

**VDR**  
Voyage Data Recorder

**S-VDR**  
Simplified Voyage Data Recorder



| Alert List |                  | Serial           |
|------------|------------------|------------------|
| Alert ID   | Alert Name       |                  |
| 412234     | GPS No Connectio | \$GPGSA, 30<DD>< |
| 412218     | MIC Test Failure | \$GPGGA, 000*7   |
| 412301     | No.01 Serial No  |                  |

Models:  
**VR-7000/7000S**

# ***Records all crucial data to help identify the cause of marine accidents, as well as contribute to the prevention of future accidents***

A Voyage Data Recorder (VDR) and Simplified Voyage Data Recorder (S-VDR) are similar to the black boxes carried on aircraft. The VDR/SVDR aids investigators in securing evidence by reviewing procedures and instructions in the moments before an accident. The VDR/SVDR collects data from all interfaced sensors on board the vessel, storing it in an external Data Recording Unit (DRU). The system comes with two tamperproof DRU units, one fixed and one float-free. They are designed to withstand the extreme impact, pressure, shock and heat, which may happen during an incident. When the DRU is retrieved, the stored data can be replayed by authorities to investigate the cause of the accident.



► **Complies with the IMO performance standards for VDR and S-VDR**

- Data storing for 48 hours both in fixed and float-free recording medium
  - Data storing for 30 days/720 hours in SSD in the Data Collecting Unit
  - No. 1, 2 Radar and main ECDIS display images can be stored
- \* Up to 5 display images from FURUNO Radar FAR-3000/FCR-2xx9 series or FURUNO ECDIS FMD-3200/3300 can be stored simultaneously through Ethernet without optional SSD.  
\* Radar and ECDIS images can be recorded at 15-second intervals.

► **Easy to integrate with IBS Network**

\* Radar and ECDIS that utilizes LAN interface based on IEC 61162-450 can be connected through Ethernet.

► **Video LAN converter can convert the Radar signal (DVI or RGB) into Ethernet**

\* Necessary when FURUNO Radar FAR-15x8/FAR- 22x8, 23x8, ECDIS FMD-3100, 3200/3300 or the products of third-party manufacturers are connected to VR-7000/7000S.

► **Optional sensor adapter gathers all the serial/analog/digital sensor data and collectively feeds it to DCU**

Multiple sensor adapters can be interfaced depending upon the number of sensors to be interfaced.

► **“Live Player V5” allows monitoring and playback of collected data on a PC. In addition, remote replay and remote extraction via satellite connection available.**

► **Extracted data can be saved onto a USB flash memory**

► **Global customer support and services with FURUNO worldwide service network**

## **Simplified Voyage Data Recorder VR-7000S**

- Complies with the IMO performance standards for S-VDR, MSC 163(78)
- Applied to S-VDR carriage requirement for existing cargo ships over 3,000GT

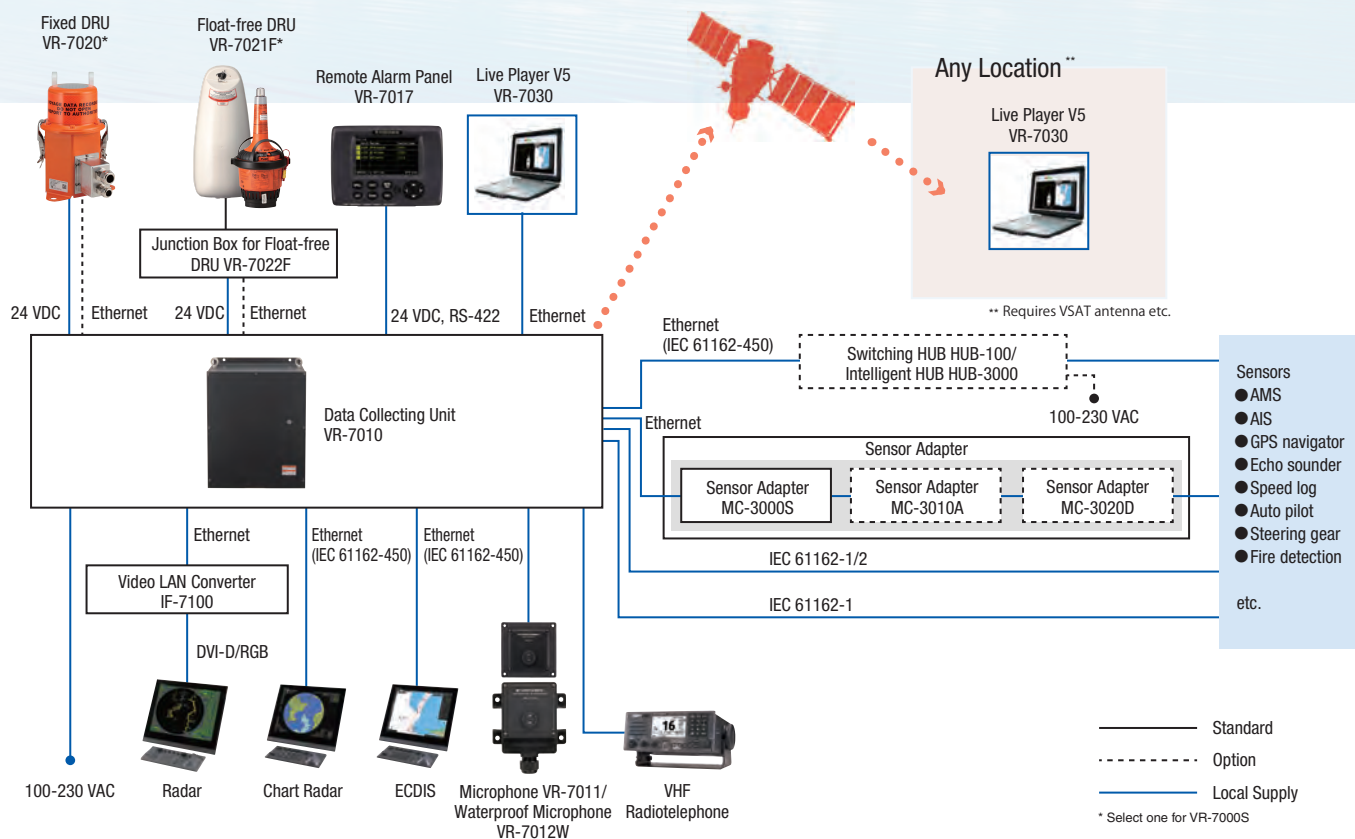
- **Selectable DRU: fixed DRU or float-free DRU**

- **Save function**

If marine incidents occur, record the data, which are recorded to the capsule, to the safe storage area for a long term recording by this function.

## Easy to input the sensor data and review stored data

The onboard sensors can be integrated and interfaced to the VR-7000/7000S thanks to Video LAN converter and sensor adapters. Also, the collected data can be replayed with the PC software or extracted onto a USB flash memory for later analysis.



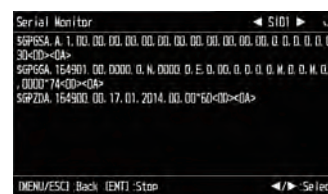
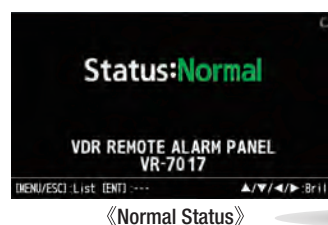
## Live Player V5

This software extracts and displays the data recorded in the Data Recording Unit, in real time, on the networked PC screen. In addition, The data can be extracted and displayed remotely on the PC screen anywhere via satellite connection. Also, the data can be replayed for a more thorough data analysis at a later date.

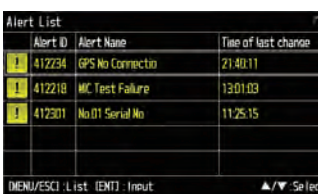


## Remote Alarm Panel

At-a-glance recognition of VDR status with minimal operation.



«System health checking»  
(serial/analog/digital signals)



«Alert List»

## SPECIFICATIONS

| Product Name                                           |                              |                                                                              |                          |
|--------------------------------------------------------|------------------------------|------------------------------------------------------------------------------|--------------------------|
| VOYAGE DATA RECORDER / SIMPLIFIED VOYAGE DATA RECORDER |                              |                                                                              |                          |
| Data                                                   | Recording Period             | 720 hours                                                                    |                          |
| Collecting Unit (DCU)                                  | Interface                    | Ethernet (IEC 61162-450)                                                     | 13 ports (1 port for PC) |
|                                                        | Serial (IEC 61162-1/2) Input | 2 ports (when interfaced with the MC-3000S, 4 additional ports can be added) |                          |
|                                                        |                              | Serial (IEC 61162-1) Input                                                   |                          |
|                                                        | Digital Input                | 6 ports (when interfaced with the MC-3000S, 4 additional ports can be added) |                          |
|                                                        |                              | Option (when interfaced with the MC-3020D, 8 ports can be added)             |                          |
|                                                        | Analog Input                 | Option (when interfaced with the MC-3010A, 3 ports can be added)             |                          |
|                                                        |                              | Bridge audio                                                                 |                          |
|                                                        | VHF audio                    | 2 ports                                                                      |                          |
|                                                        | Remote Alarm Panel           | 1 ports                                                                      |                          |
|                                                        | 24 VDC for Fixed DRU         | 1 ports                                                                      |                          |
| Fixed Data Recording Unit (Fixed DRU)*                 | 24 VDC for Float-free DRU    | 1 ports                                                                      |                          |
|                                                        | 24 VDC for Sensor Adapter    | 1 ports                                                                      |                          |
| Float-free Data Recording Unit (Float-free DRU)*       | Memory                       | 32 GB                                                                        |                          |
|                                                        | Recording Period             | 48 hours                                                                     |                          |
| Remote Alarm Panel                                     | Memory                       | 64 GB                                                                        |                          |
|                                                        | Recording Period             | 48 hours                                                                     |                          |
| Video LAN Converter                                    | Display                      | 4.3" color LCD                                                               |                          |
|                                                        | Interface                    | DVI-D/RGB: 2 ports                                                           |                          |
| Sensor Adapter (Serial)                                | MC-3000S                     | IEC 61162-1/2: 4 ports                                                       |                          |
|                                                        |                              | IEC 61162-1: 4 ports                                                         |                          |
| Sensor Adapter (Analog)                                | MC-3010A (option)            | Analog Input: 3 ports                                                        |                          |
|                                                        |                              | Digital Input: 8 ports                                                       |                          |
| Sensor Adapter (Digital)                               | MC-3020D (option)            | Ethernet: 8 ports                                                            |                          |
|                                                        |                              | Ethernet: 8 ports                                                            |                          |
| Intelligent Hub                                        | HUB-3000                     | Ethernet: 8 ports                                                            |                          |
|                                                        |                              | Ethernet: 8 ports                                                            |                          |
| Switching Hub                                          | HUB-100                      | Ethernet: 8 ports                                                            |                          |
|                                                        |                              | Ethernet: 8 ports                                                            |                          |

\* Select one for VR-7000S

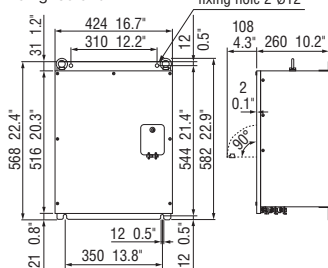
## POWER SUPPLY

|                     |                                           |
|---------------------|-------------------------------------------|
| DCU                 | 100-230 VAC: 1.6-0.7 A, 1 phase, 50-60 Hz |
| Sensor Adapter      | 24 VDC: 1.4 A max (11units), ed from DCU  |
| Video LAN Converter | 24 VDC: 0.3 A                             |

## Data Collecting Unit

### VR-7010

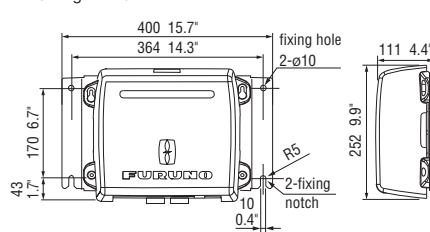
29 kg 63.9 lb



## Video LAN Converter

### IF-7100

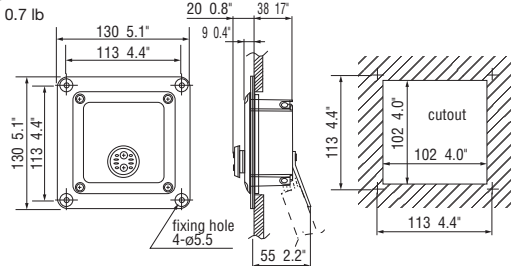
3.2 kg 7.1 lb



## Microphone

### VR-7011

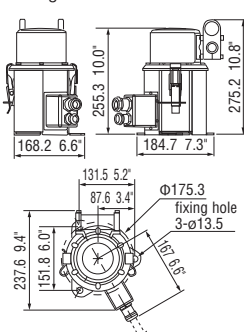
0.3 kg 0.7 lb



## Fixed Data Recording Unit

### VR-7020

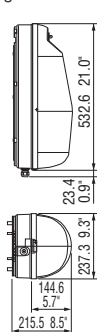
7.3 kg 16.0 lb



## Float-free Data Recording Unit

### VR-7021F

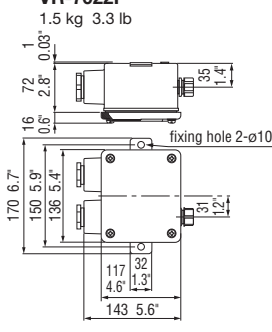
4.8 kg 10.6 lb



## Junction Box for Float-free Data Recording Unit

### VR-7022F

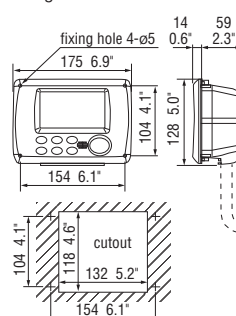
1.5 kg 3.3 lb



## Remote Alarm Panel

### VR-7017

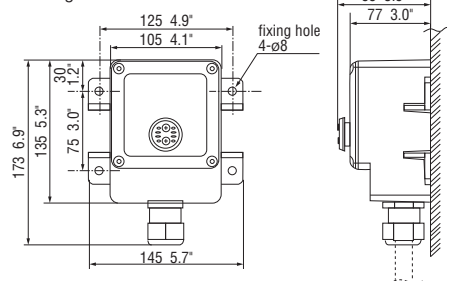
0.64 kg 1.4 lb



## Waterproof Microphone

### VR-7012W

0.6 kg 1.3 lb



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