VoyageMaster™ II VDR
Voyage Data Recorder

Sperry Marine
VoyageMaster II VDR

VDR Highlights:

- **Mission Critical Design** architecture for continuous operation
- **Service Friendly**, maintenance, if necessary, is simplified as most internal components are hot-swappable, minimizing repair time and cost
- **Beyond IMO requirement applications**, additional video, audio and signal recording are possible
- **Maritime ruggedness**, designed to withstand the toughest environment
- **Designed for low lifecycle costs**
- **Intuitive Playback and Analysis software** offers viewing of navigational, audio, and video data in the office or on-board
- **“Live” Data** monitoring at optional workstations
- **“Save” feature** that saves and protects previous 12 hours of navigational data onto hard drive - useful for recording & reviewing incident
- **Space saving design making it one of the smallest systems on the market**
- **Supported by one of the largest worldwide service networks**
- **One stop provider** for all your installation, servicing and annual performance testing

**IMO Carriage Requirement**

Voyage Data Recorders (VDRs) are now mandatory equipment on passenger and Ro / Ro vessels engaged in passages within the EU and international waters. In addition, all new vessels over 3000 GRT are now required to fit approved VDR units.

**Sperry Marine - Your Preferred VDR Solution Provider**

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

With thousands of navigation electronics delivered and installed annually Sperry Marine is an expert in providing high value navigation solutions. 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 VDR**

Sperry Marine’s new VoyageMaster II is a compact system that utilizes the latest technology to provide you with the best value VDR on the market. The fully type approved system conforms to IMO requirements. 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.

**Playback Software**

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

- **Real-time analysis** – Playback software 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 VDR system via PC’s LAN line or from the Removable Memory Module. This data can easily be imported into a Windows™ program for analysis both onboard and on shore.
- **Additional security** – Limited data access can be maintained through the ability to set passwords.
Standard Configuration

The basic VDR package consists of the following:

**Data Acquisition Unit (DAU):**
- 3 VHF Inputs
- 2 Radar Inputs
- Removable Hard Drive
- UPS (2 Hour)
- Lockable, wall mounted

**6 Microphones**

**Protected Data Capsule (12 Hour)**

**Mount for Capsule with 50m cable**

**Bridge Alarm Unit**

**Sensor Interface Unit**
- 16 Serial (NMEA)
- 16 Analogue
- 64 Digital

**Playback Software**

**Manuals**

**Optional:**
- Remote Video Unit (2 add. Channels)
- Bridge and water-tight microphones
- Backup Removable HD
- Sensor Interface Unit (for additional inputs)

Mandatory Signal List:
- Data & Time
- Latitude & Longitude
- Speed
- Heading
- Bridge & VHF Audio
- Radars
- Depth beneath the keel
- All IMO mandatory alarms
- Rudder order & response
- Engine order & response
- Hull opening status
- Watertight & fire doors
- Wind speed & direction
- Hull stress monitor

Type Approval

VoyageMaster II fully complies with the following type approval requirements:
- A861 (20)
- IEC 61996
- IEC 60945

Annual Certification

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

Training

Sperry Marine supports the VoyageMaster II 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

Please go to sperry Marine’s website for additional information regarding Voyage Data Recorders and a downloadable VDR Guide.

www.sperrymarine.northropgrumman.com
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
P: +81 (0) 3-3863-7401
F: +81 (0) 3-3863-7455
Singapore
Tel: +65 6274-3332
Fax: +65 6271-5399
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: +32-3-243-14-33
Fax: +32-3-225-05-53
Denmark, Copenhagen
Tel: +45-77-33-60-33
Fax: +45-77-33-60-11
Germany, Hamburg
Tel: +49 (0)40 299 00-0
Fax: +49 (0)40 299 00-146
Holland, Waardingen
Tel: +31(0) 10-4951000
Fax: +31(0) 10-4959515
Norway, Bergen
Tel: +47 55 94-94-94
Fax: +47 55 34-52-27

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

VDR System Components

Data Capsule
- Width: 500mm 19.7"
- Height: 260mm 10.2"
- Depth: 300mm 11.8"
- Weight: 55 lbs

Data Acquisition Unit
- Width: 475mm 18.7"
- Height: 430mm 16.9"
- Depth: 320mm 12.6"
- Weight: 59 lbs

Sensor Interface Unit
- Width: 525mm 20.7"
- Height: 342mm 13.5"
- Depth: 332mm 13.1"
- Weight: 20kg 44 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"