

VDR

HLD-VDR 700/SVDR 700



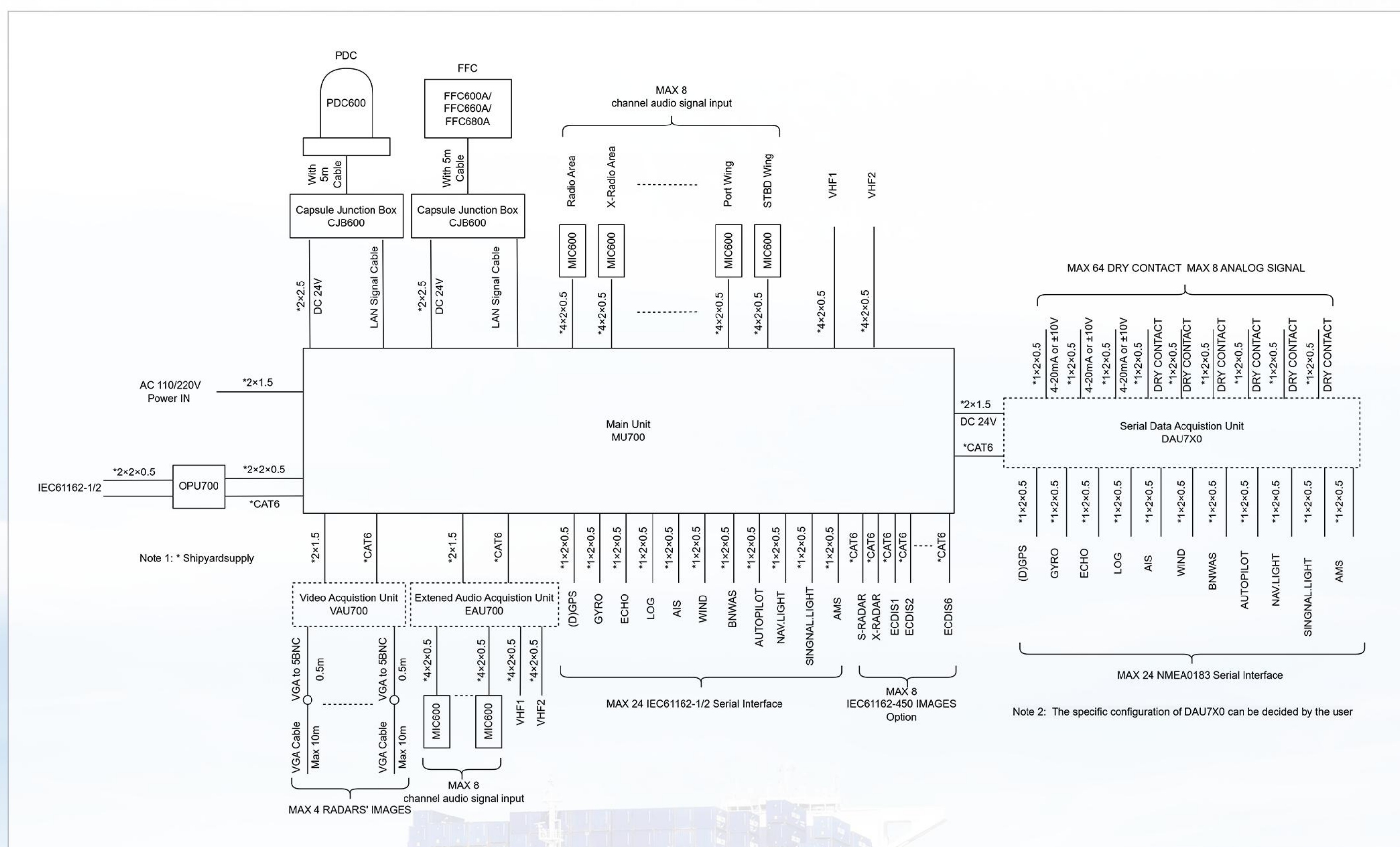
Voyage Data Recorder Ship Data Integration Platform



» Features

- **Compliance:** The product complies with the requirements of standards including IMO A.861(20), MSC.333(90)/MSC.163(78), MSC.493(104)/MSC.494(104), IEC 61996-1:2021/IEC 61996-2, MSC.302(87), and IEC 60945, and provides VDR basic functions in accordance with the latest specifications.
- **Reliability:** Reliability is ensured through the adoption of industrial-grade chips, embedded software and hardware technology, and a low-power fanless design. The product undergoes strict factory testing and is backed by a global service network, providing attentive and timely support.
- **Efficiency:** The system is compatible with the 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. Flexible configuration options are available to 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 acquire a greater volume of ship information.
- **Independence:** Backed by over 20 years of experience in VDR product manufacturing and sales, the product features independent intellectual property rights and a long product life cycle, helping to reduce full-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 exceeding 50W
- 8-channel MIC, 4-channel VHF
- 24-channel IEC 61162-1/2 serial data acquisition, 4800 kbps-38400 kbps, configuration-free 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 main power supply interruption

【Data Acquisition Unit DAU700】

- 64-channel digital switching inputs
- Optional 8-channel 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

【Float-free Data Recording Capsule FFC600A】

- Storage time: no less than 48 hours
- Meets the special requirements of IEC 61996 for memory banks
- EPIRB meets the requirements of IEC 61097-2, MSC.494(104)/MSC.493(104), IMO A.810(19), and ITU-R M.633-3:2004
- Watertight at a depth of 10 meters for at least 5 minutes
- Capable of floating in any seawater; floats upright in calm seawater
- No damage when dropped into seawater from a height of 20 meters

【Fixed Protective Data Recording Capsule PDC600】

- Storage time: no less than 48 hours
- Meets the special requirements of IEC 61996 for memory banks

【Operation Display Unit OPU700】

- 800×480 resolution, touch LCD screen
- Displays faults and alarms; user-friendly human-machine interface

» Optional

【HD Image Acquisition Unit VAU700】

- Up to 4 channels of DVI/HDMI image data
- Maximum resolution: 3840×2160 @ 60 Hz

【VGA Image Acquisition Unit VAU600】

- Up to 4 channels of VGA image data
- Maximum resolution: 1920×1200 @ 60 Hz

【Extended Data Acquisition Unit】

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

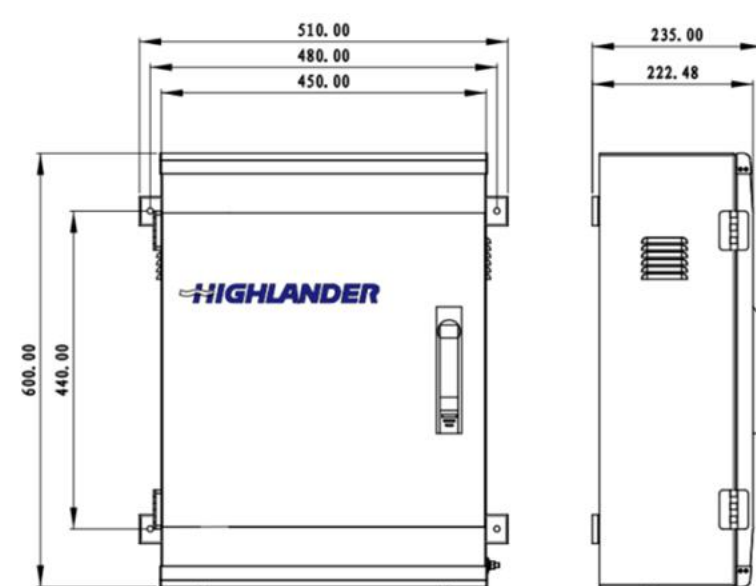
- DAU710: 8 SI, 64 DI
- DAU720: 8 SI, 8 AI, 64 DI
- DAU730: 16 SI, 64 DI
- DAU740: 8 SI, 8 AI

【Remote Management Unit RMU700】

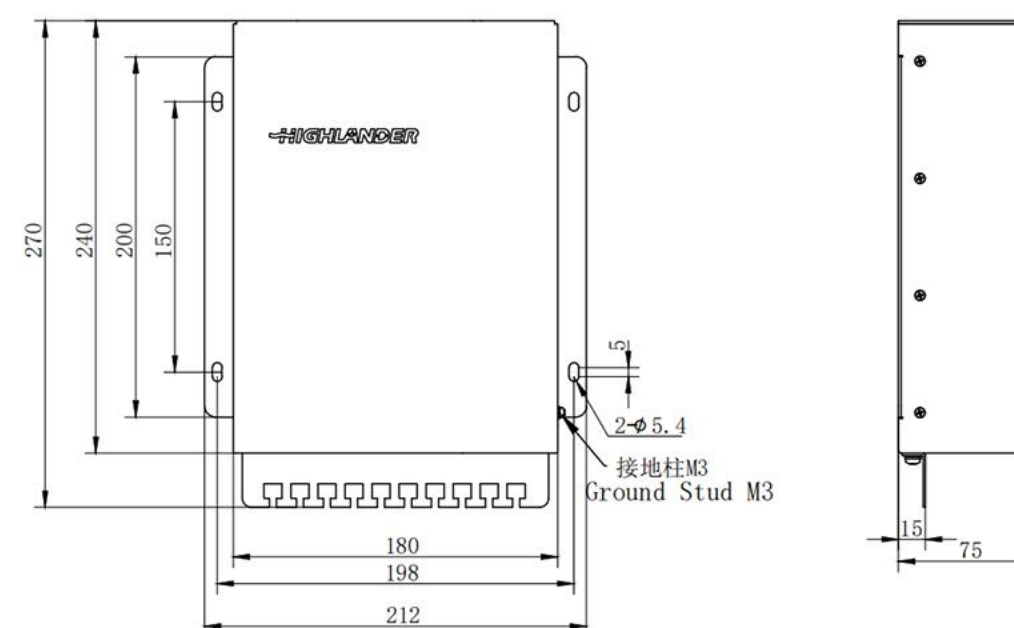
- 2 Gigabit Ethernet interfaces
- 6 RS485 interfaces, 2 USB interfaces
- Optional 512GB, 1TB, 2TB, 4TB storage space

» Dimensions

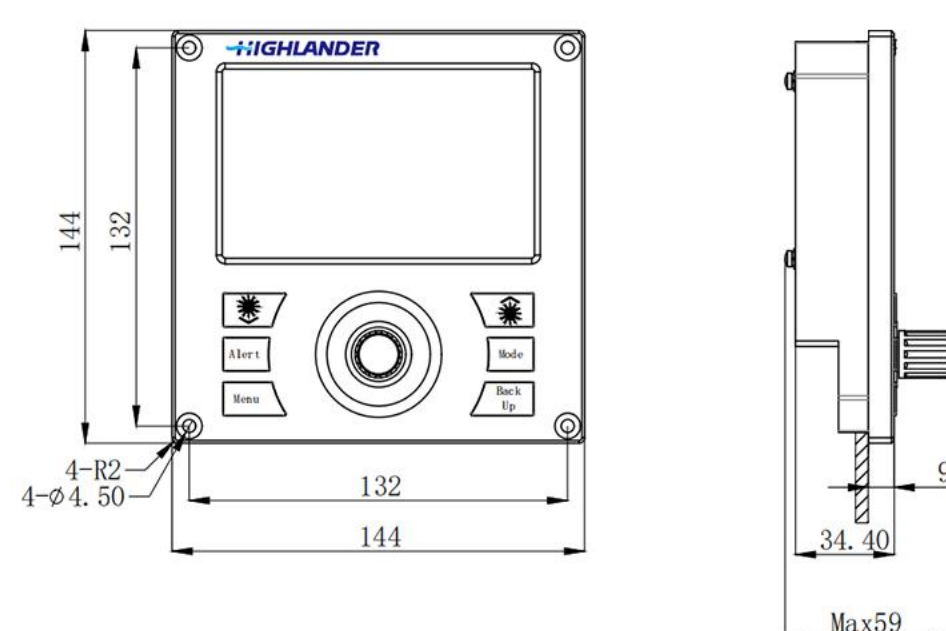
【Main Unit MU700】 18.0kg



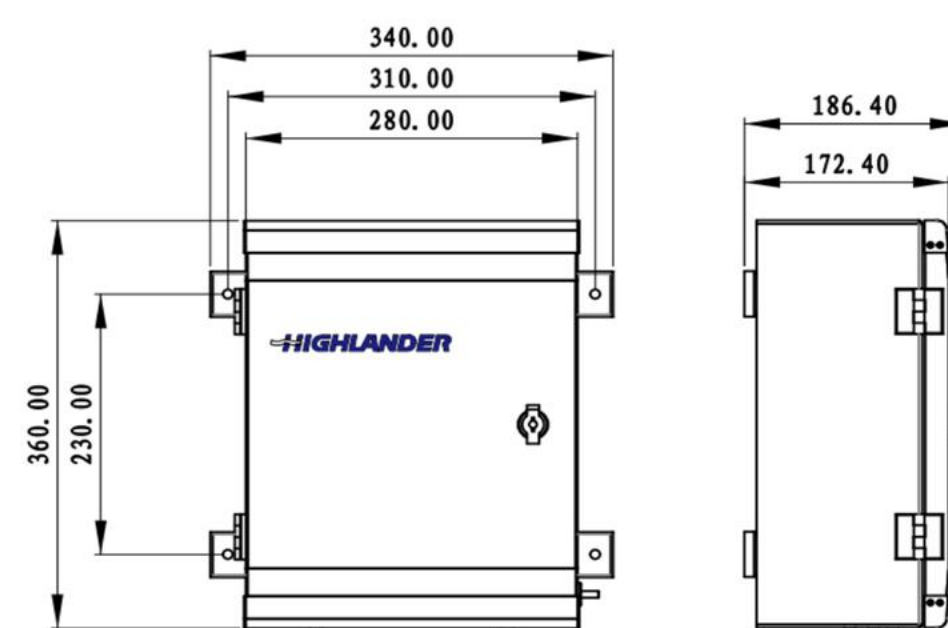
【Extended Audio Acquisition Unit EAU700】 1.5kg



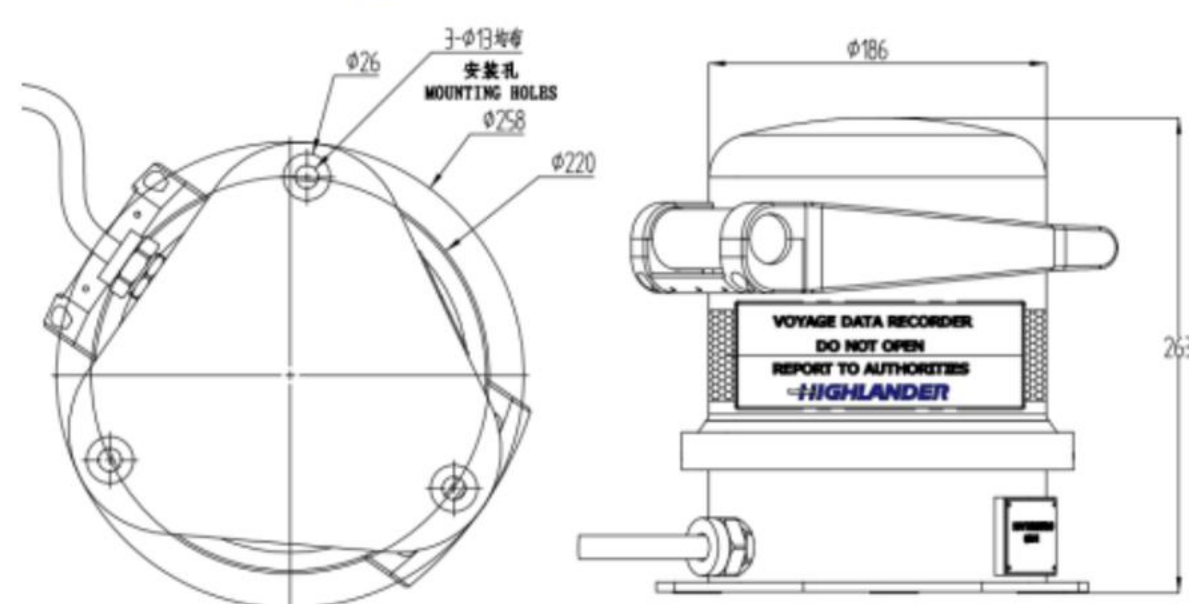
【Operating Unit OPU700】 0.75kg



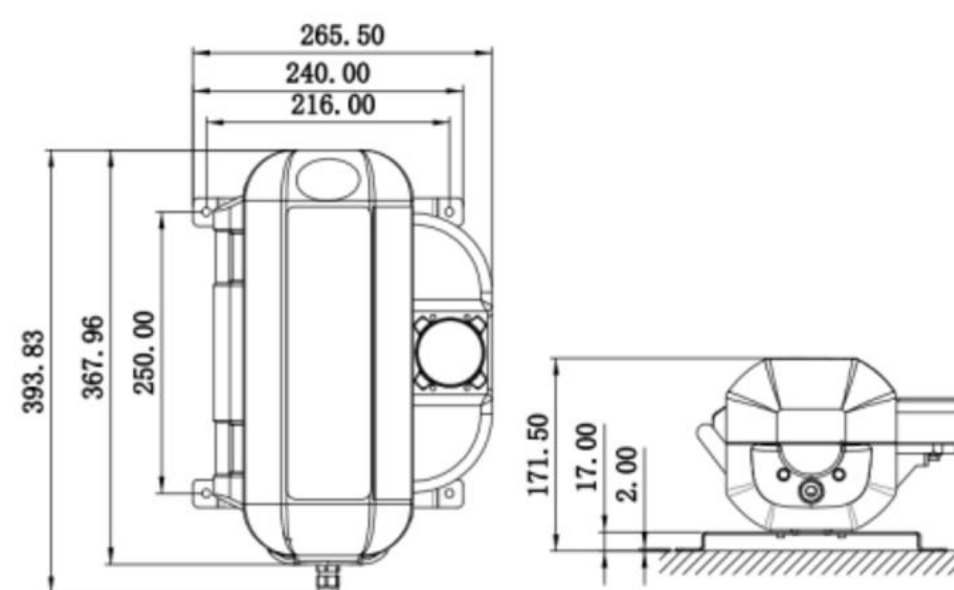
【Data Acquisition Unit DAU700】 7.6kg



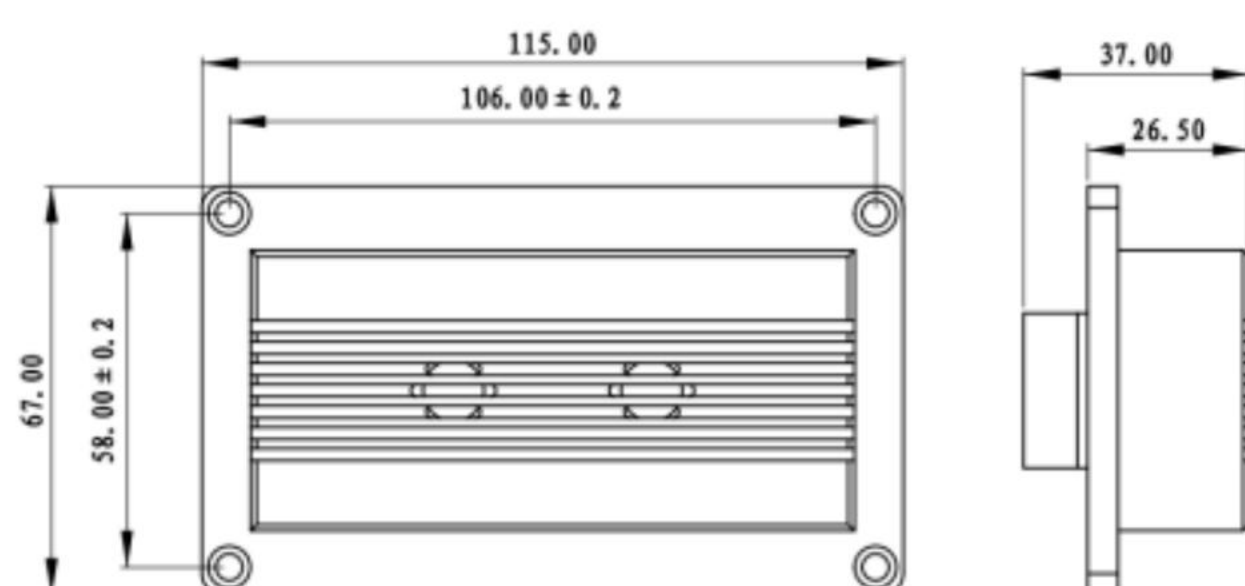
【Fixed Protective Data Recording Capsule PDC600】 17kg



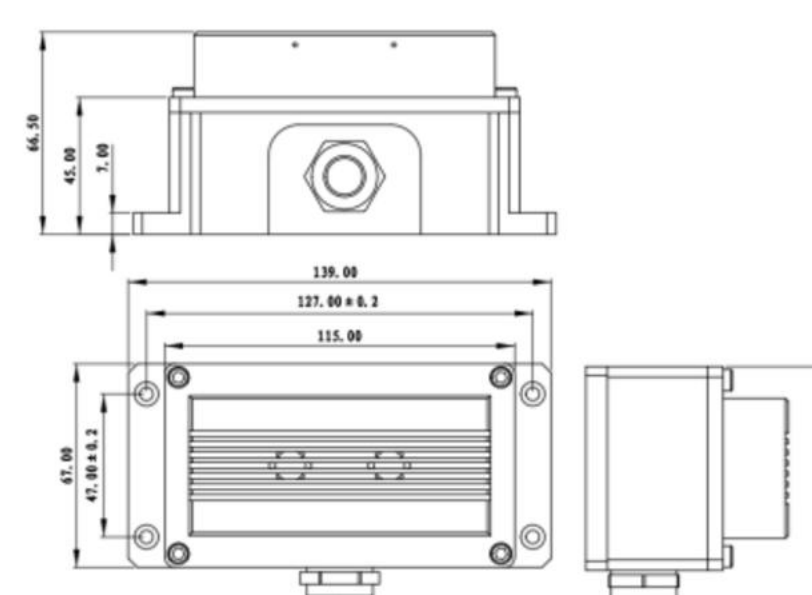
【Float-free Data Recording Capsule FFC600A】 4.4kg



【Indoor Microphone MIC600】 0.3kg



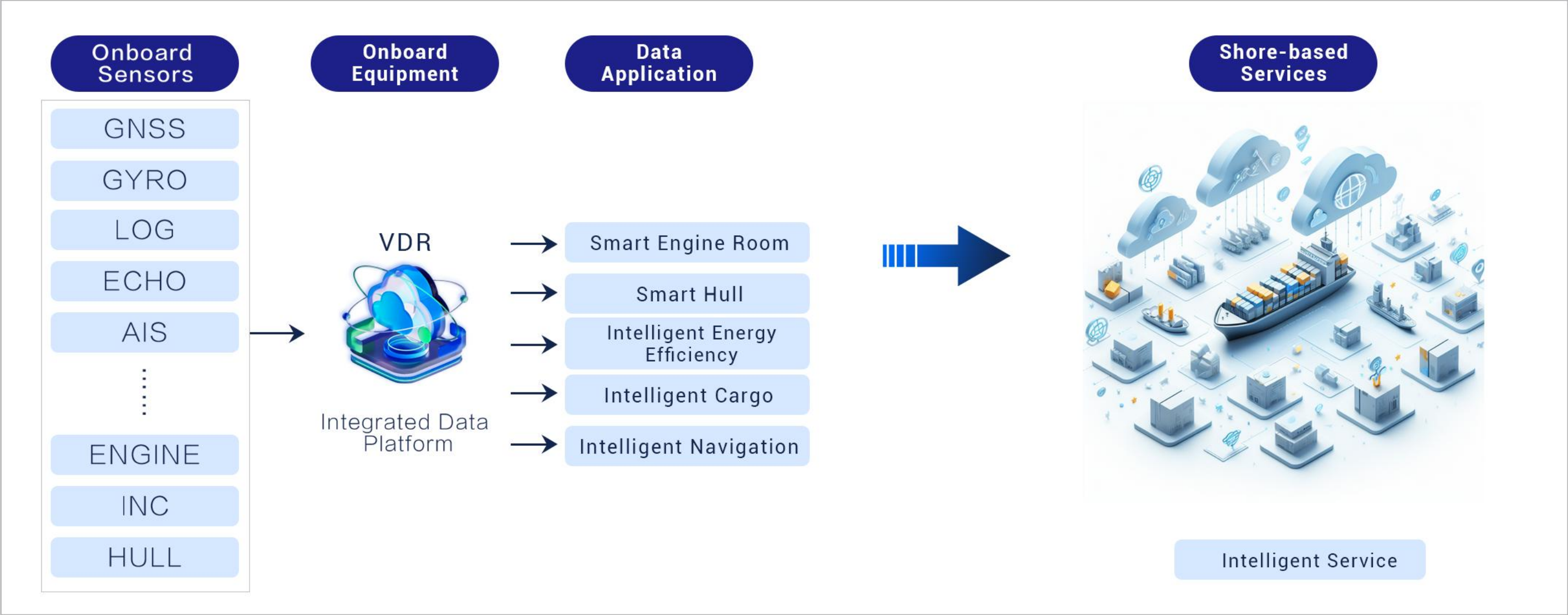
【Outdoor Microphone MIC610】 0.5kg



» Data Integration Platform

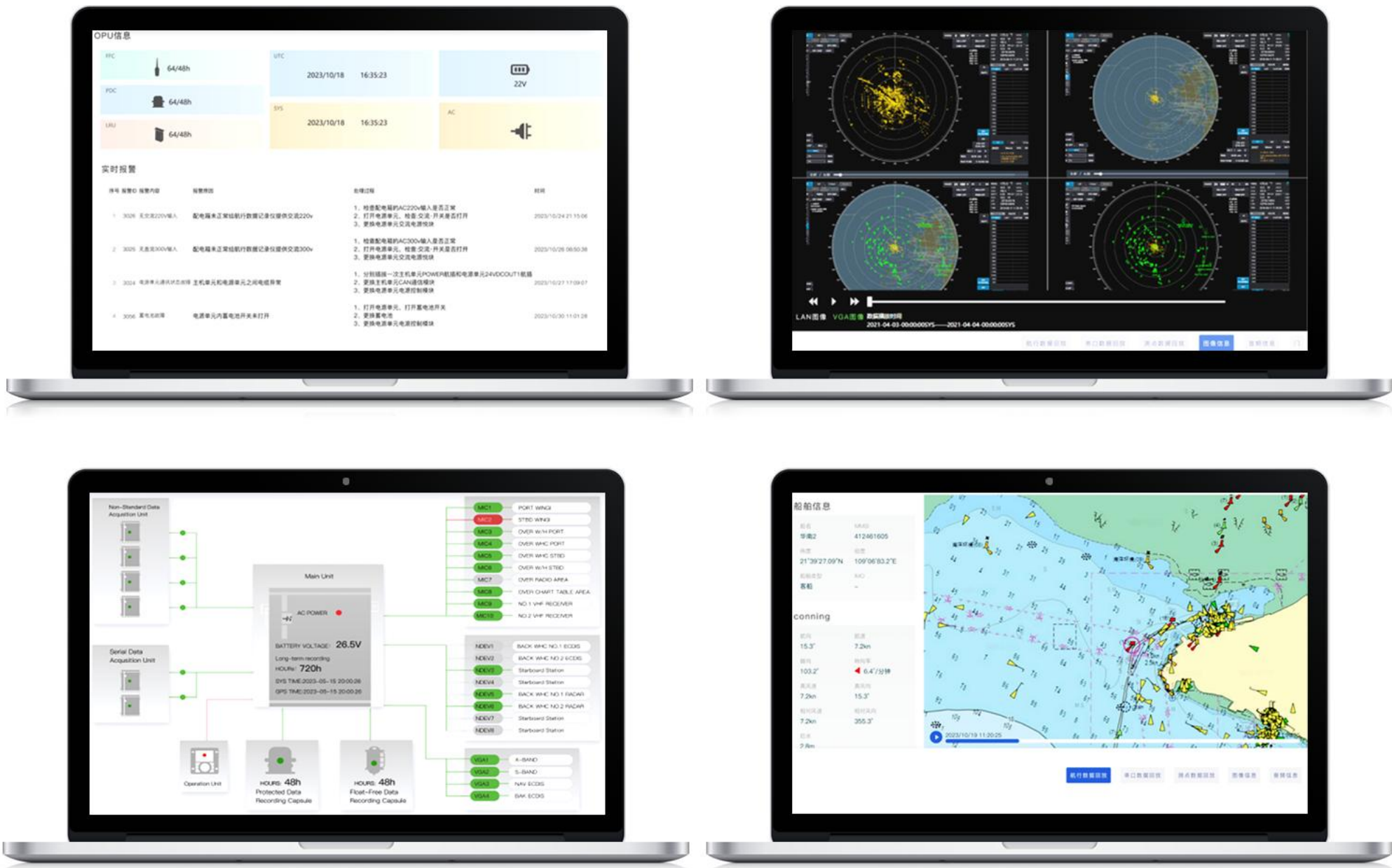
- Relies on the data function advantages of VDR, accesses more data, improves the level of informatization, and promotes intelligence.
- Reduces repeated wiring of intelligent systems and decreases construction and service costs.
- Large-capacity storage, in addition to standard fixed, floating, and long-term storage units, can provide up to 4TB of extended storage space on the ship or cloud storage space.
- Equipped with data distribution and remote data download functions to provide support for ship owners to achieve remote monitoring and data re-application.

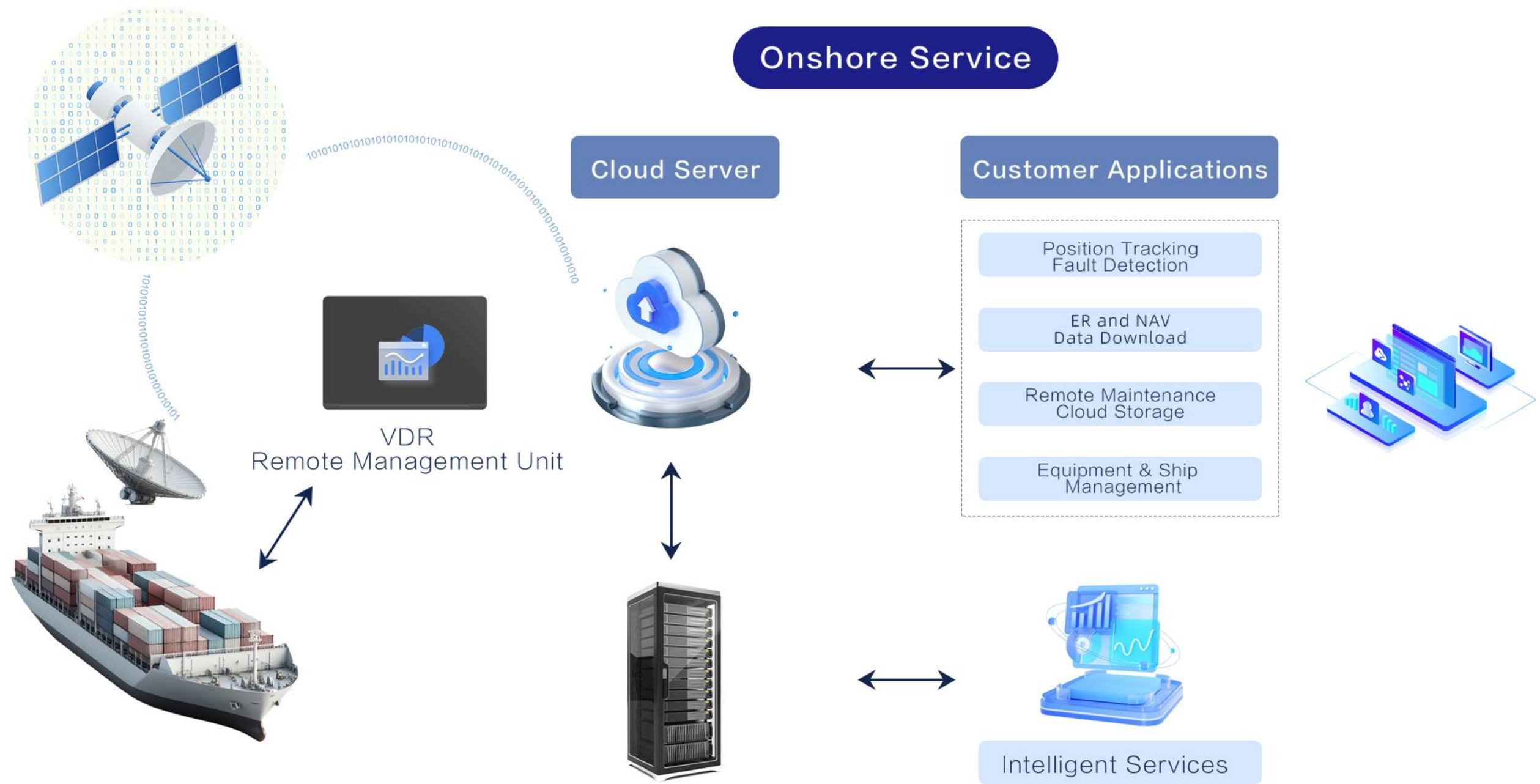
» VDR Integrated Data Platform Features



» Worry-free Navigation & Unimpeded Data

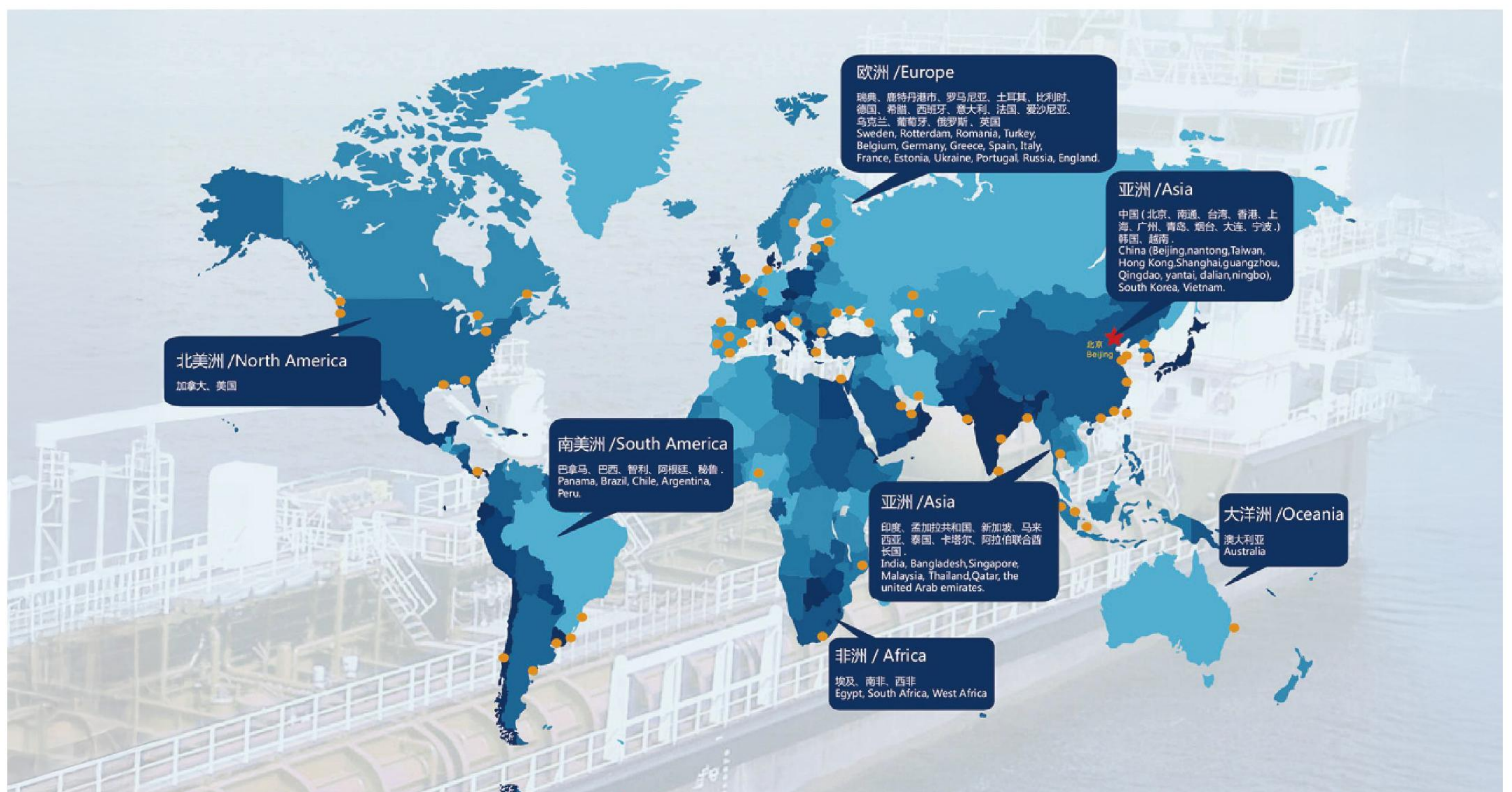
- VDR700 has remote configuration and OTA upgrade functions. Service personnel can implement remote software upgrades, provide timely technical support, and reduce service costs.
- Supports remote data download and digital automatic inspection process. VDR data can be obtained without boarding the ship,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





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