

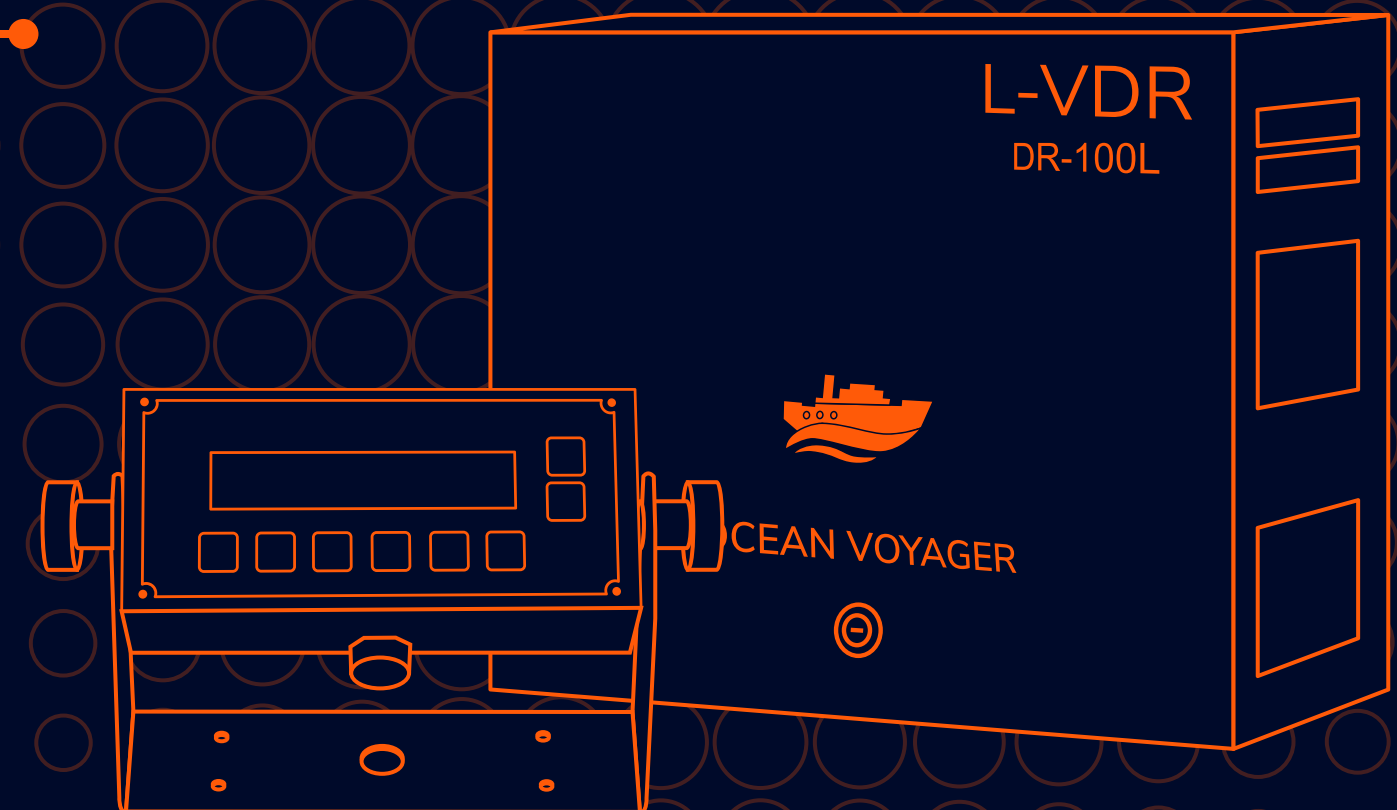


OCEAN VOYAGER

DR-100L

Light Voyage Data Recorder

DR-100L being a non-mandatory option while others adhere to regulatory requirements.



Easy to
Install and
Maintain



Flexible
Configuration
and Software



Solidity
Strength
Stability



Affordable
Hardware
Prices



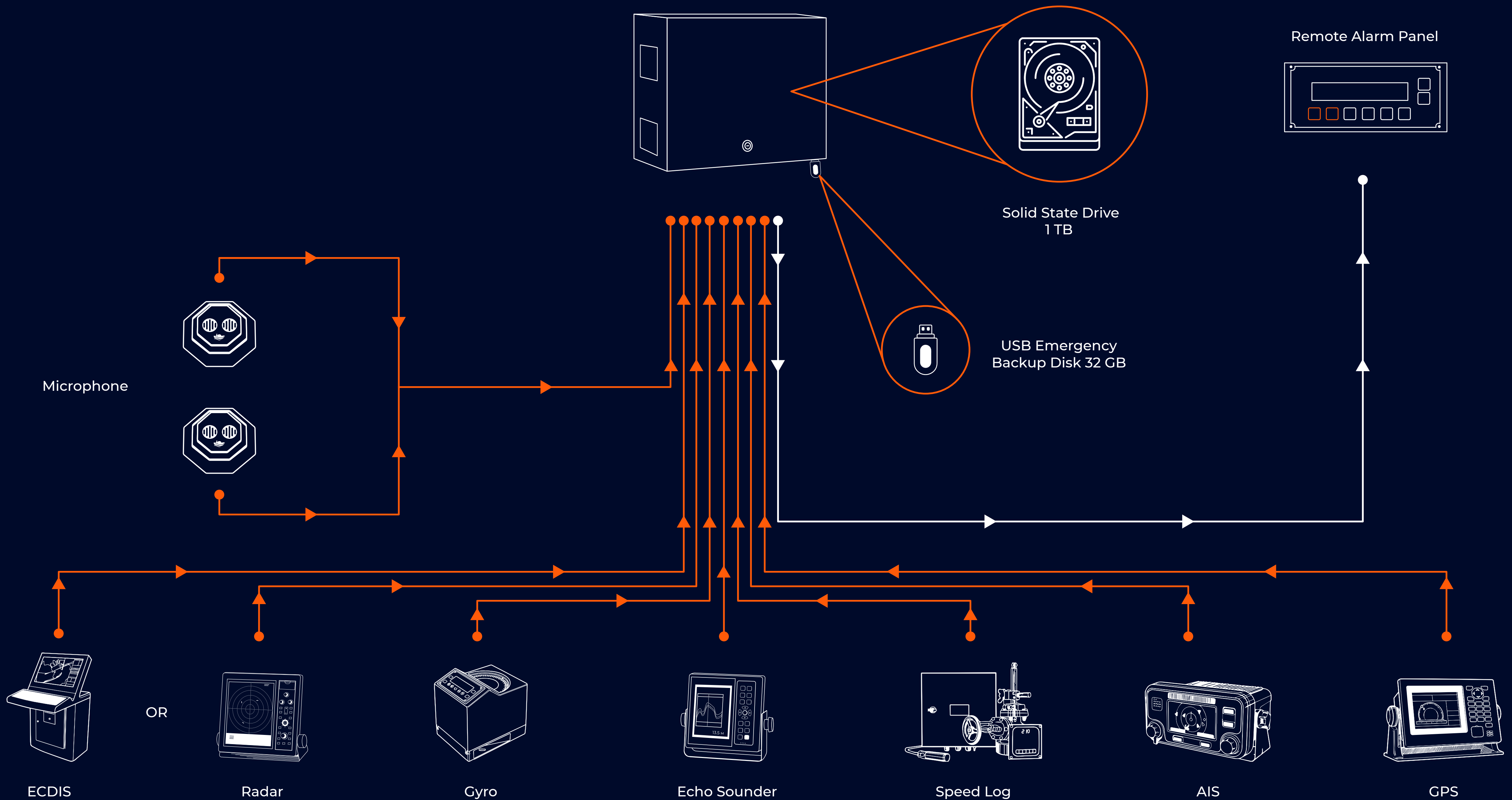
High
Quality
Service



Compliance
With latest
Standards

CONFIGURATION

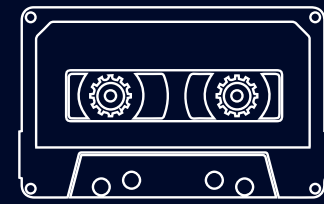
Data Acquisition Unit



COMPLIANCE WITH THE LATEST STANDARDS



Recording up to 4 hours
in USB Emergency
Backup Disk



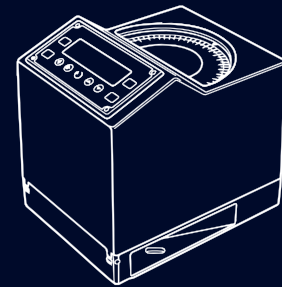
Recording up to 50
days in Data
Acquisition Unit



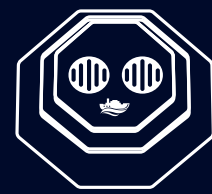
Image recording of up to 1
Channel Radar / ECDIS via
UDP



Live Player software allows for
real-time data monitoring as
well as data playback with a PC
at later time



Recording of AIS, GPS,
Echo Sounder, Gyro
and Speed Log NMEA
data



Audio recording up to 6 ch
of Bridge Audio



Audio recording up
to 2 ch of VHF Audio

TECHNICAL SPECIFICATIONS

Light Voyage Data Recorder

Model: DR-100L

Standart units

| | |
|-------------------------|---|
| Remote Alarm Panel | Monochrome Display, Built-in Speaker, Push Button, Illumination |
| Sensor Data | Date & Time, Ship's Position, Speed, Heading, Depth, AIS |
| Audio Data | Microphone, VHF |
| Image Data | Radar / ECDIS |
| Recording Time | Solid State Drive: Up to 50 Days Data Recording, 1 TB Capacity |
| | USB Emergency Backup Disk: Up to 4 Hours Data Recording, 32 GB Capacity |
| Data Recording Interval | Sensor Data: Depends on the Input from Sensor (Normally 1 Seconds) |
| | Audio Data: Continuous |
| | Image Data: 1 image / 15 seconds |
| Serial Port | IEC61162-1 (38400bps) IEC61162-2 (4800bps) |
| LAN | IEC61162-450 |
| Microphone Audio Input | 6 Ports |
| VHF Audio Input | 2 Ports |
| Radar / ECDIS Input | UDP or VGA / DVI / HDMI / YPbPr |

| | | | |
|------------------------|--------|-------|-----------|
| Data Acquisition Unit | DR-103 | 1 Pcs | Protected |
| Remote Alarm Panel | DR-106 | 1 Pcs | Protected |
| Indoor Microphone Unit | DR-101 | 2 Pcs | Protected |

Additional units

| | | | |
|-------------------------|-----------|-------|-----------|
| Video Interface Unit | RMSD-1105 | 1 Pcs | Protected |
| Outdoor Microphone Unit | DR-101 | 2 Pcs | Exposed |
| Resizable Memory Disk | - | - | - |

Supply voltage

| | |
|-------------------------|-----------------------------|
| Data Acquisition Unit | AC 110 - 240V, 10A, 50/60Hz |
| Remote Alarm Panel | DC 24V |
| Microphone Units | DC 24V |
| Ship's Emergency Supply | DC 24V |

APPLICATION

With a user-friendly interface, VDR system is designed for ease of use, ensuring that operators can navigate and utilize it effectively.

Real Time Data

The interface shows a 'Source' selection screen with options for AIS COM1, Distribution Panel COM21, Gyo COM23, Echo Sounder COM3, Speed Log COM4, Gps COM5, and Remote Alarm Panel COM6. Below this is a 'Realtime Logs' table with columns for Name, Port, Sentence, and Timestamp.

| Name | Port | Sentence | Timestamp |
|--------------------|-------|-------------------------------|-------------------------|
| Distribution Panel | COM21 | SPDL,1,27.44,1,3050,1,2070*18 | 2021-08-24 07:45:48.831 |
| Distribution Panel | COM21 | SPDL,1,27.44,1,3050,1,2070*1D | 2021-08-24 07:45:47.825 |
| Distribution Panel | COM21 | SPDL,1,27.44,1,3050,1,2070*18 | 2021-08-24 07:45:48.835 |
| Distribution Panel | COM21 | SPDL,1,27.44,1,3050,1,2070*18 | 2021-08-24 07:45:48.830 |
| Distribution Panel | COM21 | SPDL,1,27.38,1,3050,1,2070*13 | 2021-08-24 07:45:44.823 |
| Distribution Panel | COM21 | SPDL,1,27.44,1,3050,1,2070*18 | 2021-08-24 07:45:43.833 |

Player

The VDR Player interface features a central radar display (XBAND_RADAR) with a scale of 0.5. Surrounding the radar are several data panels: UTC (Date: 2023-05-27, Time: 11:27:15), NAVIGATION (Latitude: 30°09.530'N, Longitude: 122°00.595'E, COG: 292.1°, SOG: 0 kts), AIS (MMSI: 412047650, 413343140, 412115880), GPS (Altitude: 37 m, Quality: DGPS, HDOP: 1, SAT: 8), DEPTH (Water Depth, Offset), HEADING (True Heading: 115.1°), and SYSTEM (Alarms: 1385). A playback progress bar at the bottom shows the current position at 01:02:17 / 02:01:00.

Configuration

The VDR Config interface displays settings for various equipment. Each item has an 'Active' status indicator and 'TEST' and 'EDIT' buttons. The items include Bridge 3 (Channel: Channel 3, Source: Indoor), Bridge 4 (Channel: Channel 4, Source: Indoor), Port Bridge Wing (Channel: Channel 5, Source: Outdoor), Starboard Bridge Wing (Channel: Channel 6, Source: Outdoor), Main VHF (Channel: Channel 7, Source: External), and Sub VHF (Channel: Channel 8, Source: External).

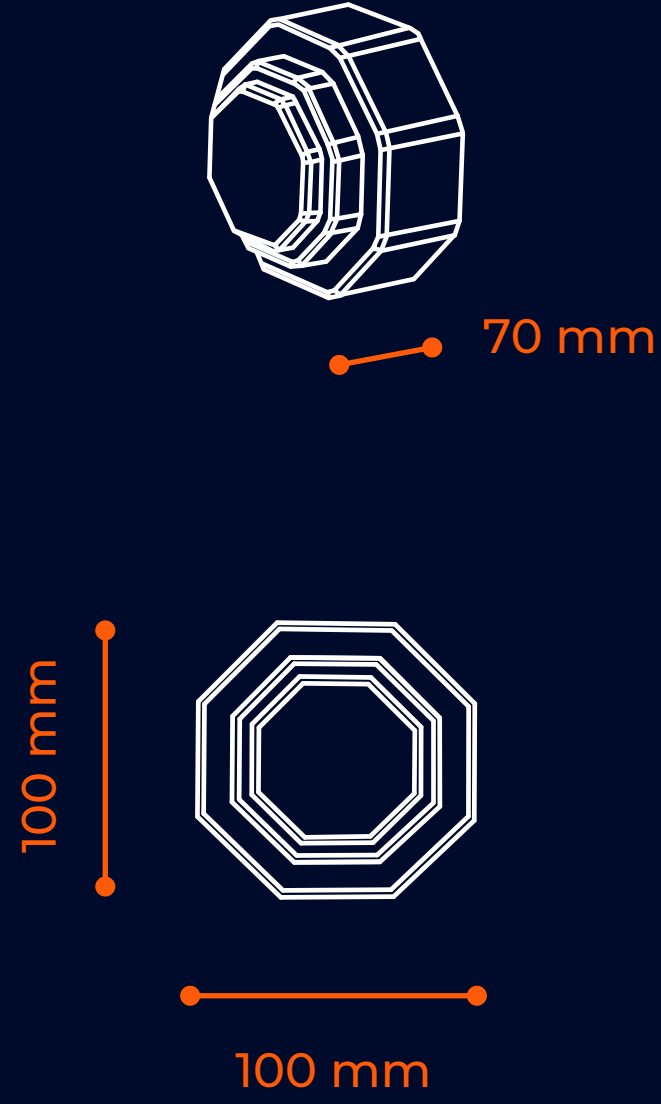
The VDR Live system status interface shows a dashboard with various performance metrics. At the top, it displays 'Update: 1.8.0, 68h and 27h', 'App Version: v1.8.0', and 'Release Date: 23.11.2021 23:38:44'. Below this is a line graph showing system activity over time. The main dashboard includes: CPU Temperature (38.0°C), Memory Information (Total Memory: 7.7 GB, Used Memory: 1.9 GB, Free Memory: 5.8 GB), Disk Information (listing paths like /dev/sda1, /dev/sdb1, and VDR_EMERG_BACKUP), and Fan/Temp sensors (INLET FAN SPEED: 3090 rpm, OUTLET FAN SPEED: 3000 rpm, TEMPERATURE: 26.50°C).

A 'Connect to device' dialog box is shown, asking 'What device do you want to connect to?'. The options are: DAU (Data Acquisition Unit), FPC (File Protected Capsule), and FFC (Float Free Capsule). A 'CONNECT' button is visible at the bottom.

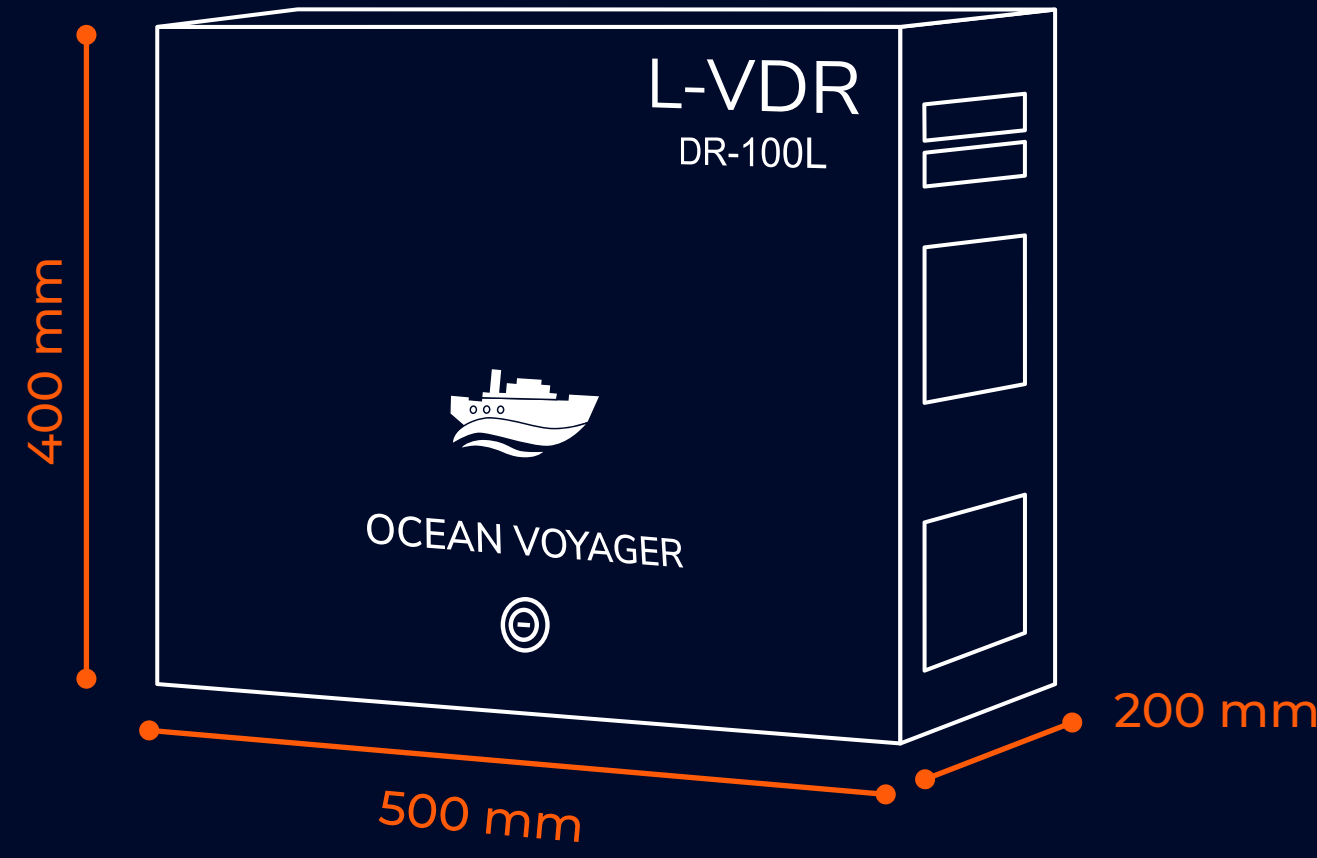
The VDR Config interface shows settings for Gyo, AIS, Gps, Echo Sounder, and Speed Log. Each item has an 'Active' status indicator and 'TEST' and 'EDIT' buttons. The items include Gyo (Sound Rate: 4000, Step Size: 0, Alert Timeout: 3000ms), AIS (Sound Rate: 3000, Step Size: 0, Alert Timeout: 3000ms), Gps (Sound Rate: 4000, Step Size: 0, Alert Timeout: 3000ms), Echo Sounder (Sound Rate: 4000, Step Size: 0, Alert Timeout: 3000ms), and Speed Log (Sound Rate: 4000, Step Size: 0, Alert Timeout: 3000ms).

Dimensions

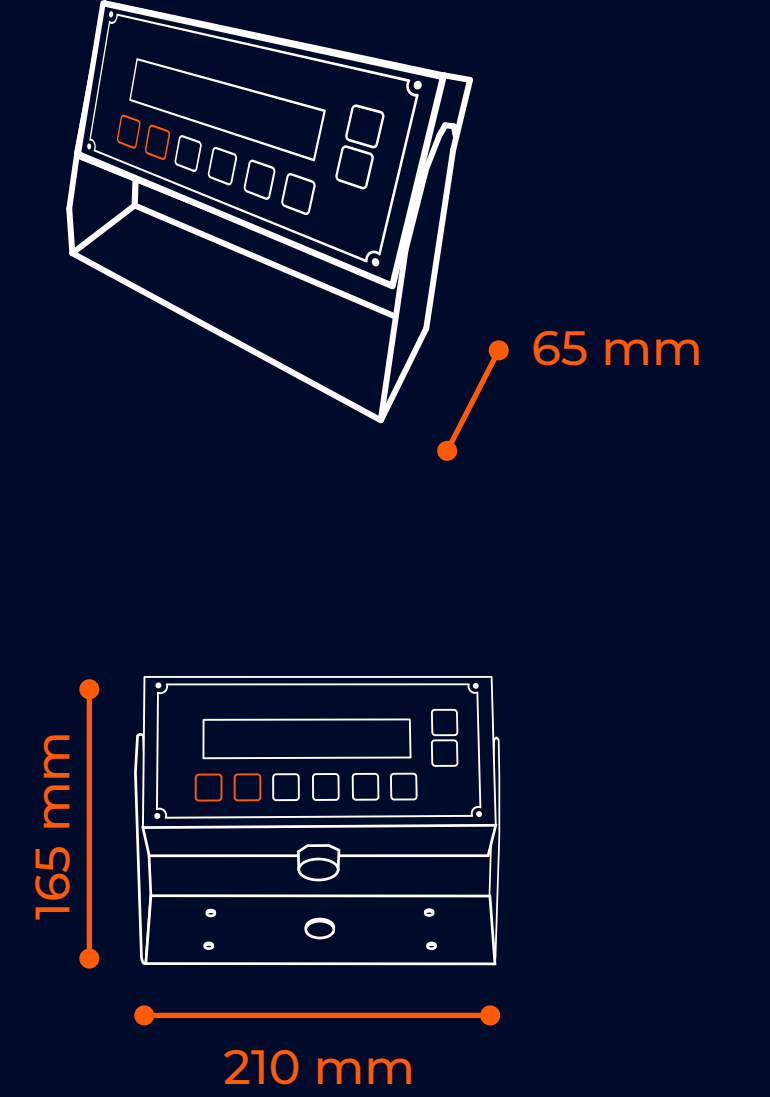
Microphone Unit



Data Acquisition Unit



Remote Alarm Panel



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"A PARTNER OF YOUR VOYAGE"

