermore, equipment may vary from that specified due to the Sperry Marine policy of continual product improvement.