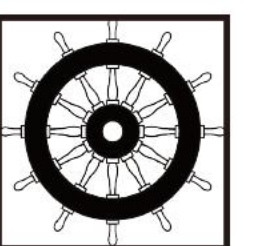


# VDR

HLD-VDR 700/SVDR 700



## Voyage Data Recorder Ship Data Integration Platform



## Features

- Compliance**

The product complies with IMO A.861(20), MSC.333(90)/MSC.163(78), MSC.493(104)/MSC.494(104), IEC 61996-1:2021/IEC 61996-2, as well as MSC.302(87) and IEC 60945, and provides VDR basic functions in accordance with the latest specifications.

- Reliability**

Reliability is ensured through industrial-grade chips, embedded software and hardware technology, a low-power fanless design, strict factory testing, a global service network, and responsive and timely support.

- Efficiency**

The system is compatible with installation and wiring methods of other VDR models, enabling quick replacement. Configuration files can be imported and exported via USB drive, reducing installation and service costs. Additional flexible configurations meet a wide range of requirements.

- Intelligence**

The product features powerful data processing capabilities, supports the capture of 4K images, and interfaces with AMS, onboard electronic monitoring, and engine room management systems to obtain a greater volume of ship information.

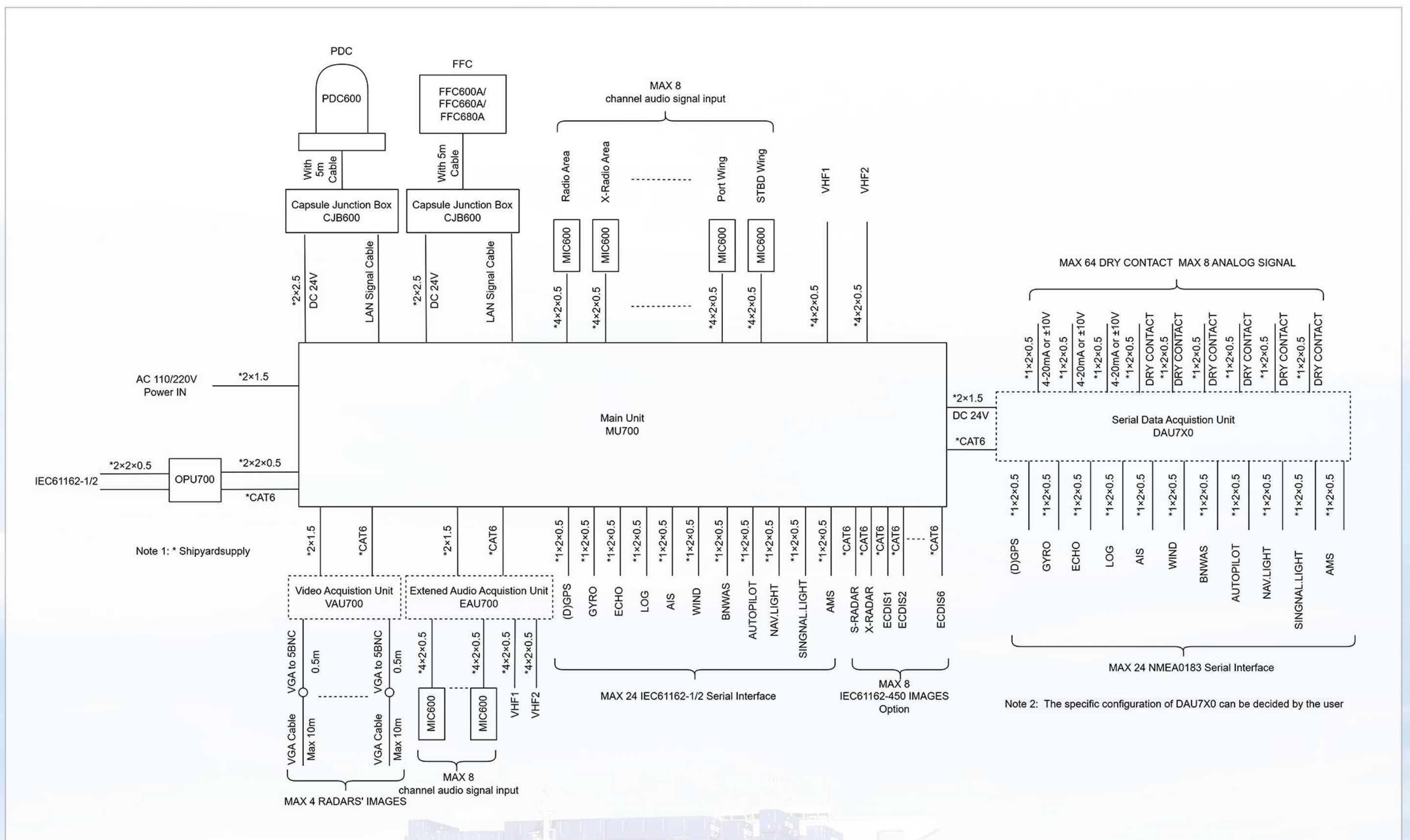
- Independence**

Backed by more than 20 years of experience in VDR product development and sales, the product offers independent intellectual property rights and a long product life cycle, reducing lifecycle operating costs.

- Value-added**

Optional expansion data acquisition units and remote management modules enable ship data integration platform functions.

## System Diagram



## » Product specifications and configuration

### **[Main Unit MU700]**

- AC 100V ~ 240V power supply, power consumption not more than 50W
- 8 MIC, 4 VHF
- 24-channel IEC 61162-1/2 serial data acquisition, 4800kbps ~ 38400 kbps, adaptive baud rate
- 10 Gigabit LAN interfaces (available)
- Built-in long-term storage, recording at least 720 hours of data
- 2 USB interfaces
- Built-in 24V battery, meeting the 2-hour recording requirement after the main power supply is interrupted

### **[Data Acquisition Unit DAU700]**

- 64 switching inputs
- Optional 8 analog inputs, configurable as  $\pm 10V$  or 0-20mA input

### **[Indoor/Outdoor Microphone MIC600/610]**

- Integrated Microphone Self-test Function
- Response Frequency 100 Hz ~ 8 KHz

## » Optional

### **[HD Image Acquisition Unit VAU700]**

- Up to 4 channels of DVI/HDMI image data
- Maximum resolution: 3840x2160@60Hz

### **[Extended Data Acquisition Unit]**

#### **SI Serial Input, AI Analog Input, DI ON/OFF Input**

- DAU710: 8 SI, 64 DI
- DAU720: 8 SI, 8 AI, 64 DI
- DAU730: 16 SI, 64 DI
- DAU740: 8 SI, 8 AI

### **[Float-free Data Recording Capsule FFC600A]**

- Storage time: not less than 48 hours
- Meet the special requirements of IEC 61996 for memory banks
- EPIRB meets IEC 61097-2, Requirements of MSC. 494(104)/MSC.493(104), IMO A.810(19) and ITU-RM 633-3:2004
- Water-tight under 10 meters for at least 5 minutes
- It can float in any sea water and can float upright in calm sea water.
- No damage if dropped into sea water from a height of 20 meters

### **[Fixed Protective Data Recording Capsule PDC600]**

- Storage Time: No Less Than 48 Hours
- Meet the Special Requirements of IEC 61996 for Memory Banks

### **[Operation Display Unit OPU700]**

- 800x480 Resolution, Touch LCD Screen
- Faults and Alarms, Friendly Human-machine Interface

### **[VGA Image Acquisition Unit VAU600]**

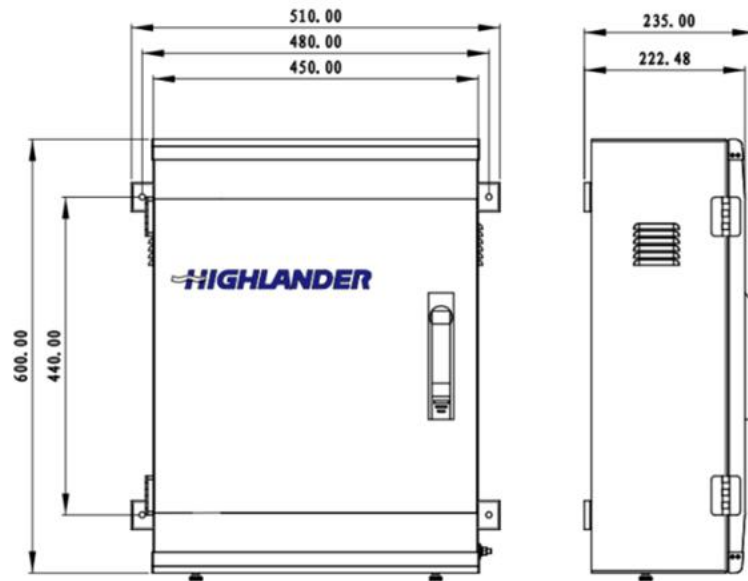
- Up to 4 Channels of VGA Image Data
- Maximum Resolution 1920x1200x60Hz

### **[Remote Management Unit RMU700]**

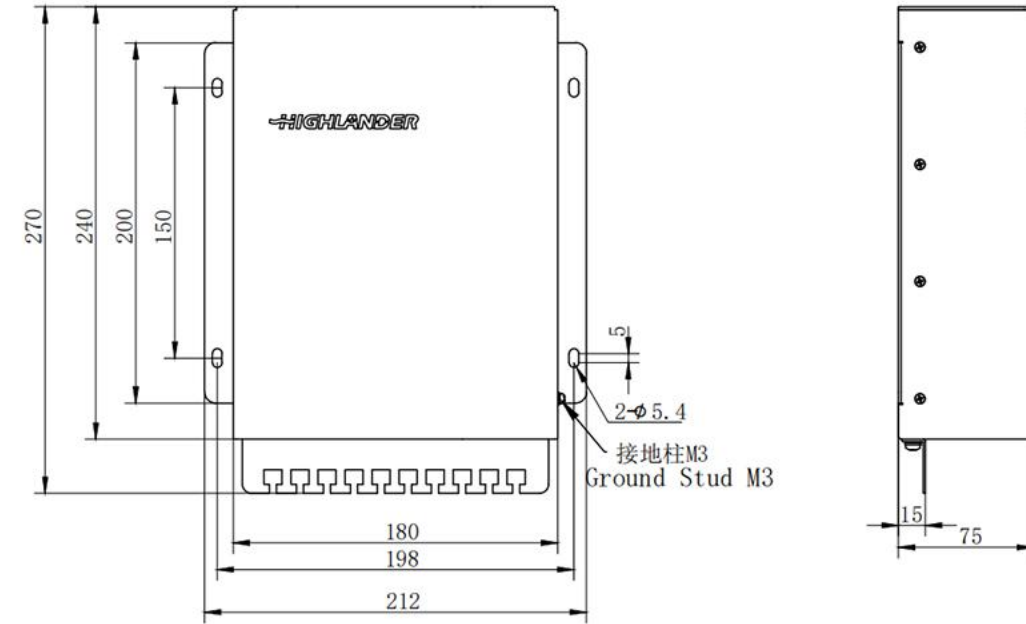
- 2 Gigabit Ethernet Interface
- 6 RS485 Interface, 2 USB Interface
- Optional 512GB, 1TB, 2TB, 4TB Storage Space

## » Dimensions

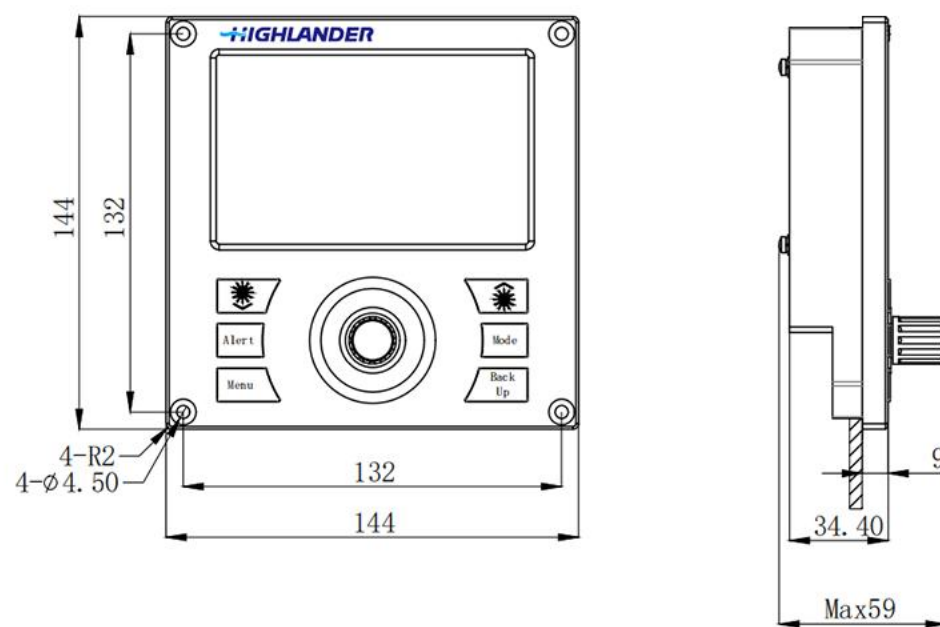
**[Main Unit MU700] 18.0kg**



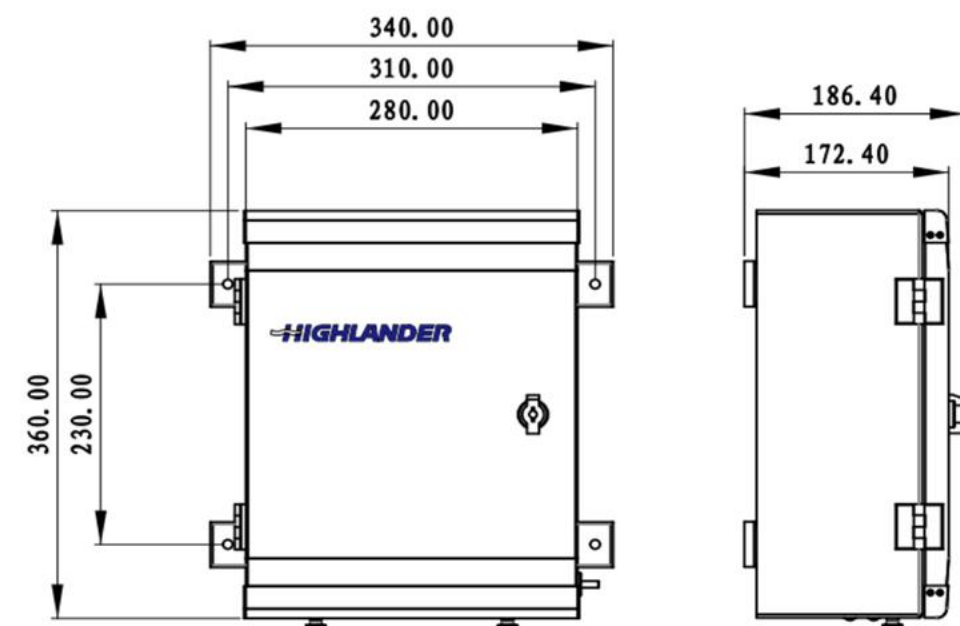
**[Extended Audio Acquisition Unit EAU700] 1.5kg**



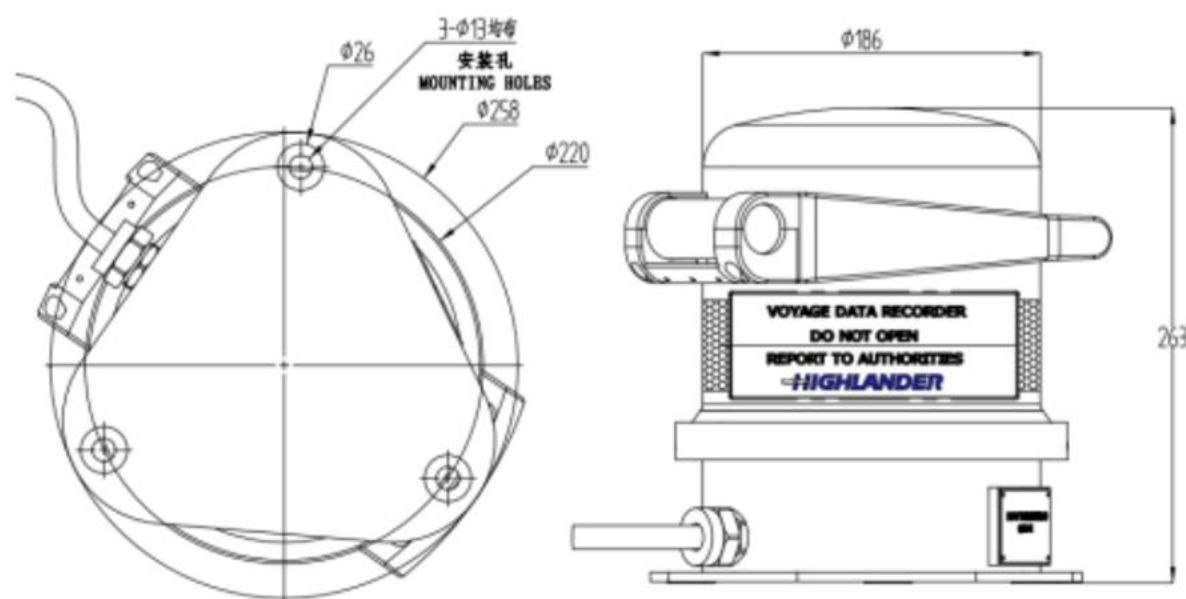
**[Operating Unit OPU700] 0.75kg**



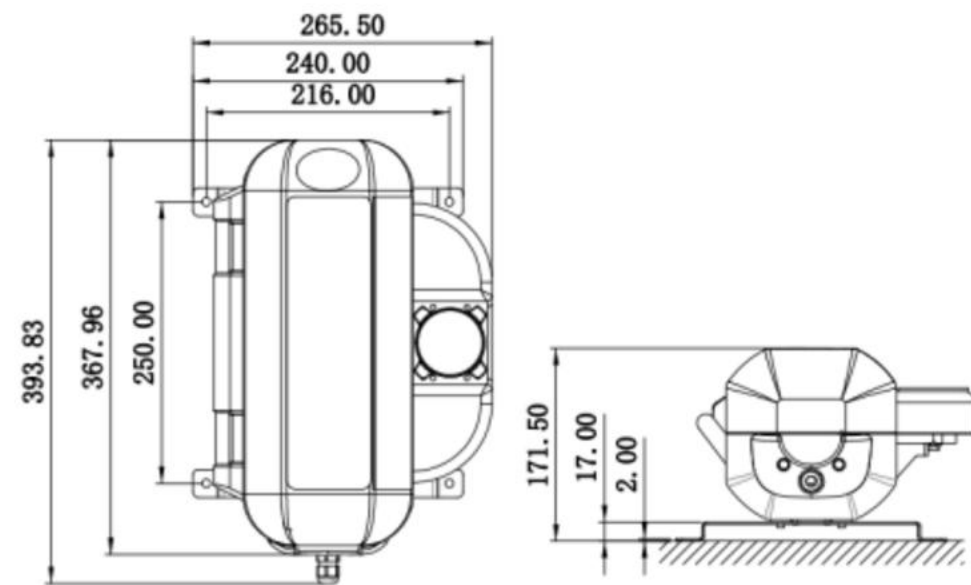
**[Data Acquisition Unit DAU700] 7.6kg**



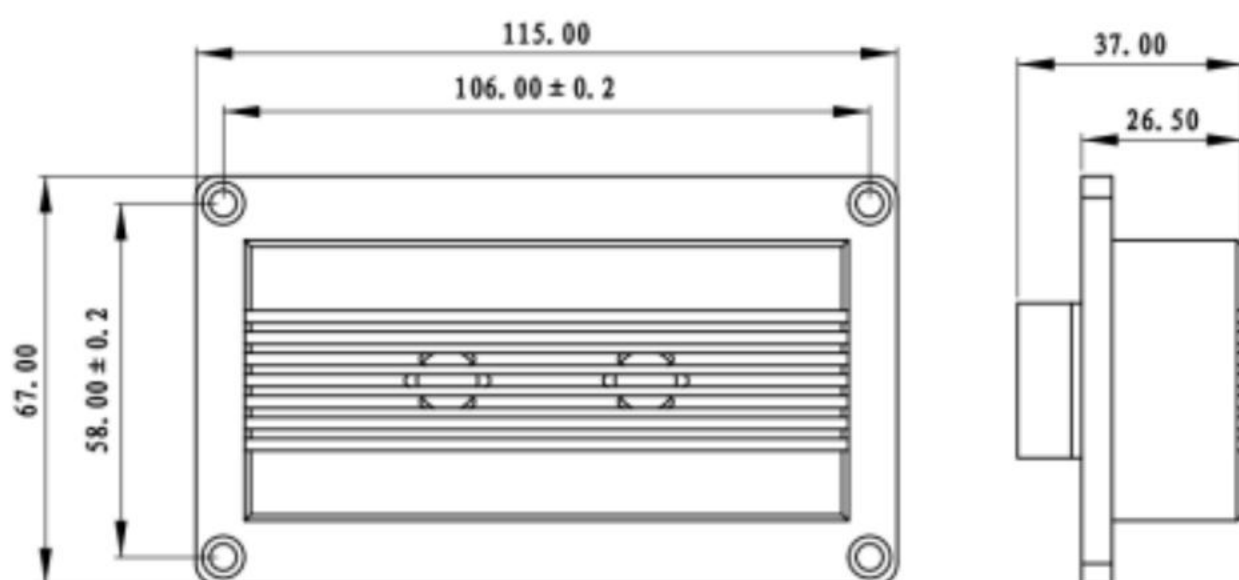
**[Fixed Protective Data Recording Capsule PDC600] 17kg**



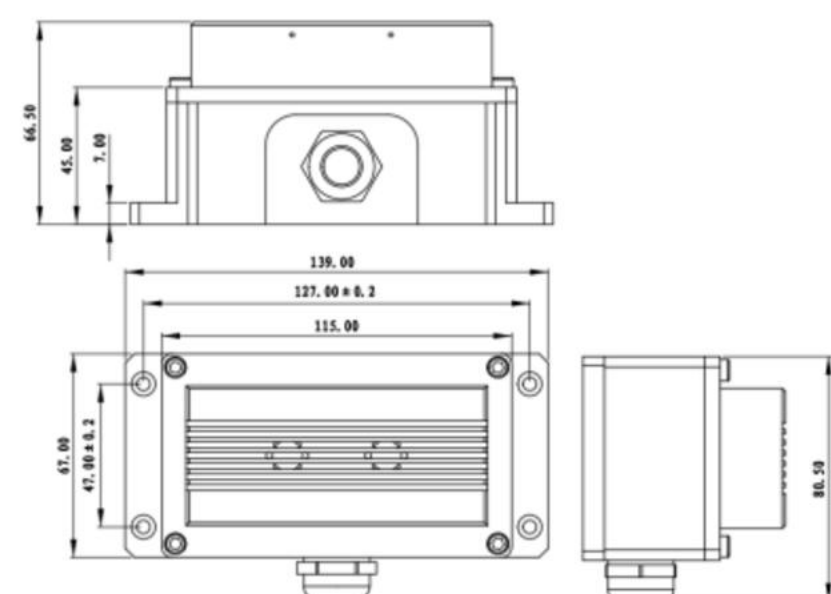
**[Float-free Data Recording Capsule FFC600A] 4.4kg**



**[Indoor Microphone MIC600] 0.3kg**



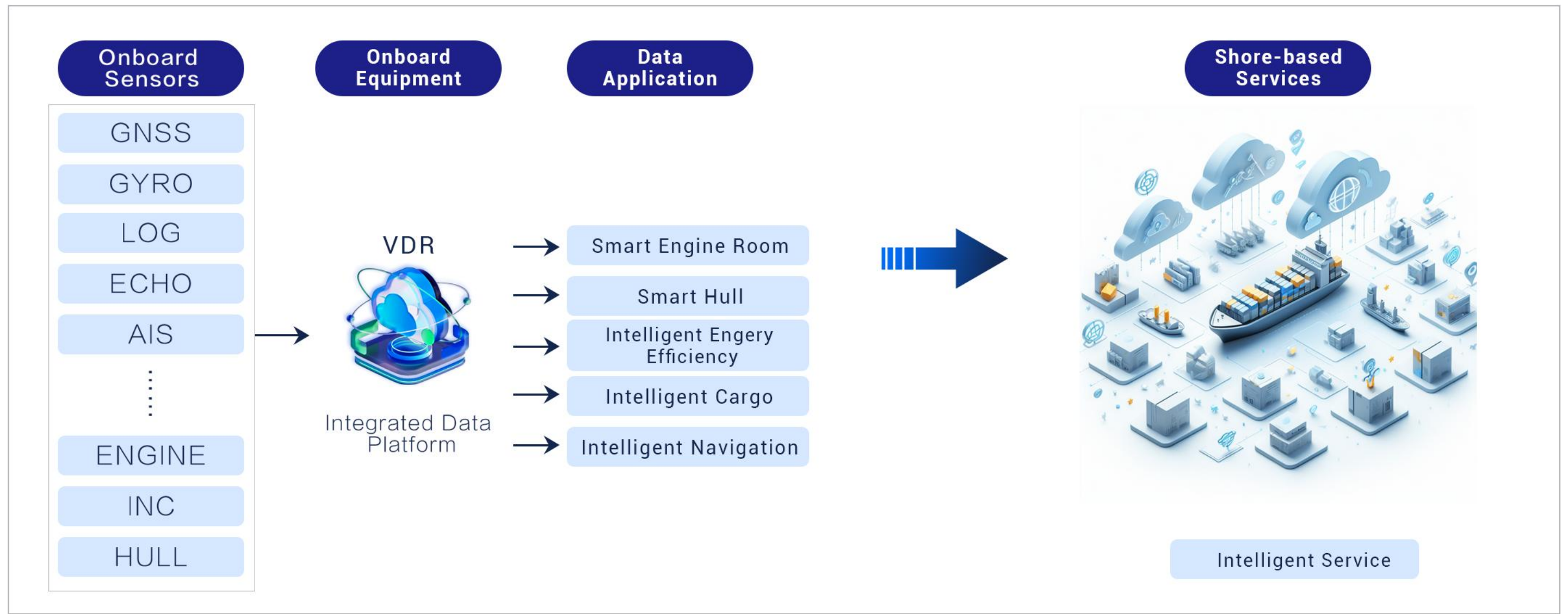
**[Outdoor Microphone MIC610] 0.5kg**



## » Data Integration Platform

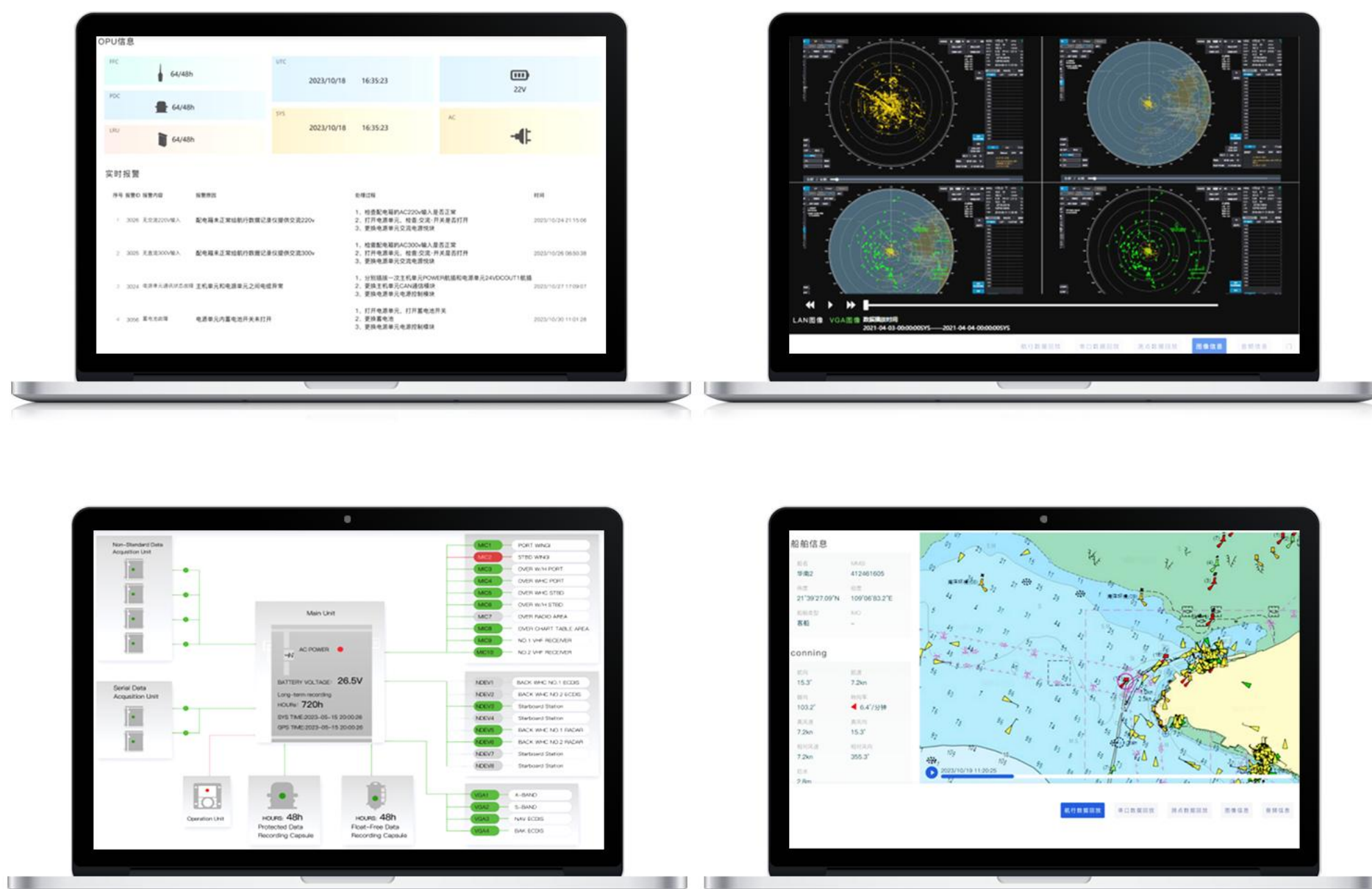
- Leverages the data capabilities of the VDR to access a wider range of data, improve information management, and promote intelligent operations.
- Reduces redundant wiring across intelligent systems, lowering construction and service costs.
- Large-capacity storage: in addition to standard fixed, floating, and long-term storage units, the system supports up to 4 TB of extended storage space onboard or in the cloud.
- Equipped with data distribution and remote data download functions to enable ship owners to implement remote monitoring and data reuse.

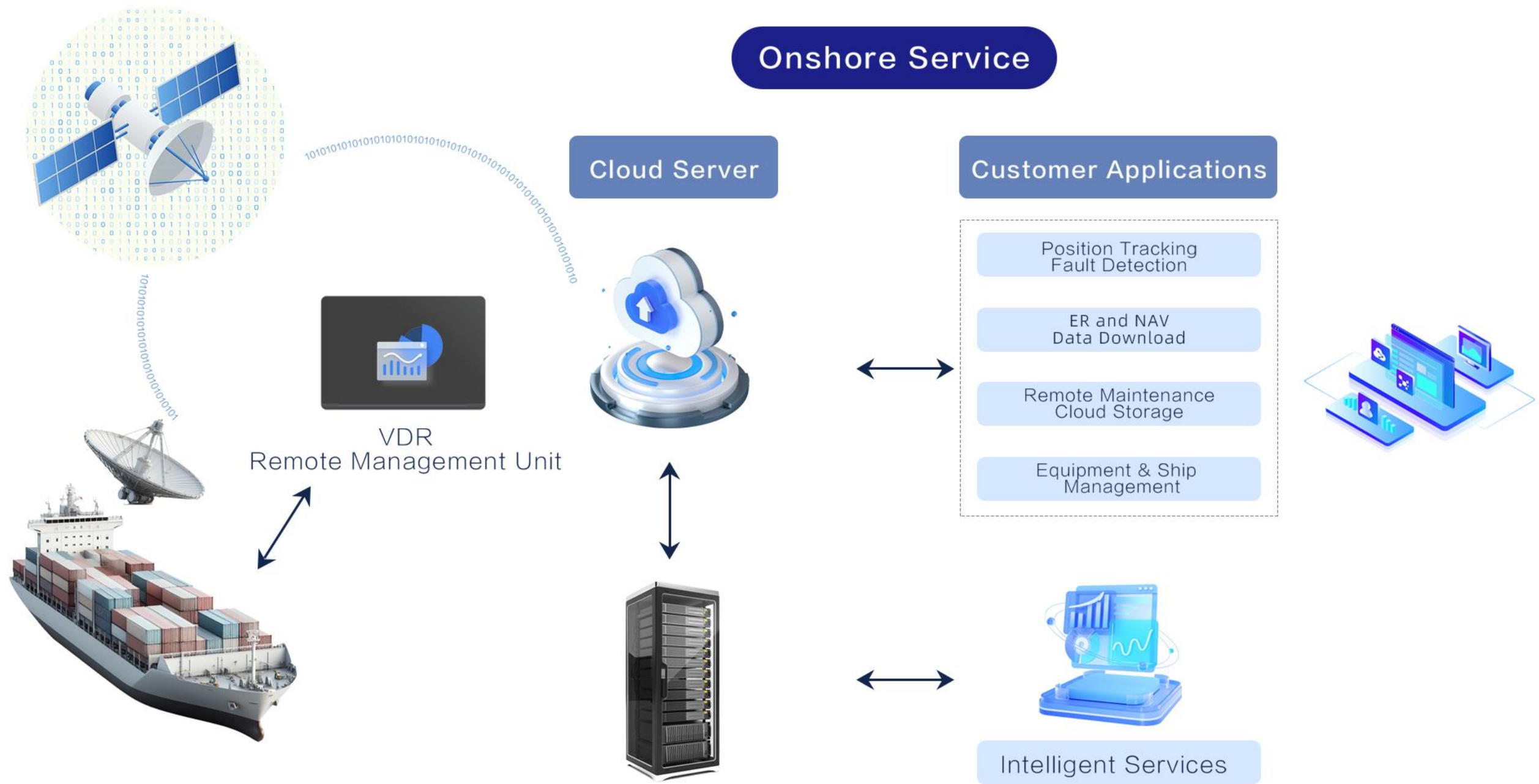
## » VDR Integrated Data Platform Features



## » Worry-free Navigation & Unimpeded Data

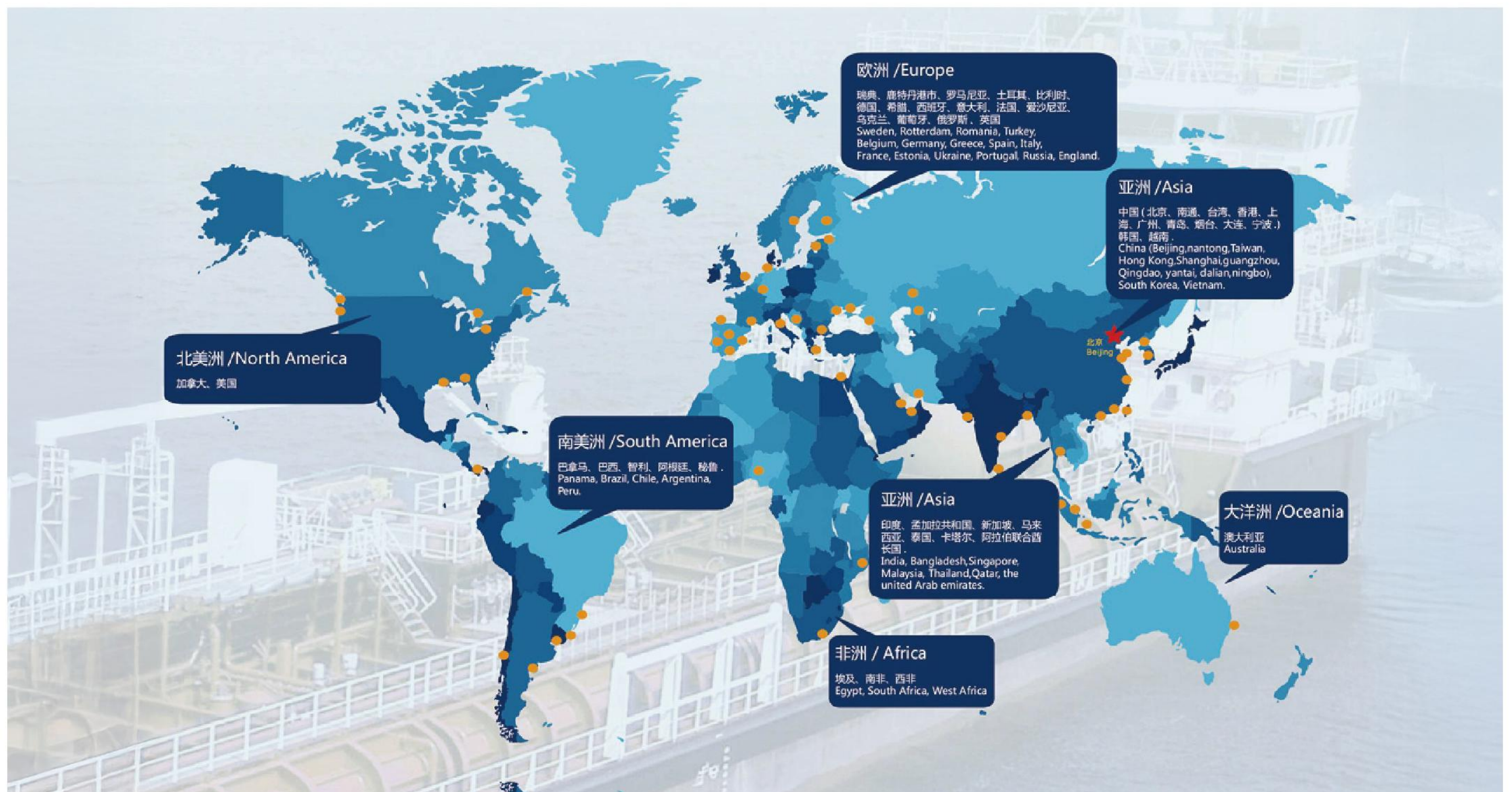
- VDR700 has remote configuration and OTA upgrade functions. Service personnel can implement remote software upgrades, provide timely technical support, and reduce service costs.
- The system supports remote data download and digital automatic inspection processes. VDR data can be obtained without boarding the ship, which can shorten APT inspection time and reduce usage and service costs.
- It also accesses the relevant alarm management information of the entire ship, transmits it back to the shore for remote ship health monitoring, and assists in equipment health monitoring and management.
- The VDR700 can obtain ship operation information, achieve symmetry of ship-to-shore information, and reconstruct historical processes on the shore at any time, simplifying the management process and reducing management costs.





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