

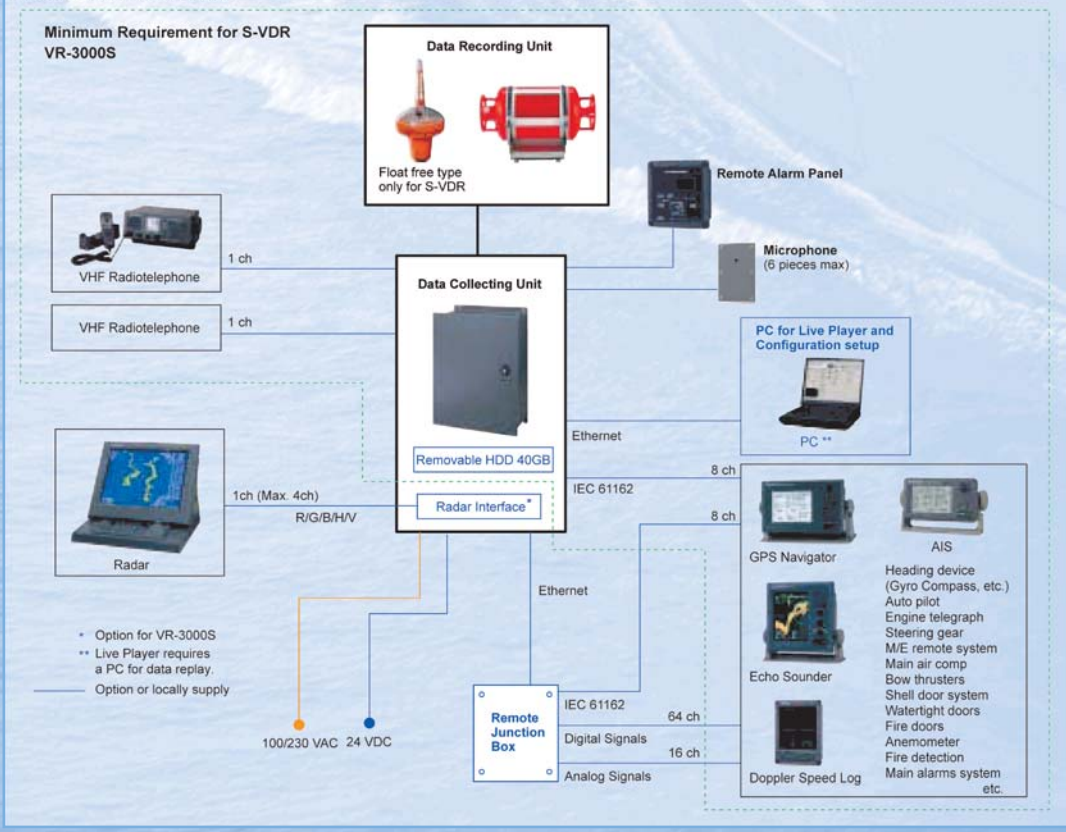
FURUNO

Voyage Data Recorder

Simplified Voyage Data Recorder



Requirement for VDR VR-3000



Marineelektronik
Netzwerktechnik
Computersysteme
Weltweiter Service

Marine Electronics
Network Technology
Computer Systems
Worldwide Service



Voyage Data Recorder / Simplified Voyage Data Recorder

Records all sort of crucial data to identify the cause of maritime casualty as well as to contribute to the future prevention of the catastrophe of any kind

The VR-3000/S is a Voyage Data Recorder/Simplified Voyage Data Recorder, which fully complies with IMO A861(20) and IEC 61996 and IEC 60945, and IMO MSC. 163(78) and IEC 61996-1/2 and IEC 60945, respectively. The purposes of the VDR and SVDR are to assist investigators in identifying the causes of maritime casualty as well as to use the data for future reference to further incident prevention.

The VDR is intended for all the passenger ships as well as for newly constructed cargo ships of 3,000 gross tonnage and upwards. The S-VDR is for existing cargo vessels of the same category with a phase-in requirement schedule for those of 20,000 gross tonnage and upwards first, to be followed by others of 3,000 gross tonnage and upwards. The S-VDR is not required to store the same level of detailed data as the VDR but should maintain a store, in a secure and retrievable form, of information concerning the position, movement, physical status, command and control of a ship over the period leading up to and following an incident.

The VR-3000/S consists of Data Collecting Unit (DCU), Data Recording Unit (DRU), Remote Alarm Panel and up to six microphones. Incorporating interface modules, a powerful processor and status monitor into a compact container, the DCU collects voyage data. The DCU processes the data and events in the order of occurrence, while old data is overwritten by the latest data for storage in the DRU. The data is stored for at least 12 hours. In case of power supply failure, the reserve battery enables the VDR/S-VDR to record the bridge audio for two additional hours.

The data recorded in the DRU can be replayed with the optional playback software application, Liveplayer PRO for incident investigation as well as for educational briefing purposes. The DRU is contained in a protective capsule to ensure survival and recovery of the recorded data following an incident. The incorporated acoustic pinger helps investigators locate the capsule underwater. The DRU in the float-free capsule with a locating device is also available for the S-VDR, which floats at the surface of water.

- **VDR:** Complies with IMO A861(20) and IEC 61996 and IEC 60945
- **S-VDR:** Complies with IMO MSC.163(78) and IEC 61996-1/2 and IEC 60945
- **Space-saving installation with a compact Data Collecting Unit (DCU)**
- **Data storing for 12 hours both in the DCU and Data Recording Unit (DRU)**
- **DRU for the VR-3000S is selectable either a fixed protection capsule or a float-free capsule**
- **Internal frame grabber board to record Radar/ECDIS images***
- **Remote Junction Box for recording serial data, contact signals and analog data***
- **Optional Live Player software allows for real-time data monitoring as well as data playback with a PC at a later date**

**Standard for VR-3000 and optional for VR-3000S*

Carriage Requirement

	Ships on International voyages	Mandatory Installation
S-VDR	Existing cargo ships of 20,000 GT and upward	At the first scheduled dry-docking after 1 July 2006 but not later than 1 July 2009
	Existing cargo ships of 3,000 GT and upward but less than 20,000 GT	At the first scheduled dry-docking after 1 July 2007 but not later than 1 July 2010
VDR	All passenger ships as well as newly built cargo ships of 3,000 GT and upwards.	

EQUIPMENT LIST

VDR VR-3000

Standard

- | | |
|---|--------|
| 1. Data Collecting Unit VR-3010 (built in removable HDD) | 1 unit |
| 2. Data Recording Unit VR-5020 (with 30 m cable and cradle) | 1 unit |
| 3. Remote Alarm Panel VR-3016 | 1 unit |
| 4. Remote Junction Box IF-8530 | 1 unit |
| 5. Radar Interface Board | 1 unit |
| 6. Microphone VR-5011 | 6 sets |
| 7. Installation Materials and Spare Parts | |

Optional

- | | |
|---|--------|
| 1. Removable HDD for DCU (40 GB) | |
| 2. PC Software Kit LivePlayer PRO | |
| 3. Water-resistant Box for Microphone VR-5012 | 6 sets |
| 4. VHF Interface IF-5200 | |

Specifications subject to change without notice.

S-VDR VR-3000S

Standard

- | | |
|--|--------|
| 1. Data Collecting Unit VR-3010 (built in removable HDD) | 1 unit |
| 2. Data Recording Unit VR-5020/VR-3030* (with 30 m cable and cradle) | 1 unit |
| 3. Remote Alarm Panel VR-3016 | 1 unit |
| 4. Microphone VR-5011 | 6 sets |
| 5. Installation Materials and Spare Parts | |
- * Float-free capsule selectable*

Optional

- | | |
|---|--------|
| 1. Removable HDD for DCU (40 GB) | |
| 2. PC Software Kit LivePlayer PRO | |
| 3. Remote Junction Box IF-8530 | 1 unit |
| 4. Radar Interface Board | 1 unit |
| 5. Water-resistant Box for Microphone VR-5012 | 6 sets |
| 6. VHF Interface IF-5200 | |