

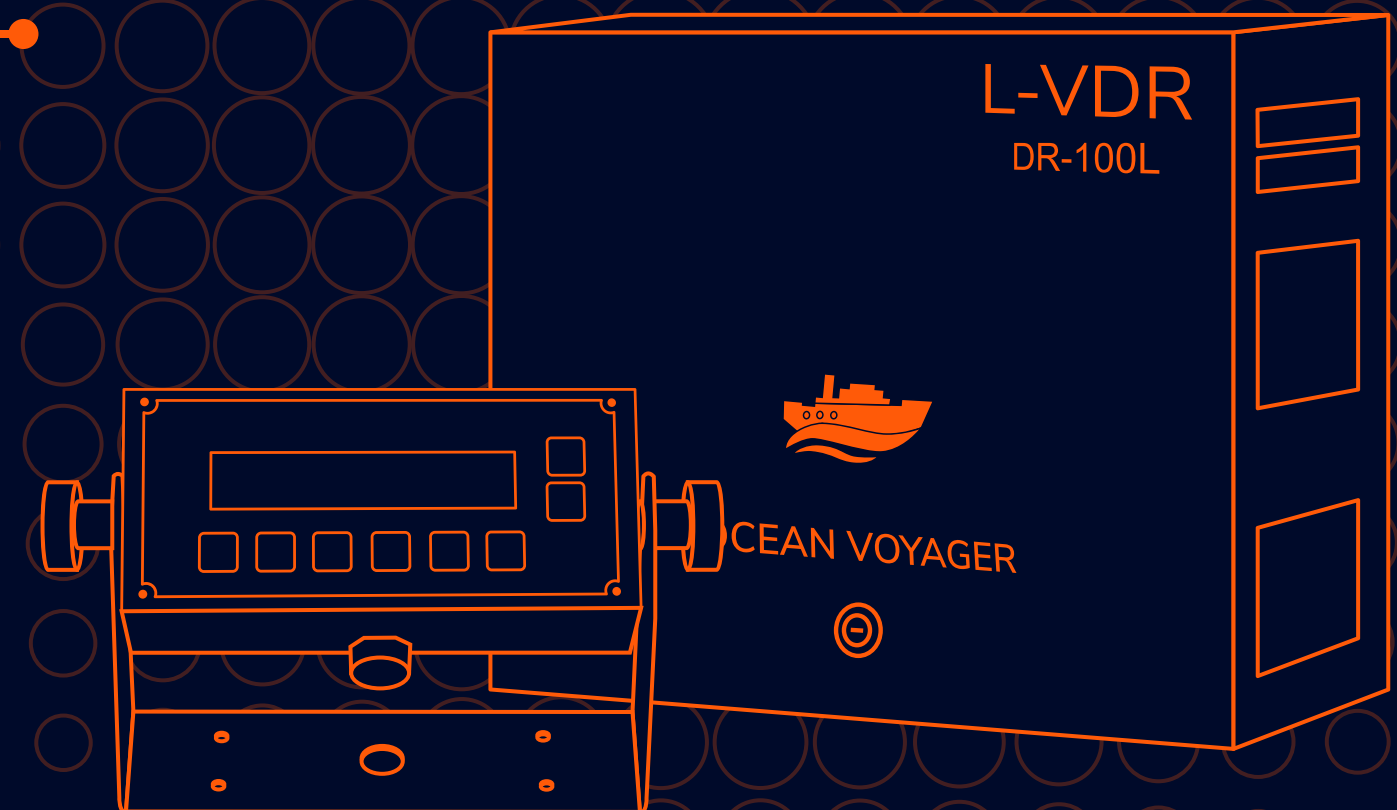


**OCEAN VOYAGER**

# 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



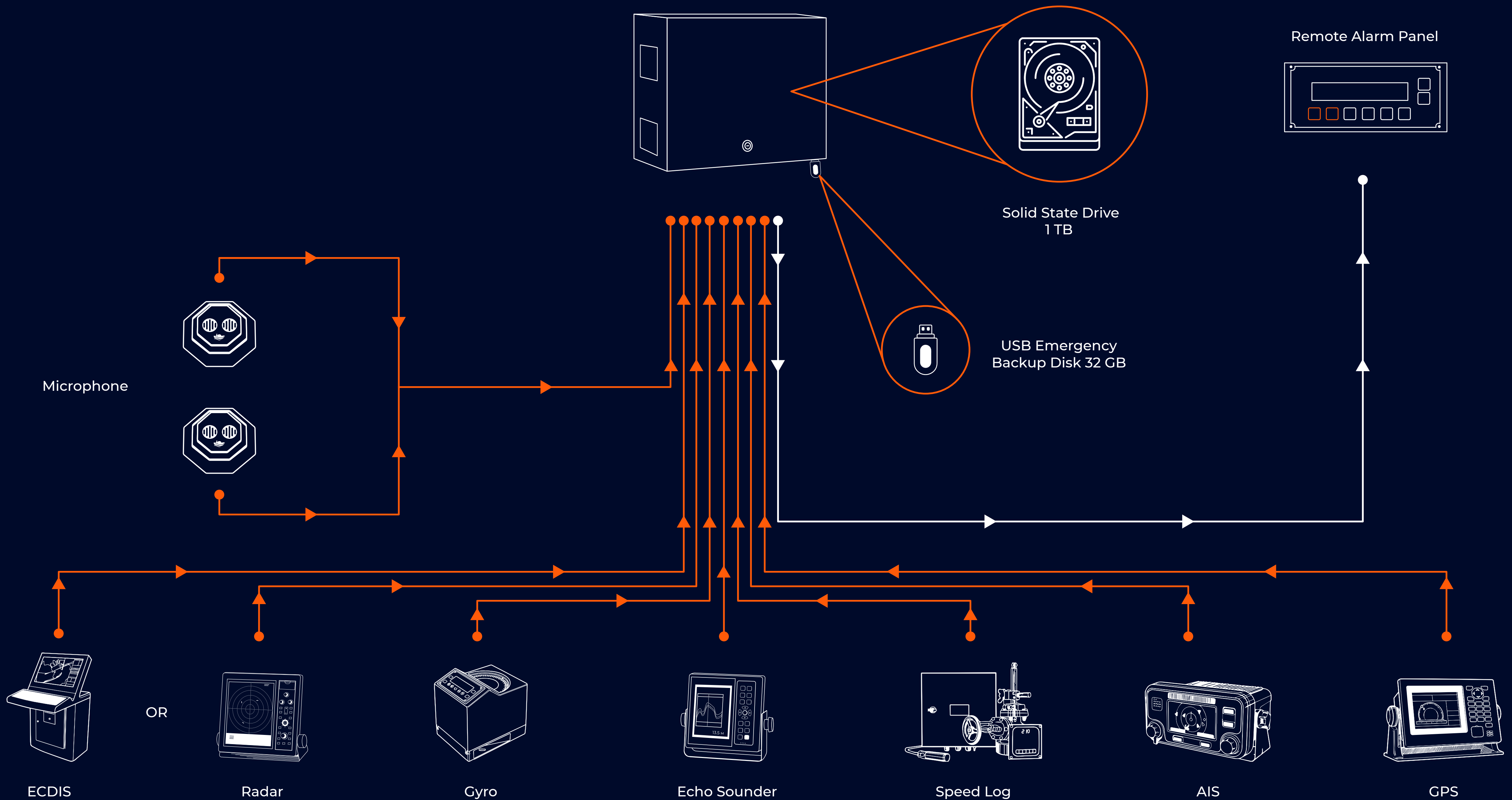
High  
Quality  
Service



Compliance  
With latest  
Standards

# CONFIGURATION

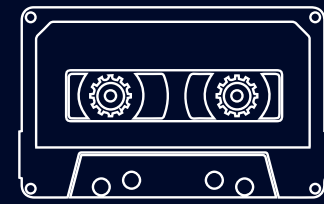
## Data Acquisition Unit



# COMPLIANCE WITH THE LATEST STANDARDS



Recording up to 4 hours  
in USB Emergency  
Backup Disk



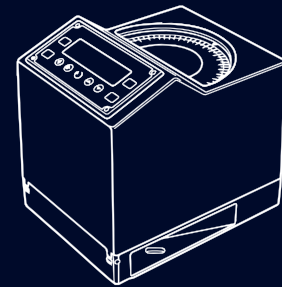
Recording up to 50  
days in Data  
Acquisition Unit



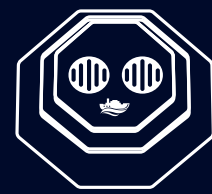
Image recording of up to 1  
Channel Radar / ECDIS via  
UDP



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 screenshot shows the 'VDR Live' interface. On the left is a navigation menu with options: System Status, Supply Status, Equipment, Audio Channel, Video Capture, Alarm, and System Log. The main area is titled 'Source' and contains a table of source selection options:

Source	Part	Serial	Timestamp
Distribution Panel COM21	COM21	SPRH,1,27,44,1,3030,1,2070*18	2021-08-24 07:45:48.831
Distribution Panel COM21	COM21	SPRH,1,27,44,1,3030,1,2070*10	2021-08-24 07:45:47.825
Distribution Panel COM21	COM21	SPRH,1,27,44,1,3030,1,2070*18	2021-08-24 07:45:48.831
Distribution Panel COM21	COM21	SPRH,1,27,44,1,3030,1,2070*18	2021-08-24 07:45:48.830
Distribution Panel COM21	COM21	SPRH,1,27,38,1,3030,1,2070*13	2021-08-24 07:45:44.823
Distribution Panel COM21	COM21	SPRH,1,27,44,1,3030,1,2070*18	2021-08-24 07:45:48.833

## Player

The screenshot shows the 'VDR Player' interface. The main display is an X-Band Radar showing a target at 0.5 miles. The interface includes 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
- GPS:** Altitude: 37 m, Quality: DGPS, HDOP: 1, SAT: 8
- DEPTH:** Water Depth, Offset
- HEADING:** True Heading: 115.1°
- SYSTEM:** Alarms (1385)

## Configuration

The screenshot shows the 'VDR Config' interface. It features a navigation menu on the left and a grid of configuration cards for various components:

- 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
- Sub VHF:** Channel: Channel 8, Source: External

The screenshot shows the 'VDR Live' interface displaying system health and performance metrics:

- CPU Temperature:** 38.0°C
- Memory Information:** Total Memory: 7.7 GB, Used Memory: 1.9 GB, Free Memory: 5.8 GB
- Disk Information:** Table showing disk usage for /dev/sda1 (0.50 GB) and /dev/sdb1 (VDR\_EMERG\_BACKUP, 28.85 GB)
- INLET FAN SPEED:** 3090 rpm
- OUTLET FAN SPEED:** 3000 rpm
- TEMPERATURE:** 26.50 °C

The screenshot shows a 'Connect to device' dialog box with the following options:

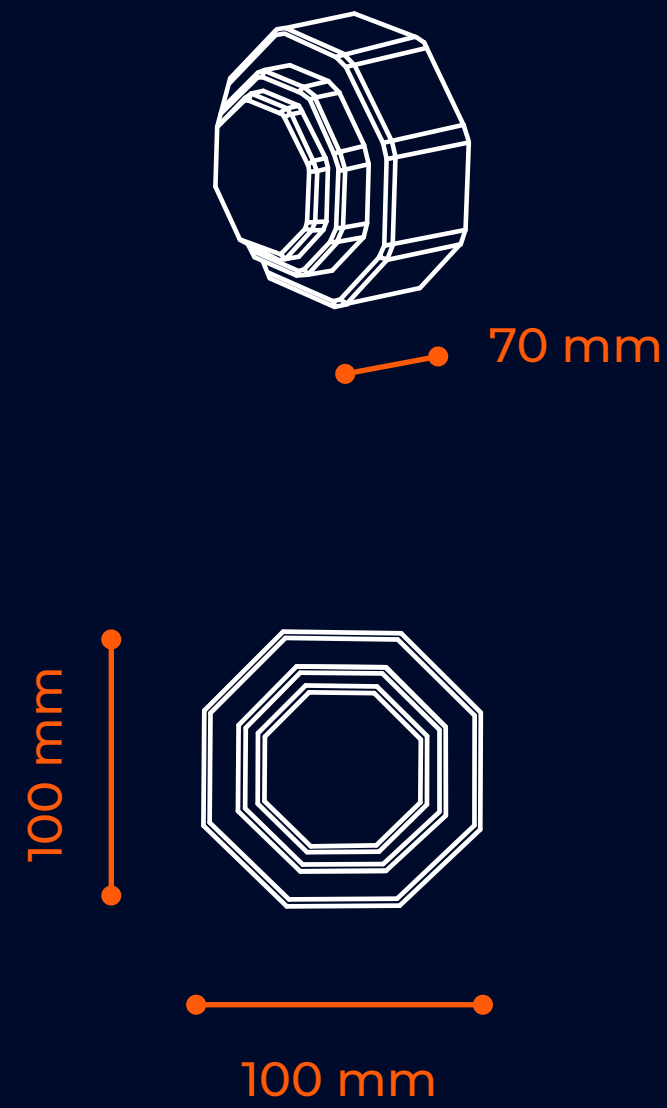
- DAU Data Acquisition Unit
- FPC File Protected Capsule
- FFC Float Free Capsule

The screenshot shows the 'VDR Config' interface with detailed hardware configuration for various components:

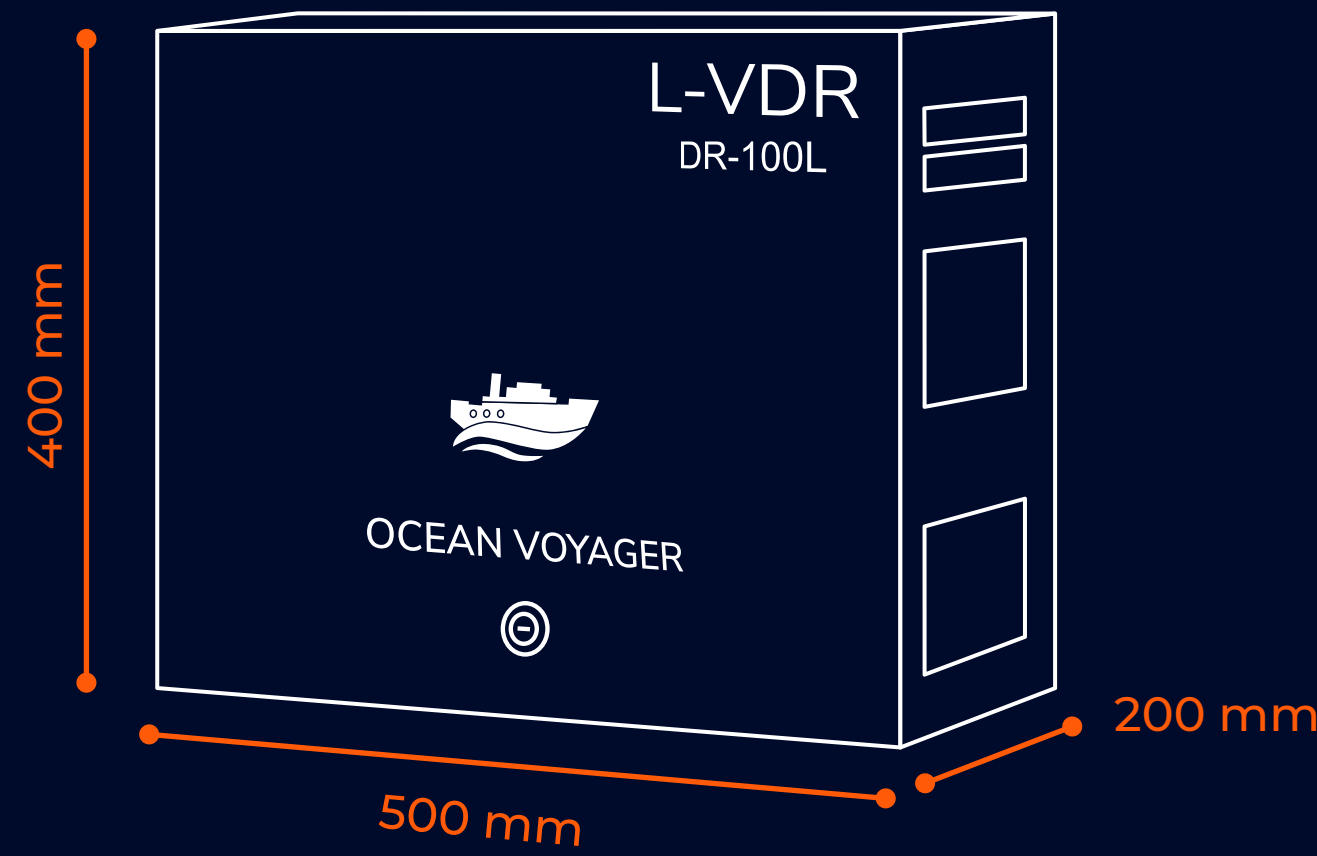
- Gyro:** Part: Gyro, Type: Gyro
- AIS:** Part: AIS, Type: AIS
- Speed Log:** Part: Speed Log, Type: Speed Log
- Echo Sounder:** Part: Echo Sounder, Type: Echo Sounder

# Dimensions

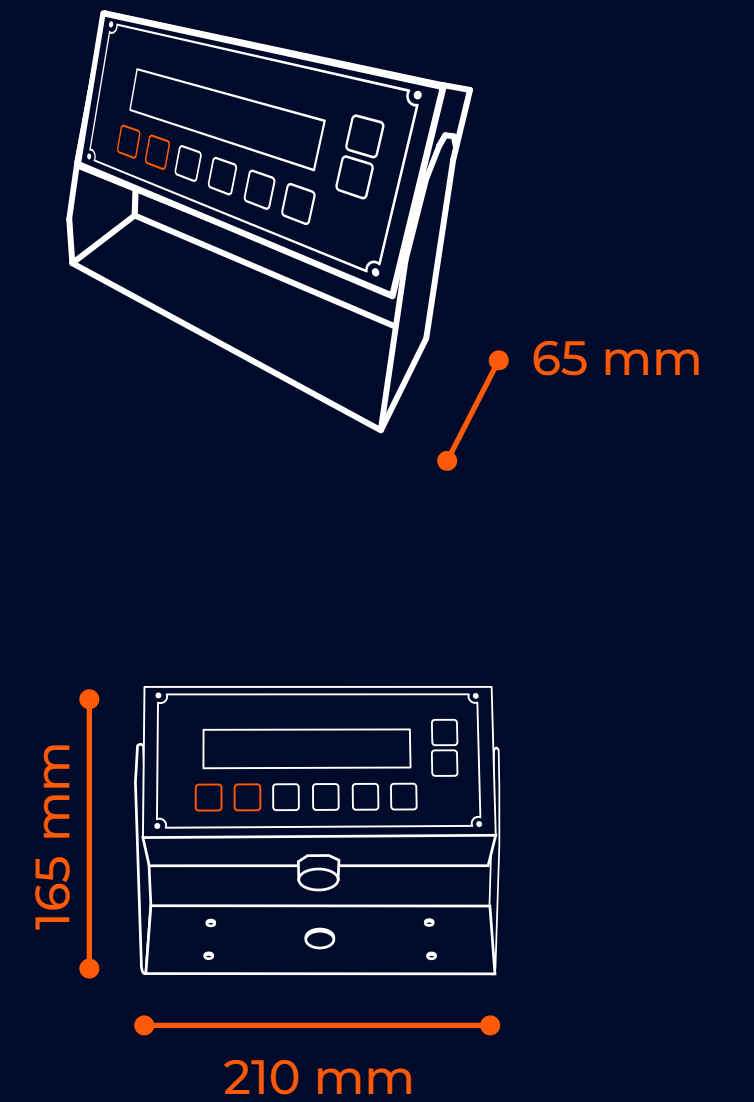
Microphone Unit



Data Acquisition Unit



Remote Alarm Panel



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