

Instaguard

User Guide

Addr: West Tower of Baidu International Building, Yuehai Sub-district, Nanshan District, Shenzhen

Official website: www.sinsegye.com

E-mail: support@sinsegye.com.cn

Hotline: (+86) 400-013-2158



Author	Sinsegye (Shenzhen) Computer System Co., Ltd.
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Email	

Update instructions:

This document has recorded the changes to Instaguard.

<November 5, 2025> / <V2.9.7>

Function	Type of change	Description	Related documents
	Refer to the following change types: <Addition> <Modification> <Optimization> <Scrap> <Deletion> <Repair> <Known Issue>	Describe the specific changes.	List related documents and provide hyperlinks.

Preface

1.Document Description

This description is specifically formulated for control and automation technology experts who are familiar with relevant national standards and have undergone professional training.

When installing and debugging components, it is essential to carefully review all relevant documents and the following instructions.

Qualified personnel shall always use the latest valid document for operations.

Responsible personnel must ensure that the application or use of the described product fully complies with all safety requirements, covering all relevant laws, regulations, guidelines, and standards.

1.1Disclaimer

This document has been carefully prepared, but given the continuous development and upgrade process of the described product, Sinsegye (Shenzhen) Computer System Co., Ltd. reserves the right to modify and update the document at any time without prior notice. Please note that any modifications to the delivered products based on the data diagrams or descriptions in this document are strictly prohibited. Sinsegye Computer System Co., Ltd. shall not be liable for any loss or damage caused by the use of or reliance on the information, whether expressed or implied, contained in this manual.

1.2Copyright

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1.3Version 1.3 Statement

The content of this manual is based on the current software version. The software may add new features or optimize operations in the future. We recommend that you visit the online documentation center (<https://help.sinsegye.com>) to view the latest instructions.

2.Safety Declaration

2.1Safety Regulations

Before using this product, please read the product manual and correctly understand the safety precautions. Failure to comply with the safety precautions may result in personal injury or death or equipment damage.

2.2Disclaimer

All components are provided with both hardware and software configurations. Modifications to hardware or software configurations beyond the described in the document are not permitted. Sinsegye is not responsible for hardware or software not covered in the document.

2.3Personnel Qualifications

This manual is used only for control, automation, and drive technology experts who are familiar with applicable national standards and have undergone training.

2.4Safety Statement

The “Danger”, “Warning”, “Caution” and “Alert” in the manual do not represent all the safety precautions to be observed and are only used as a supplement to all safety precautions.

	“DANGER” indicates an imminent hazardous situation that, if not avoided, will result in serious injury or death.
	“WARNING” indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death.
	“Caution” indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury or damage to the equipment.
	“Notice” indicates a potentially hazardous situation that, if not avoided, may only result in damage to the equipment.

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I .Overview

Intelligent Care Diagnostic System of Instaguard Device

Intelligent Care Diagnostic System of Instaguard Device is an industrial digital and intelligent monitoring and management tool integrating care, diagnosis and management. Holographic data access integration is completed through multidimensional data access IoT Hub, AI intelligent prediction and accurate fault positioning are completed by using Metafactory of pre-training large model and industrial knowledge atlas, and finally, various data protocols are provided for client system and Instaguard front-end display system through Fastkit to achieve fusion and presentation. It provides data overview, real-time Kanban, unit account, device file, diagnosis atlas, abnormal diagnosis history, care report, organization device tree and other functions for customers. The customers can master the device operation state at any time and anywhere, timely find out the device abnormality and fault reasons, reduce the risk and loss of accidental shutdown, and improve the production efficiency and management efficiency.

Instaguard adopts the micro-service architecture mode, which is divided into multiple micro-services according to the system function module and data processing flow, and realizes self-selection service of functions for users. It integrates lightweight container technology to realize unified deployment of micro-services, resource scheduling optimization, automatic CI/CD, and user-transparent upgrades.

Instaguard platform storage adopts the mixed architecture mode of relational database, NoSQL and file system to realize multi-source heterogeneous data storage of structured data, unstructured data and semi-structured data. It provides Web and various data output protocols for users. The system supports multi-dimensional data input through MQTT, message queue subscription and push, RESTful API, etc. At the same time, it supports multiple protocol data output such as standard cloud API and OPC SERVER interface, and can package and integrate the system functions into the user-specified platform.

The following table provides an overview of each product components of Instaguard.

Product Components	Description
Large screen for intelligent care	It supports multi-dimensional unit data visualization, early warning notification integration and organization-level health statistics, and realizes rapid insight and decision support for device operation and maintenance.
Process overview	It supports real-time data integration and interactive status presentation of upstream and downstream processes of device, and enables visualization and data drive of process optimization and operation and maintenance decision.
Intelligent unit care	It supports the realization of panoramic visualization of unit health status through intelligent Kanban, and forms a full-chain operation and maintenance view covering "Unit-device-measuring point" in combination with hierarchical management of unit and device account, enabling device health assessment, fault diagnosis and operation optimization decision.
Intelligent unit diagnosis	It supports the in-depth diagnosis of device status through multi-view atlas analysis, and forms a closed-loop operation and maintenance system covering "data insight-abnormal early warning-report generation-hardware linkage" in combination with abnormal history tracking, AI/manual diagnosis report management and IOT hardware status monitoring, improving the efficiency of device health assessment and the accuracy of decision-making.
Intelligent statement management	It supports operation duration statistics of device, fault early warning monitoring, energy consumption efficiency analysis and organization-level data aggregation, supports user-defined query conditions and data export, and helps to optimize operation and maintenance decision and improve business efficiency.
System management	It supports organization tree structure adjustment, user life cycle management, dynamic role authority allocation and message push strategy customization, and realizes safe and compliant access to platform resources and efficient access to

	business information.
--	-----------------------

The following table provides an overview of each product component of the IOTHub

Product Components	Description
IOTHub	It supports rapid device access through standardized coding rules, has core capabilities such as device binding/unbinding, parameter configuration, collection strategy issuing, etc., supports device status monitoring, data link maintenance and multi-protocol adaptation, and establishes a strict device deletion protection mechanism to ensure data integrity.
Configuration management	It supports the full life cycle operation and multi-dimensional measuring point configuration of the unit, realizes multi-condition measuring point retrieval based on IOT number, hardware type and organizational structure, and ensures accurate association and dynamic maintenance of device parameters and business data.
Algorithm management	It supports the creation, version control, unit binding and engineering deployment of multi-type algorithms, realizes the dynamic association between algorithm flow and unit-level business scenarios, and has the functions of task execution monitoring, log tracing, closed-loop management of input and output data, and ensures the efficient implementation and accurate operation of algorithm models from R&D to industrial site.
Development access management	It supports the full life cycle management of the liaison party, interface resource allocation and device data routing configuration, realizes API-based customized data interaction, call frequency control and operation audit, and ensures the efficient and safe integration of the external system and the intelligent diagnosis platform.
Dictionary management	It supports the standardized definition and dynamic maintenance of core data such as bearing parameters, acquisition strategies and product attributes, realizes flexible configuration of extensible attribute library through dictionary

	management, realizes unified modeling and reuse of device types, measuring point configuration and early warning rules in combination with the template design of unit and device model library, and ensures the consistency and efficient management of the full life cycle data of device.
Account management	It supports user life cycle operation, refined role permission allocation and dynamic maintenance at department level, realizes compliance access and control of system resources and flexible expansion of organizational structure, and ensures operation security and collaboration efficiency of the platform.

II .Instaguard & IOTHub

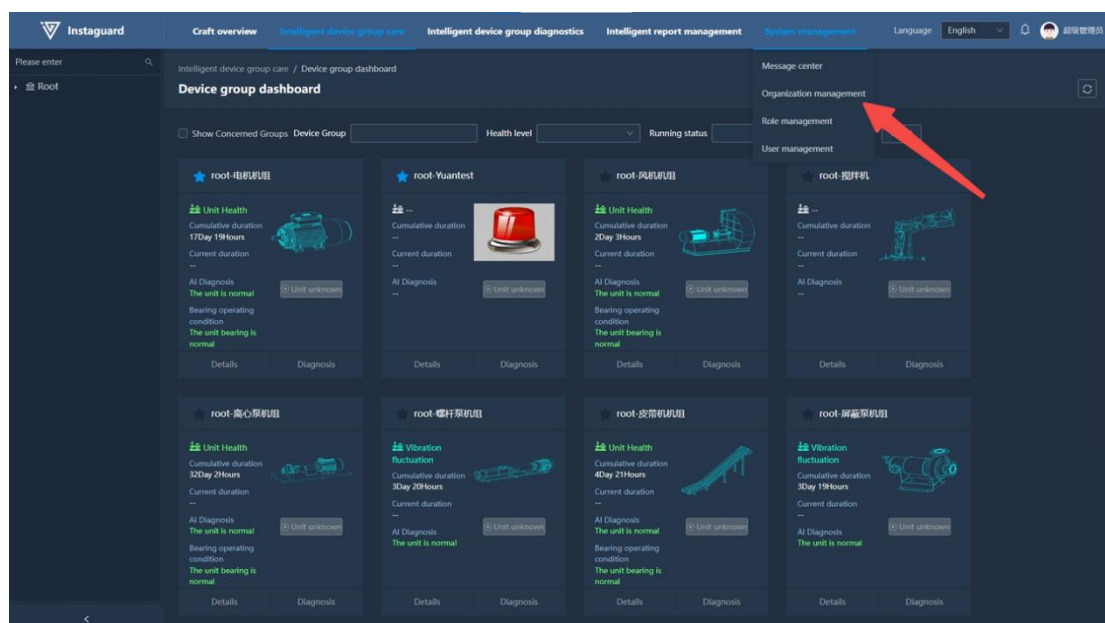
1.Quick Operation Guide

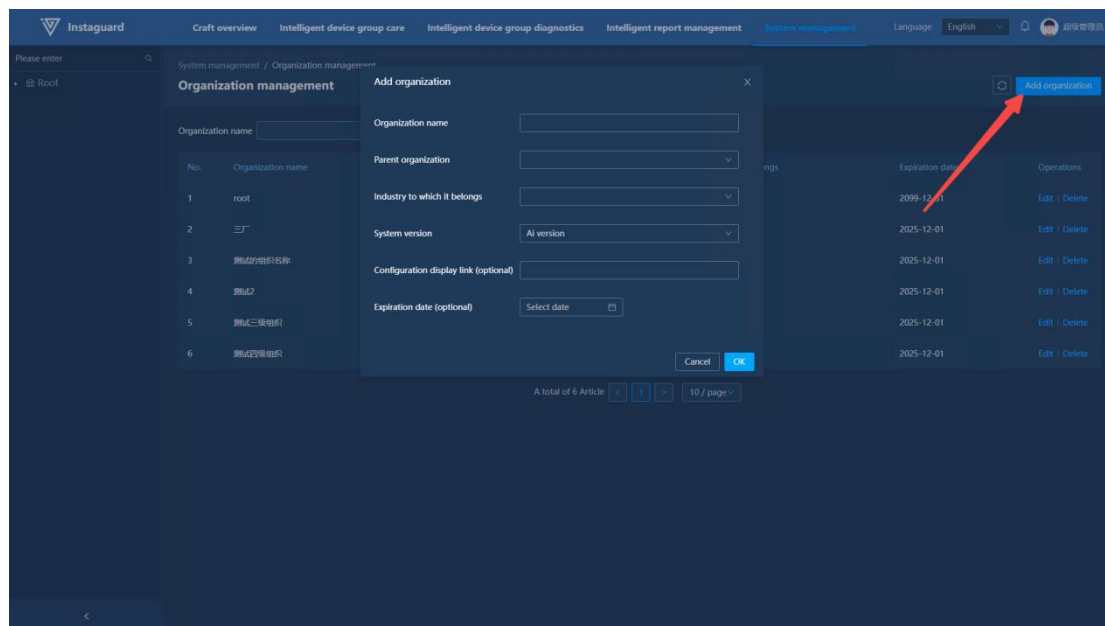
1.1Instaguard Quick Operation Guide

System Login

- Public Cloud: <https://www.instaguard.com.cn/>
- Private Cloud: Project-specific address (similar to 192.168.111.174:20031)

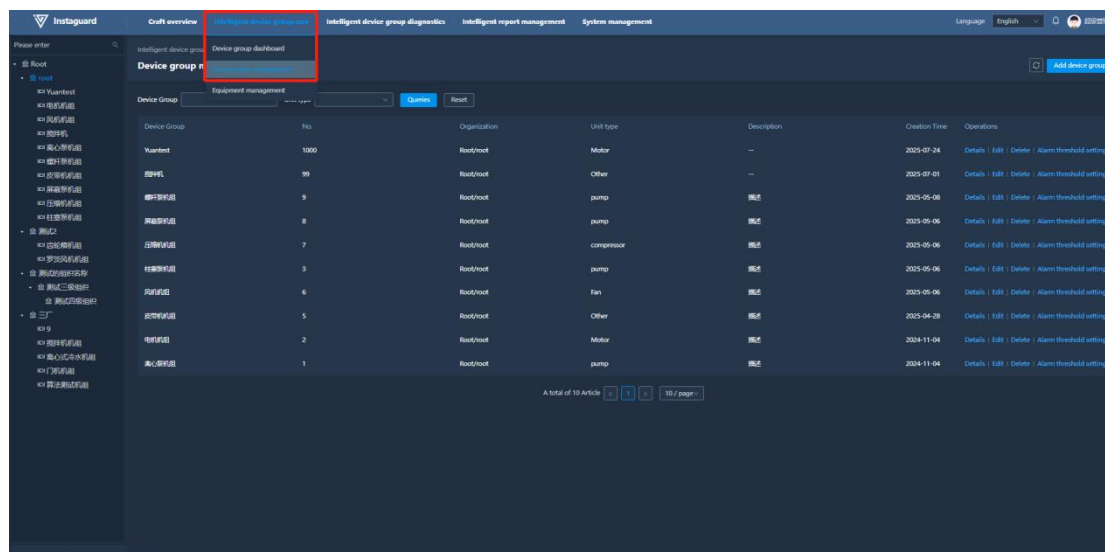
Add Organization





Generally, the expiration date is not selected. If there are contract restrictions, fill it in according to the time specified in the contract.

Add Unit



Add Device

Instaguard

Craft overview **Intelligent device group care** Intelligent device group diagnostics Intelligent report management System management

Language English

Intelligent device group dashboard

Equipment management

Device name Device Group Device Type [Queries](#) [Reset](#) [Adding equipment](#)

Device name	Device Group	No.	Organization	Device Type	Installation Date	Creation Time	Operations
Motor	Yuanfeng	1000	Rootroot	AC fixed frequency motor	--	2025-07-24 16:45:42	Details Edit Delete
77	搅拌机	99	Rootroot	Blender	--	2025-07-02 12:50:56	Details Edit Delete
3	搅拌机	99	Rootroot	Blender	--	2025-07-01 16:10:41	Details Edit Delete
离心泵	离心泵机组	1	Rootroot	centrifugal pump	--	2025-06-26 10:52:48	Details Edit Delete
螺杆泵	螺杆泵机组	9	Rootroot	screw pump	2025-05-29	2025-05-08 10:51:18	Details Edit Delete
屏蔽泵	屏蔽泵机组	8	Rootroot	Shield pump	2025-05-29	2025-05-06 16:43:18	Details Edit Delete
螺杆压缩机	螺杆压缩机	7	Rootroot	Screw compressor	2025-05-29	2025-05-06 11:30:04	Details Edit Delete
柱塞泵	柱塞泵机组	3	Rootroot	Plunger pump	2025-05-29	2025-05-06 15:22:19	Details Edit Delete
离心风机	离心风机	6	Rootroot	Centrifugal fan	2025-05-29	2025-05-06 11:48:00	Details Edit Delete
皮带机	皮带机	5	Rootroot	Driving drum	2025-05-29	2025-04-28 20:22:32	Details Edit Delete

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Instaguard

Craft overview **Intelligent device group care** Intelligent device group diagnostics Intelligent report management System management

Language English

Intelligent device group care / Equipment management

Equipment management

Device name Device Group Device Type [Queries](#) [Reset](#) [Adding equipment](#)

Device name	Device Group	No.	Organization	Device Type	Installation Date	Creation Time	Operations
Motor	Yuanfeng	1000	Rootroot	AC fixed frequency motor	--	2025-07-24 16:45:42	Details Edit Delete
77	搅拌机	99	Rootroot	Blender	--	2025-07-02 12:50:56	Details Edit Delete
3	搅拌机	99	Rootroot	Blender	--	2025-07-01 16:10:41	Details Edit Delete
离心泵	离心泵机组	1	Rootroot	centrifugal pump	--	2025-06-26 10:52:48	Details Edit Delete
螺杆泵	螺杆泵机组	9	Rootroot	screw pump	2025-05-29	2025-05-08 10:51:18	Details Edit Delete
屏蔽泵	屏蔽泵机组	8	Rootroot	Shield pump	2025-05-29	2025-05-06 16:43:18	Details Edit Delete
螺杆压缩机	螺杆压缩机	7	Rootroot	Screw compressor	2025-05-29	2025-05-06 11:30:04	Details Edit Delete
柱塞泵	柱塞泵机组	3	Rootroot	Plunger pump	2025-05-29	2025-05-06 15:22:19	Details Edit Delete
离心风机	离心风机	6	Rootroot	Centrifugal fan	2025-05-29	2025-05-06 11:48:00	Details Edit Delete
皮带机	皮带机	5	Rootroot	Driving drum	2025-05-29	2025-04-28 20:22:32	Details Edit Delete

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Instaguard

Craft overview **Intelligent device group care** Intelligent device group diagnostics Intelligent report management System management

Language English

Intelligent device group care / Equipment management / Adding equipment

<Adding equipment

Basic information

Device name Organization

Device Group Device location number

Device Type Device group role

Asset number (optional) Installation Date (optional)

Bearing model (optional) Equipment description (optional)

Headerplate information

[Cancel](#) [Confirm](#)

For the unit role, fill in the drive device. Transmission devices, driven devices, and motors belong to drive devices; water pumps and fans belong to driven devices;

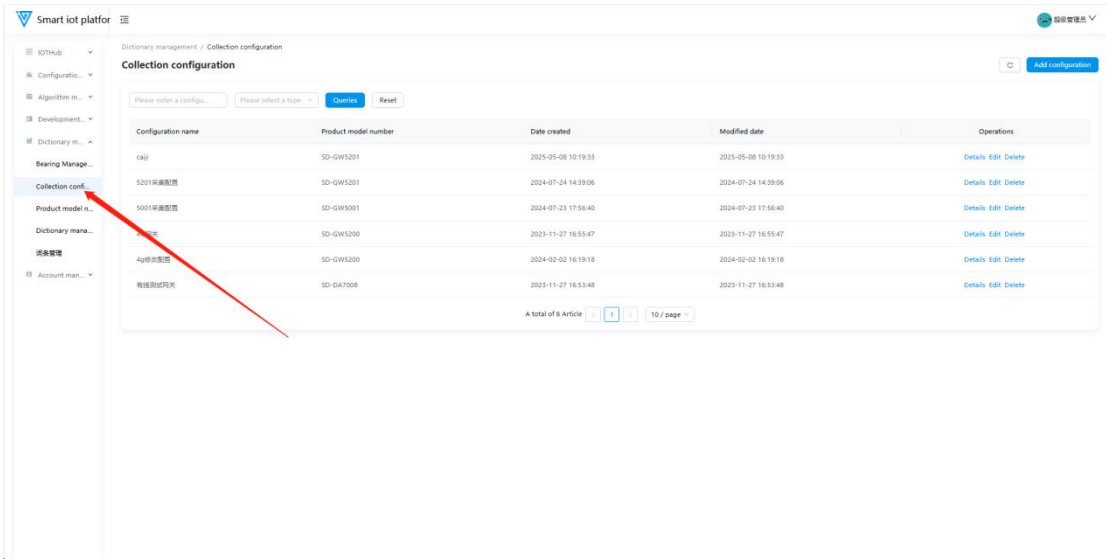
gearboxes belong to transmission devices.

1.2Iothub Quick Operation Guide

System Login

- Public Cloud: <https://iothub.instaguard.com.cn/>
- Private Cloud: Project-specific address (similar to 192.168.111.174:20021)

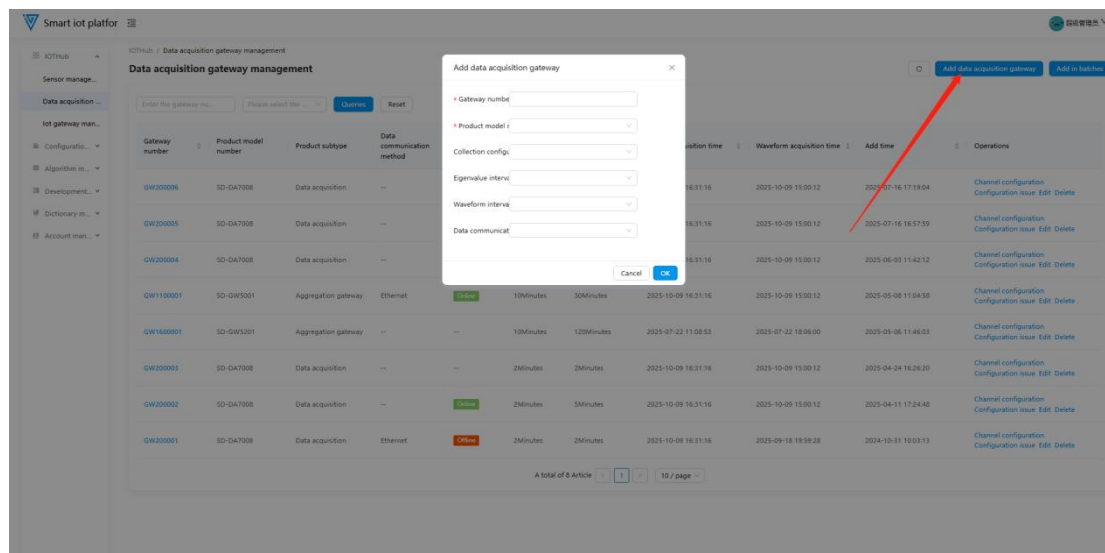
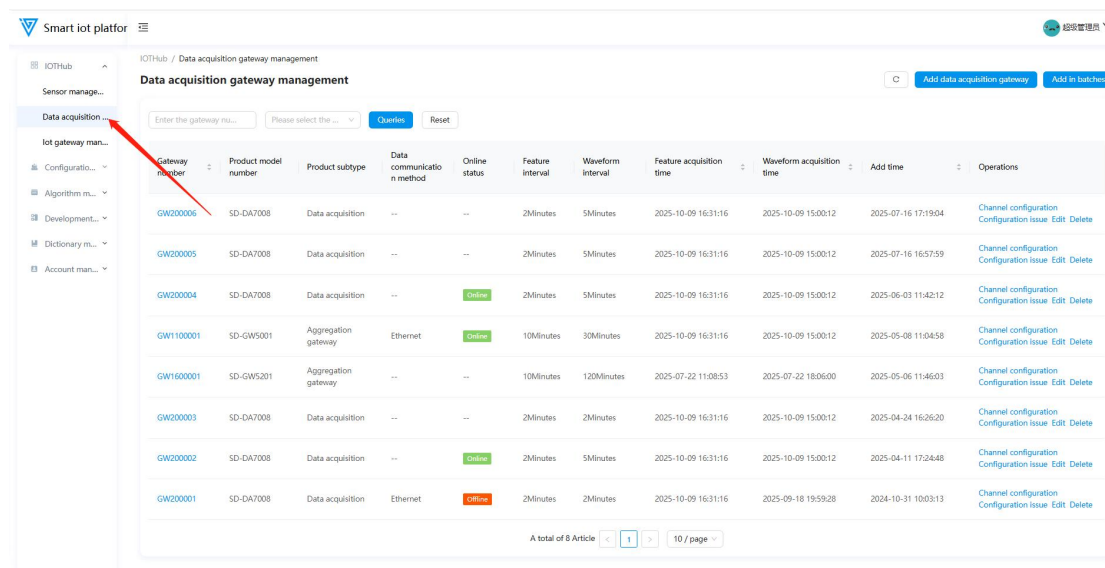
Acquisition Configuration



Adding Data Acquisition Gateways

The product number of the data acquisition gateway starts with "GW" and is 8 digits long. The first two digits are fixed as "GW", the middle one digit indicates the gateway type, and the last five digits are the unique serial number. The correspondence between gateway products and serial numbers is as follows:

Product Model	Gateway Number	Product Type
SD-DA7008	GW2XXXXX	8-Channel Vibration Collector
SD-DA7016	GW2XXXXX	16-Channel Vibration Collector
SD-DA7024	GW2XXXXX	24-Channel Vibration Collector
SD-GW5001/5101	GW11XXXXX GW12XXXXX GW13XXXXX GW14XXXXX GW15XXXXX	Vibration Gateway
SD-GW5200/5201	GW16XXXXX GW17XXXXX GW18XXXXX GW19XXXXX	4G Virtual Gateway



Adding Sensors

When adding sensors, note that the sensor serial number starts with "SN" and is 10 digits long. The middle two digits represent the monitoring type, and the last six digits are the unique serial number. The correspondence between sensor product models and serial numbers is as follows:

Product Model	Serial Number	Product Type	Product Characteristics
SD-V3012-100	SN11XXXXXX	Single-Axis Wired Acceleration Sensor	100mg

SD-V3012-500	SN11XXXXXX	Single-Axis Wired Acceleration Sensor	500mg
SD-V3207-ZG	SN12XXXXXX	Tri-Axis Wireless Zigbee Acceleration Sensor	10k
SD-V3207-4G	SN13XXXXXX	Tri-Axis Wireless 4G-Cat1 Acceleration Sensor	10k, 4G-Cat1

Smart iot platform

IOTHub / Sensor management

Sensor management

Enter the sensor num... Please select the... Query Reset Advanced filtering

Sensor number	Product model number	Product subtype	Comm Status	Data status	Unit binding status	Binding organiza...	Bind group...	Unit binding time	Feature interval	Waveform interval	Feature acquisition time	Waveform acquisition time	Operations
SN11000023	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/root	皮带输送机	2025-07-01 15:00:36	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-20 16:31:16	Gateway unbinding Delete
SN11000012	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/root	风机前组	2025-07-16 17:01:12	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-20 16:31:16	Gateway unbinding Delete
SN11000017	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/root	风机前组	2025-07-16 17:00:02	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-20 16:31:16	Gateway unbinding Delete
SN11000043	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/root	风机前组	2025-07-16 17:23:50	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 16:31:16	Gateway unbinding Delete
SN11000019	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/root	风机前组	2025-07-16 16:50:19	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 16:31:16	Gateway unbinding Delete
SN11000030	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/工厂	露天带式输送机	2025-07-15 13:59:25	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-09 16:31:16	Gateway unbinding Delete
SN11000025	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/工厂	磨煤机前组	2025-07-07 14:36:24	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-20 16:31:16	Gateway unbinding Delete
SN11000045	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/工厂	离心式冷水机组	2025-07-31 14:58:46	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 16:31:16	Gateway unbinding Delete
SN16000001	SD-V7001	wired RPM sensor	Normal	Normal data	Unbound	--	--	--	--	--	2025-05-20 19:58:51	--	Gateway unbinding Delete

Smart iot platform

IOTHub / Sensor management

Sensor management

Enter the sensor num... Please select the... Query Add sensor Add in batches

Add sensor

* Sensor number:

* Product model:

Cancel OK

Sensor number	Product model number	Product subtype	Comm Status	Data status	Unit binding status	Binding organiza...	Bind group...	Unit binding time	Feature interval	Waveform interval	Feature acquisition time	Waveform acquisition time	Operations
SN11000023	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/root	皮带输送机	2025-07-01 15:00:36	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-20 16:31:16	Gateway unbinding Delete
SN11000012	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/root	风机前组	2025-07-16 17:01:12	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-20 16:31:16	Gateway unbinding Delete
SN11000017	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/root	风机前组	2025-07-16 17:00:02	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-20 16:31:16	Gateway unbinding Delete
SN11000043	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/root	风机前组	2025-07-16 17:23:50	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 16:31:16	Gateway unbinding Delete
SN11000019	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/root	风机前组	2025-07-16 16:50:19	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 16:31:16	Gateway unbinding Delete
SN11000030	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/工厂	露天带式输送机	2025-07-15 13:59:25	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-09 16:31:16	Gateway unbinding Delete
SN11000025	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/工厂	磨煤机前组	2025-07-07 14:36:24	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-20 16:31:16	Gateway unbinding Delete
SN11000045	SD-V3012-100	wired vibration sensor	Normal	Normal data	Bound	Root/工厂	离心式冷水机组	2025-07-31 14:58:46	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 16:31:16	Gateway unbinding Delete
SN16000001	SD-V7001	wired RPM sensor	Normal	Normal data	Unbound	--	--	--	--	--	2025-05-20 19:58:51	--	Gateway unbinding Delete

Channel Configuration

Smart iot platfor

IoTHub / Data acquisition gateway management

Sensor manage...

Data acquisition...

IoT gateway man...

Configuration...

Algorithm m...

Development...

Dictionary m...

Account man...

Data acquisition gateway management

Enter the gateway nu... Please select the ... Queries Reset

Gateway number	Product model number	Product subtype	Data communication method	Online status	Feature interval	Waveform interval	Feature acquisition time	Waveform acquisition time	Add time	Operations
GW200006	SD-DA7008	Data acquisition	--	--	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:19:04	Channel configuration Configuration issue Edit Delete
GW200005	SD-DA7008	Data acquisition	--	--	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 16:57:59	Channel configuration Configuration issue Edit Delete
GW200004	SD-DA7008	Data acquisition	--	Online	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-06-03 11:42:12	Channel configuration Configuration issue Edit Delete
GW1100001	SD-GW5001	Aggregation gateway	Ethernet	Online	10Minutes	30Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-05-08 11:04:58	Channel configuration Configuration issue Edit Delete
GW1600001	SD-GW5201	Aggregation gateway	--	--	10Minutes	120Minutes	2025-07-22 11:08:53	2025-07-22 18:06:00	2025-05-06 11:46:03	Channel configuration Configuration issue Edit Delete
GW200003	SD-DA7008	Data acquisition	--	--	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-24 16:26:20	Channel configuration Configuration issue Edit Delete
GW200002	SD-DA7008	Data acquisition	--	Online	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-11 17:24:48	Channel configuration Configuration issue Edit Delete
GW200001	SD-DA7008	Data acquisition	Ethernet	Offline	2Minutes	2Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2024-10-31 10:03:13	Channel configuration Configuration issue Edit Delete

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Smart iot platfor

IoTHub / Data acquisition gateway management

Sensor manage...

Data acquisition...

IoT gateway man...

Configuration...

Algorithm m...

Development...

Dictionary m...

Account man...

Data acquisition gateway management

Enter the gateway nu... Please select the ...

Gateway number	Product model number	Product subtype
GW200006	SD-DA7008	Data acquisition
GW200005	SD-DA7008	Data acquisition
GW200004	SD-DA7008	Data acquisition
GW1100001	SD-GW5001	Aggregation gateway
GW1600001	SD-GW5201	Aggregation gateway
GW200003	SD-DA7008	Data acquisition
GW200002	SD-DA7008	Data acquisition
GW200001	SD-DA7008	Data acquisition

A total of 8 Article < 1 > 10 / page

Sensor configuration

Data acquisition gateway number: GW200006 Product model number: SD-DA7008

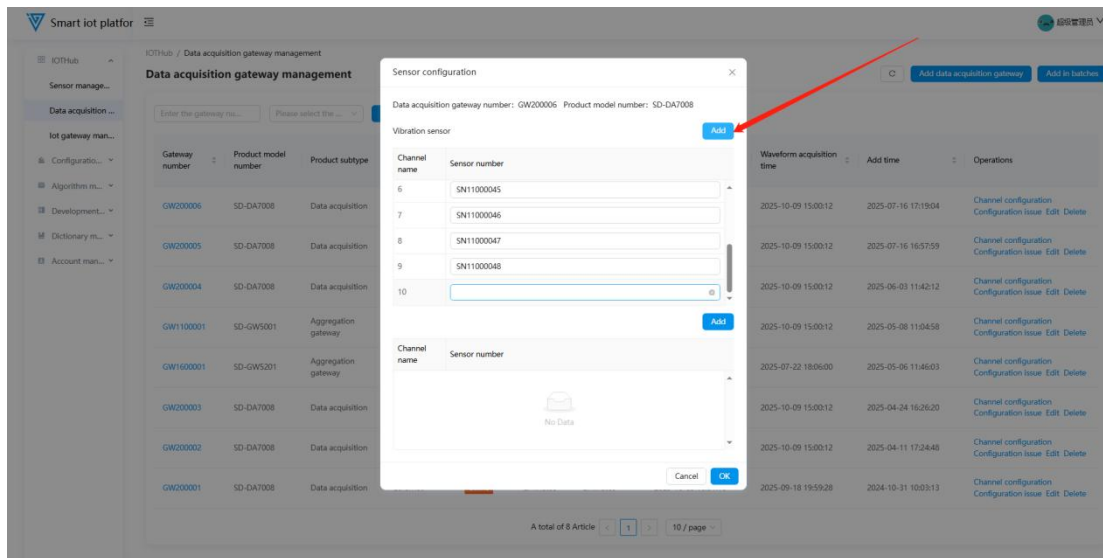
Vibration sensor

Channel name	Sensor number
1	SN11000040
2	SN11000041
3	SN11000042
4	SN11000043
5	SN11000044

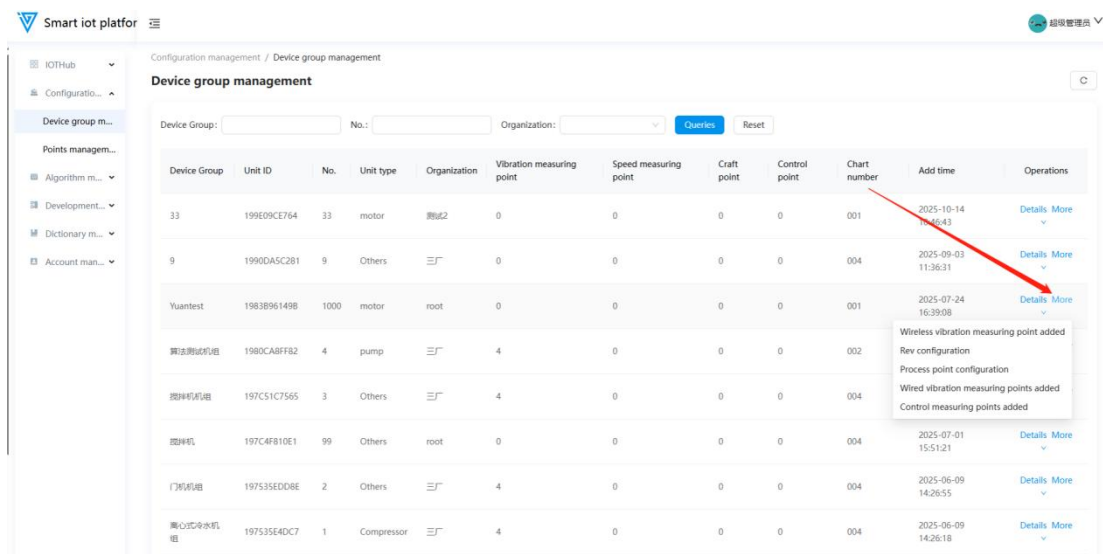
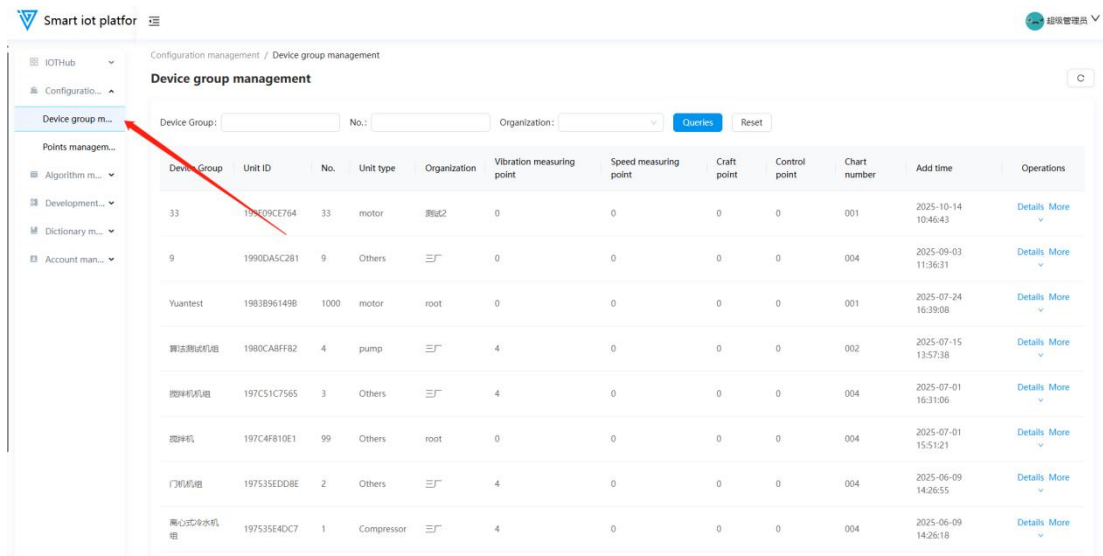
No Data

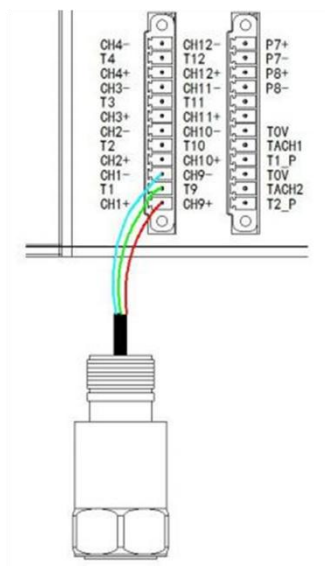
Cancel OK

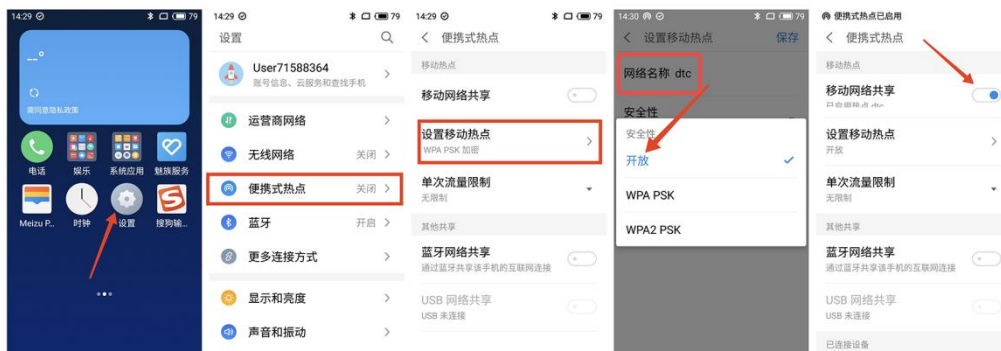
Waveform acquisition time	Add time	Operations
2025-10-09 15:00:12	2025-07-16 17:19:04	Channel configuration Configuration issue Edit Delete
2025-10-09 15:00:12	2025-07-16 16:57:59	Channel configuration Configuration issue Edit Delete
2025-10-09 15:00:12	2025-06-03 11:42:12	Channel configuration Configuration issue Edit Delete
2025-10-09 15:00:12	2025-05-08 11:04:58	Channel configuration Configuration issue Edit Delete
2025-07-22 18:06:00	2025-05-06 11:46:03	Channel configuration Configuration issue Edit Delete
2025-10-09 15:00:12	2025-04-24 16:26:20	Channel configuration Configuration issue Edit Delete
2025-10-09 15:00:12	2025-04-11 17:24:48	Channel configuration Configuration issue Edit Delete
2025-09-18 19:59:28	2024-10-31 10:03:13	Channel configuration Configuration issue Edit Delete

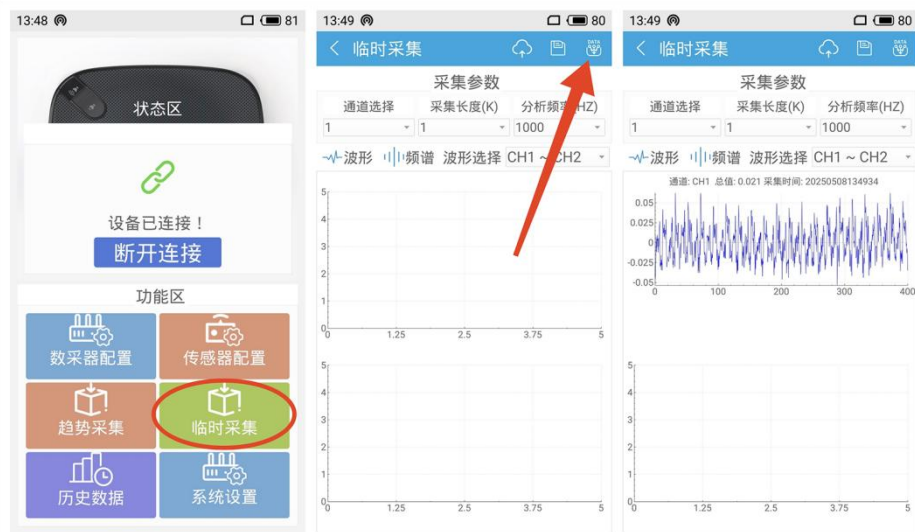


Add Measuring Point





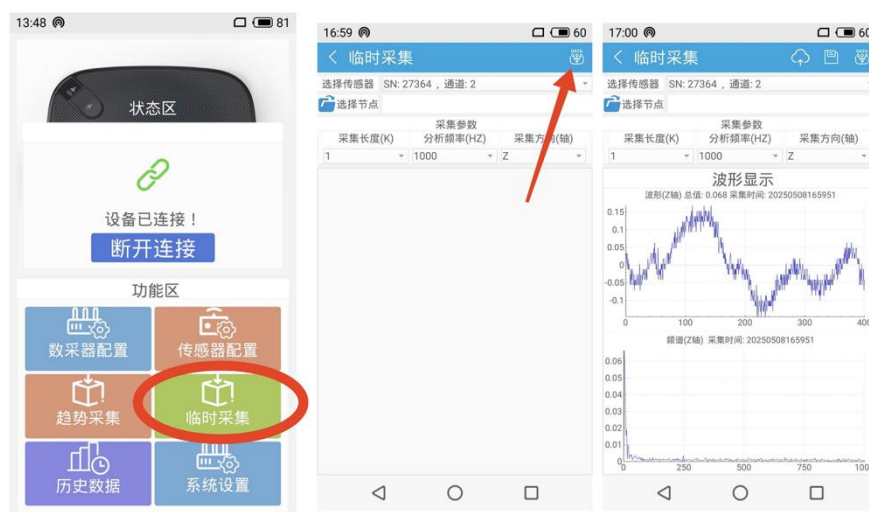
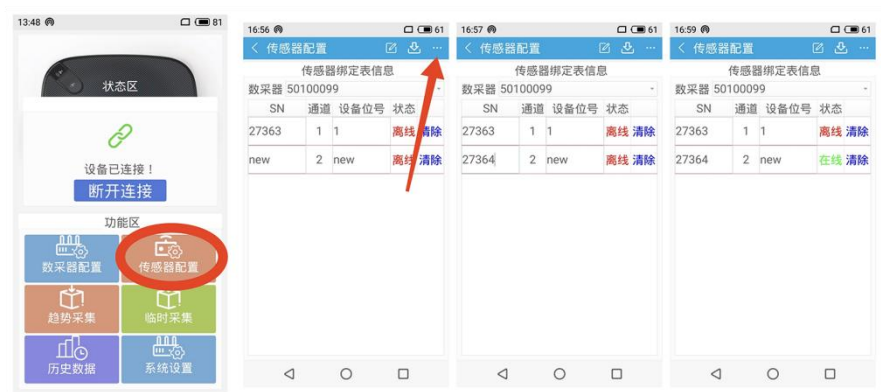




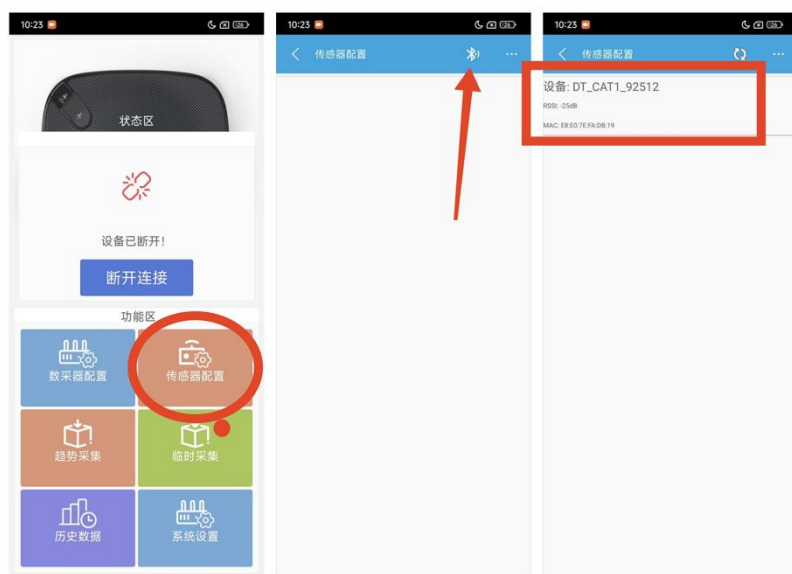
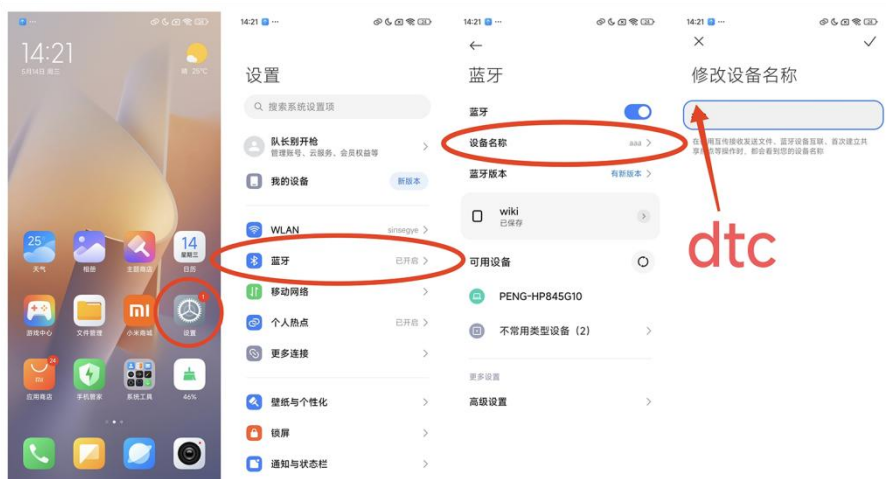
1.4 Using APP to Configure SD-GW5000 Series Parameters and Acquisition

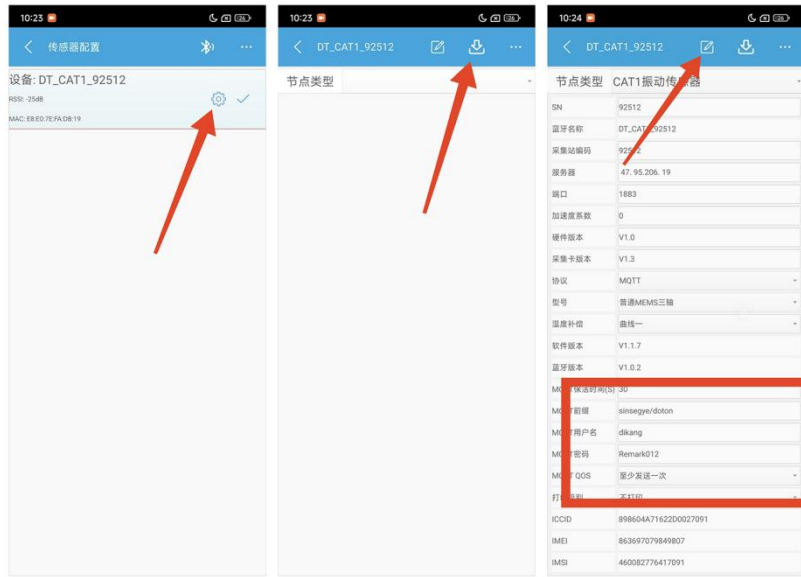






1.5 Using APP to Configure Wireless Sensor SD-V3207-4G Series Parameters and Acquisition



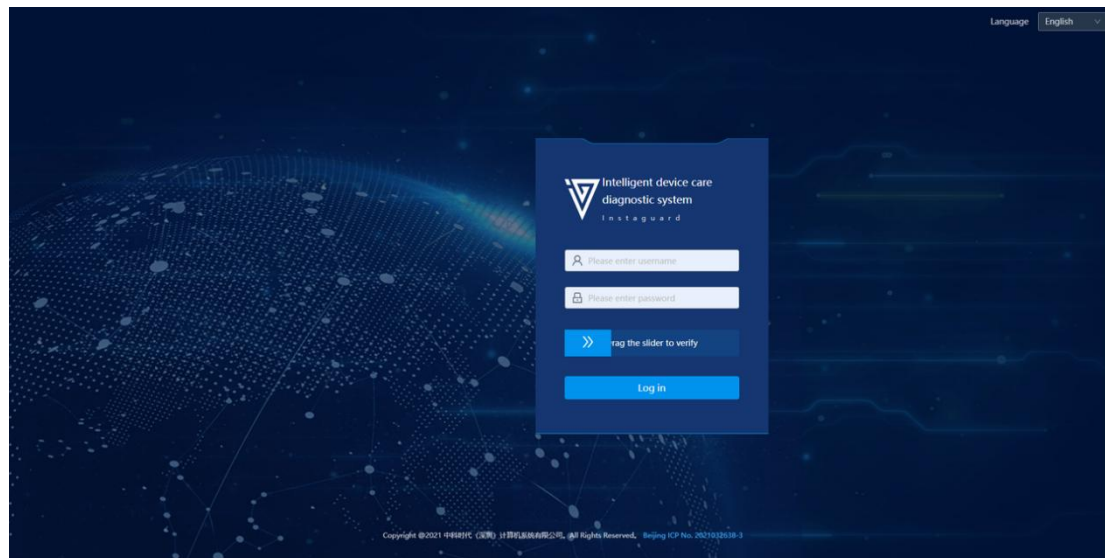


2.Instaguard Functions

2.1Login Page

2.1.1Function Overview

This interface serves as the login entry for the Intelligent Device Care Diagnostic System. It realizes user identity verification through a simple interface design to ensure the security of device operations and data management.



2.1.2Operation Process

Accessing the System

Access via a display with a resolution $\geq 1920 \times 1080$ and a Google kernel browser (version ≥ 92):

Industrial intelligent computer IP address: 20031 (e.g., 192.168.111.174:20031)

Identity Verification

Step 1: Enter the employee number/registered account in the "Username" input field.

Step 2: Enter the corresponding password in the "Password" input field (password is hidden by default).

Step 3: Drag the blue slider for verification.

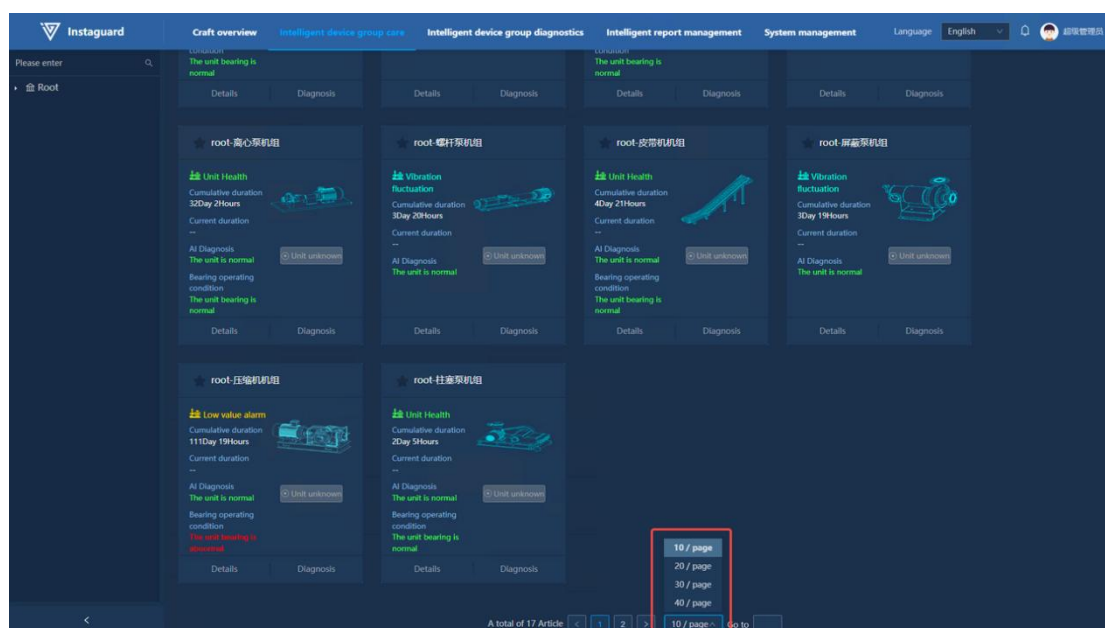
Step 4: Click the blue "Login" button.

2.2Auxiliary Functions (General)

2.2.1Pagination Control

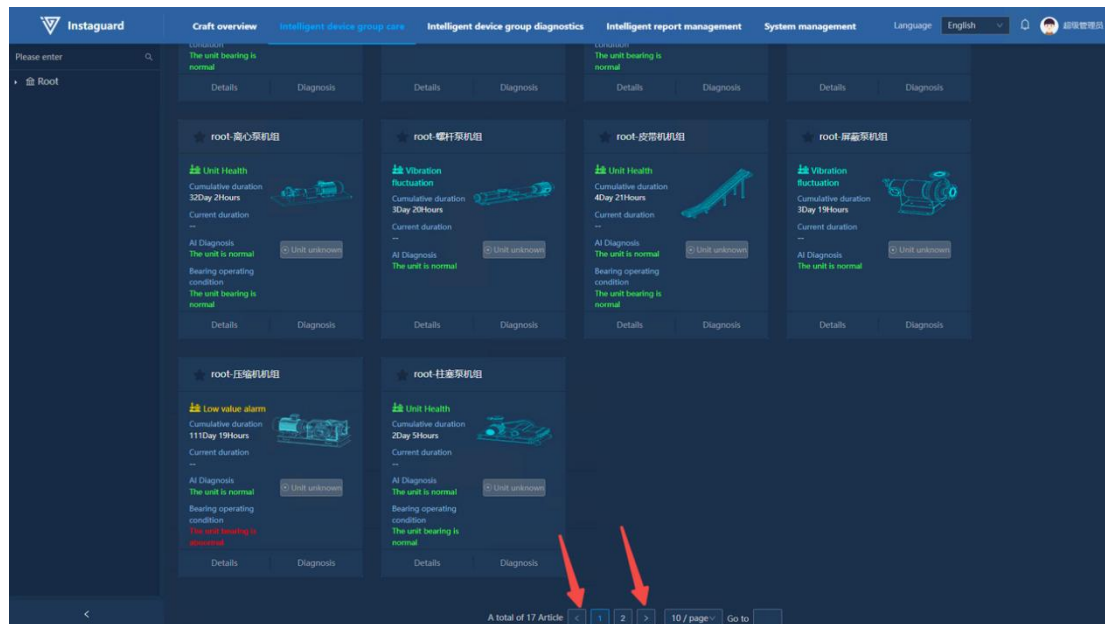
Pagination Capacity

Switchable to display 10/20/30/40 pieces of information per page.

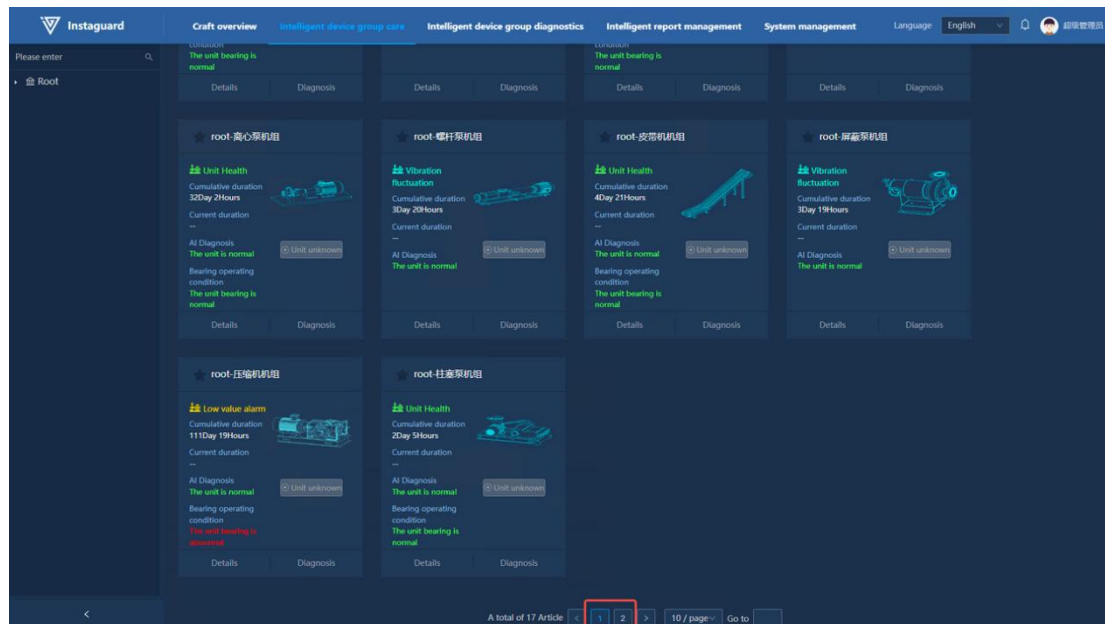


Page Navigation

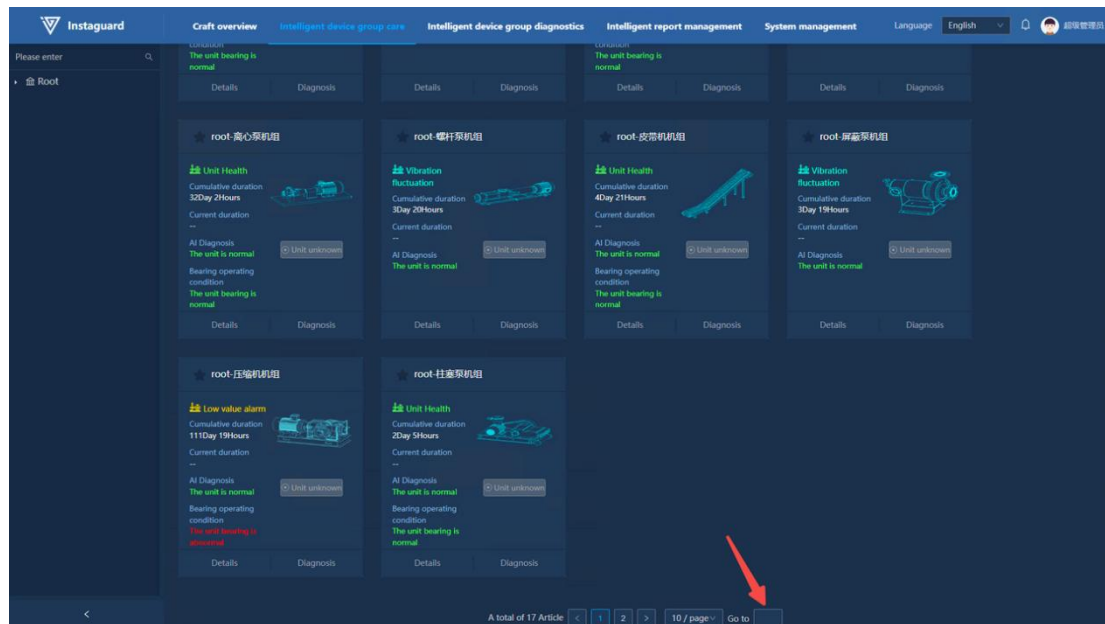
- Click the "<" ">" buttons to navigate between pages.



- Click the page number you want to go to for direct jumping.

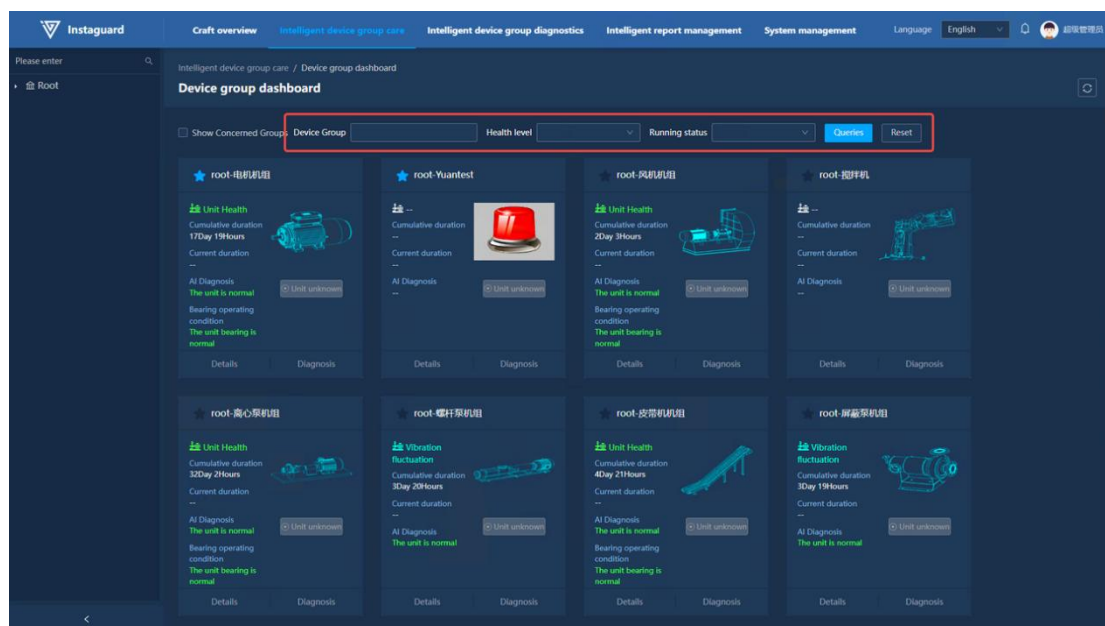


- Enter the target page number in the input field for jumping.

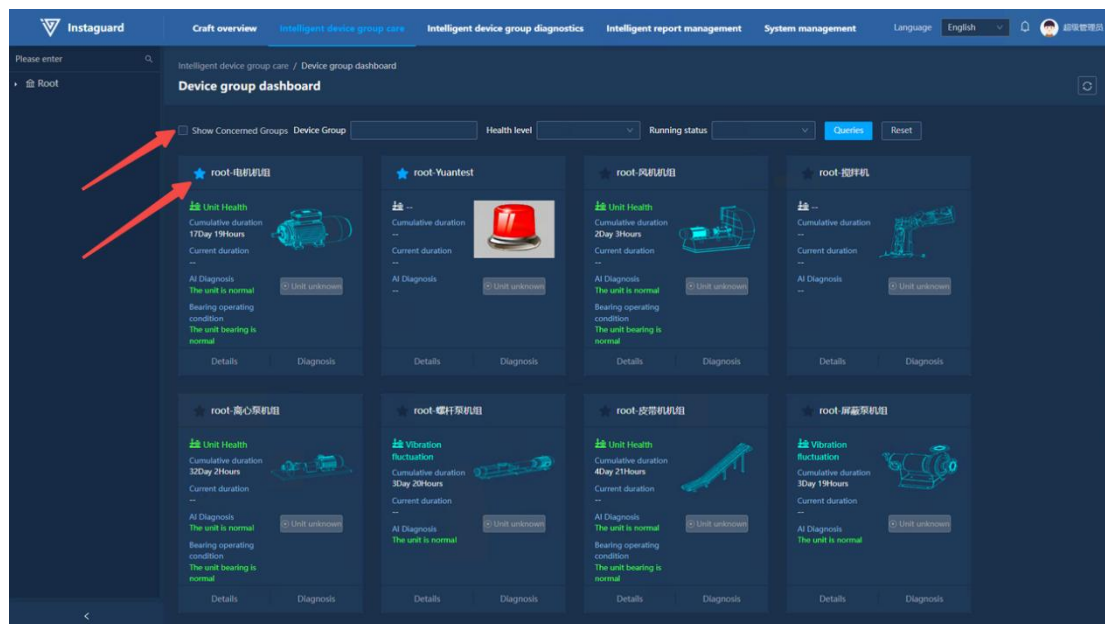


2.2.2 Filter Query

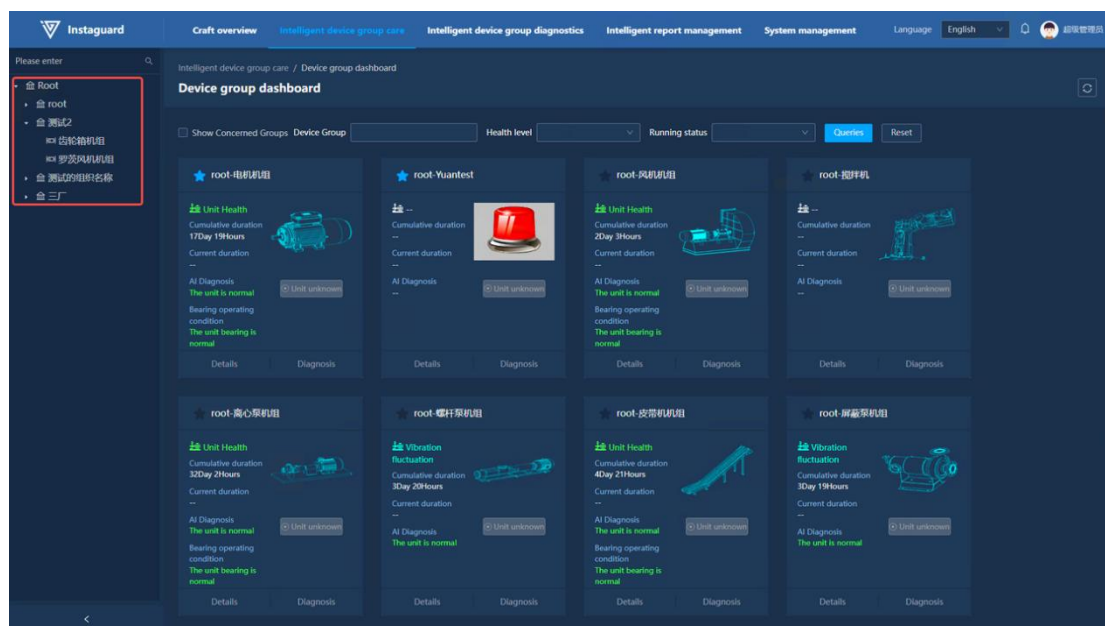
Select or enter filter criteria as prompted, then click the "Query" button. Click "Reset" to clear all criteria.



- The Unit Kanban page features an exclusive "Show Followed Units Only" option. When checked, only followed units are displayed (click the asterisk before the unit name to mark it in blue for following).

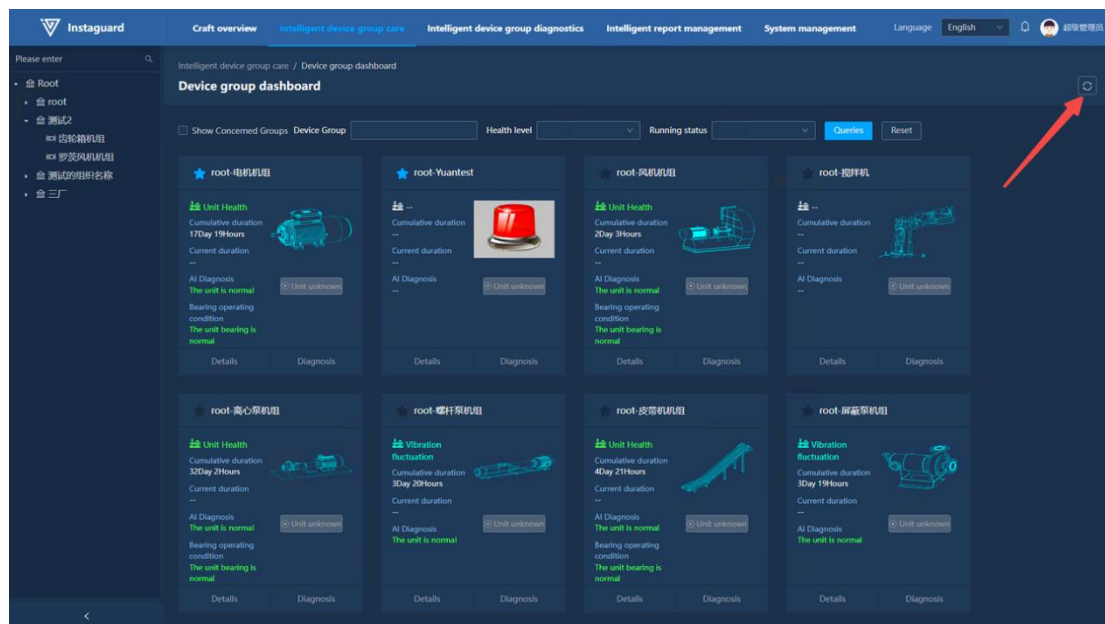


- Select or perform a fuzzy search in the left organization tree to display units under the corresponding organization and its subordinates.



2.2.3Data Refresh

Click the "Refresh" button to force an update of the page content.



2.2.4Language Switching

Click the "Language" drop-down menu at the top to switch between Chinese and English.



2.3Intelligent Care Dashboard (Home Page)

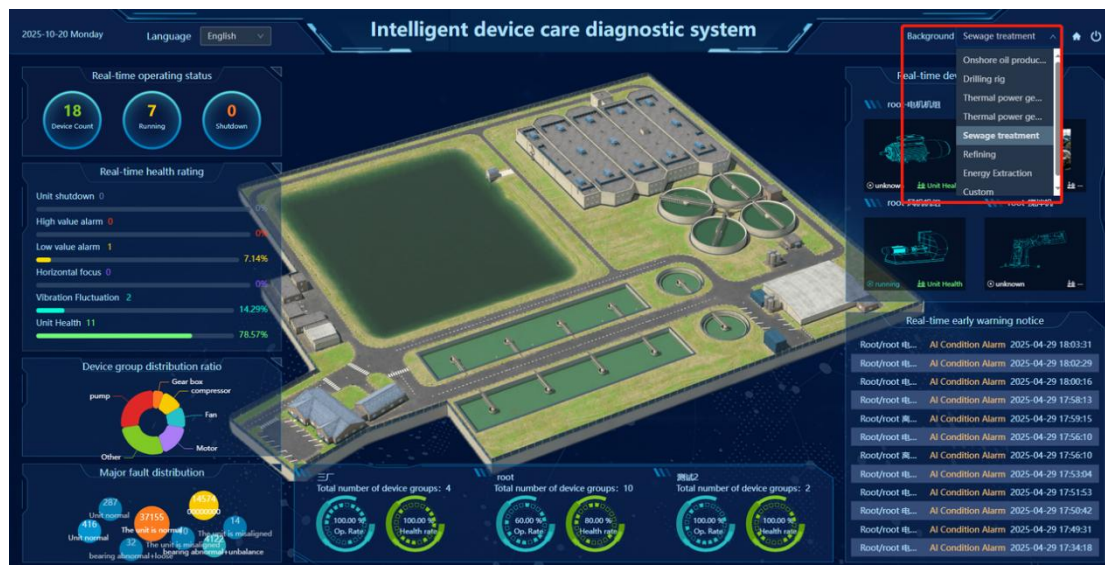
2.3.1Function Overview

Use the intelligent care dashboard to quickly access real-time operation status, real-time health grade, unit proportion distribution, main fault distribution, unit real-time kanban, real-time warning notifications, and real-time health statistics of organizational units:



2.3.2 Background Selection

The intelligent care dashboard allows users to change the background image. Click the "V" in the upper-right corner and select from the drop-down menu. The system defaults to background images for onshore oil extraction, drilling platforms, metallurgy, thermal power generation, sewage treatment, refining, and energy extraction, which can be selected according to display requirements. Once selected, the background will be applied to all users in the organization.



2.3.3 Background Upload

Users can also upload custom background images. Click the "V" in the upper-right corner, select "Custom" below, and a pop-up window will appear for image upload. The image supports JPG/PNG format and must be under 10MB. After upload, all users in the organization will use this image as the dashboard background (file names cannot contain special characters).



2.3.4Unit Kanban

Click the " " in the upper-right corner to enter the Unit Kanban interface, from which you can access other detail interfaces.



2.3.5 Logout

Click the " " in the upper-right corner to log out.



2.3.6 Detail Jump

Click the following four sections to jump to the corresponding detail interfaces:

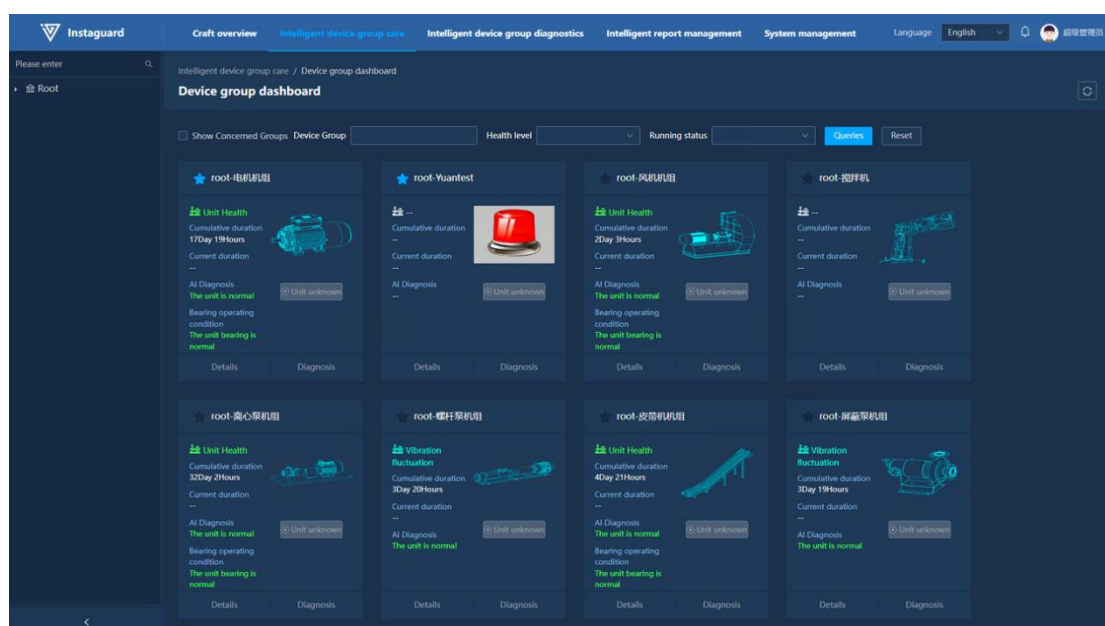


2.4 Intelligent Unit Care

2.4.1 Unit Kanban

Function Overview

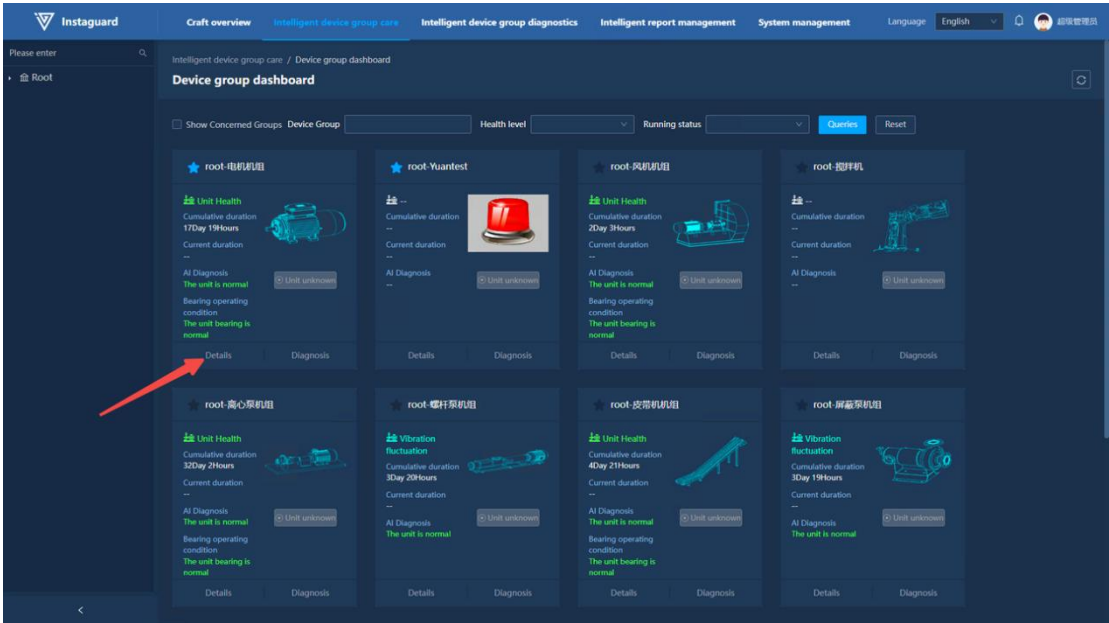
Use this function to centrally care for supervised units. The kanban displays the unit's organization, name, structure, current health grade, accumulated operation time, current operation time, and real-time status. The AI version supports viewing the latest AI care diagnosis results. Kanban supports the functions of changing unit overview diagrams according to unit subtypes, refreshing the database, refreshing the existing unit overview diagrams according to unit subtypes, defaulting to the most recently created image from the subtype library, and quickly screening by unit name, health level, and running status.



2.4.2 Unit Details

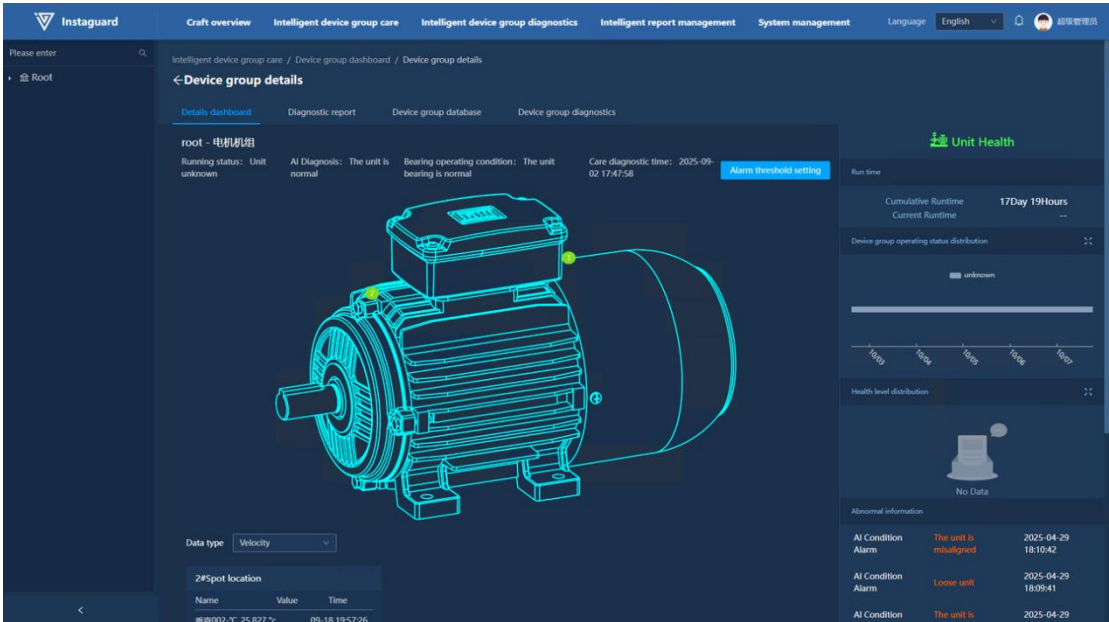
Navigation Path

「Intelligent Unit Care」 → 「Unit Kanban」 → 「Details」



Function Overview

Unit details enable comprehensive care and diagnosis of specified units. The detail kanban shows the unit structure, installation positions of measuring points, real-time operation status, and (for AI version) the latest AI diagnosis results. It also displays real-time data from installed IOT hardware, highlights data exceeding set thresholds, and shows recent/specified-period operation status distribution, health grade distribution, and the latest abnormal alarms.

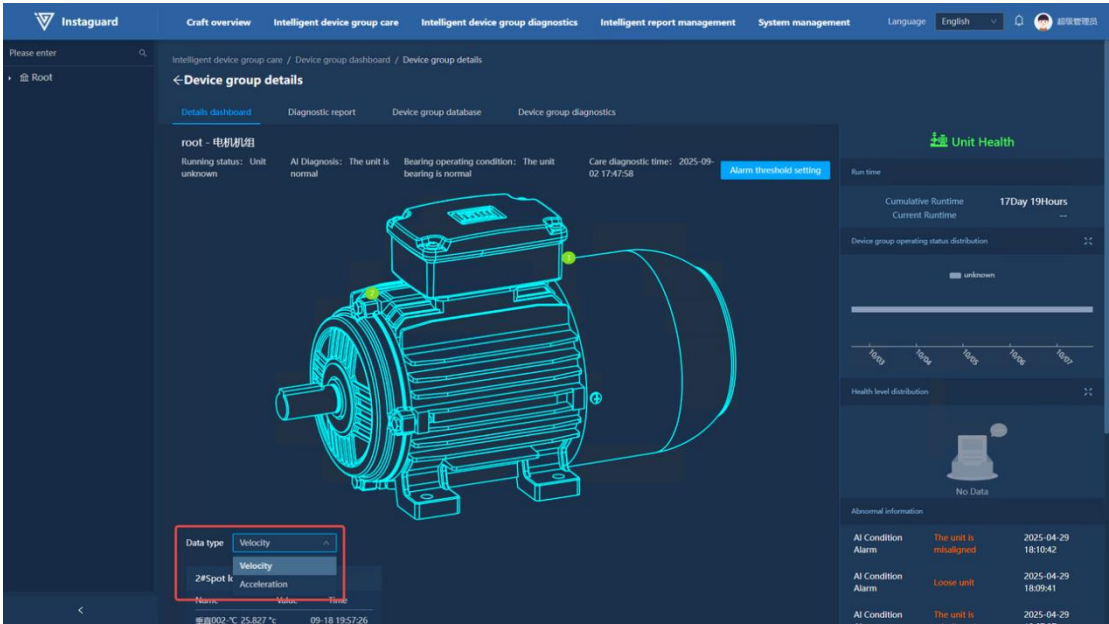


Detail Kanban

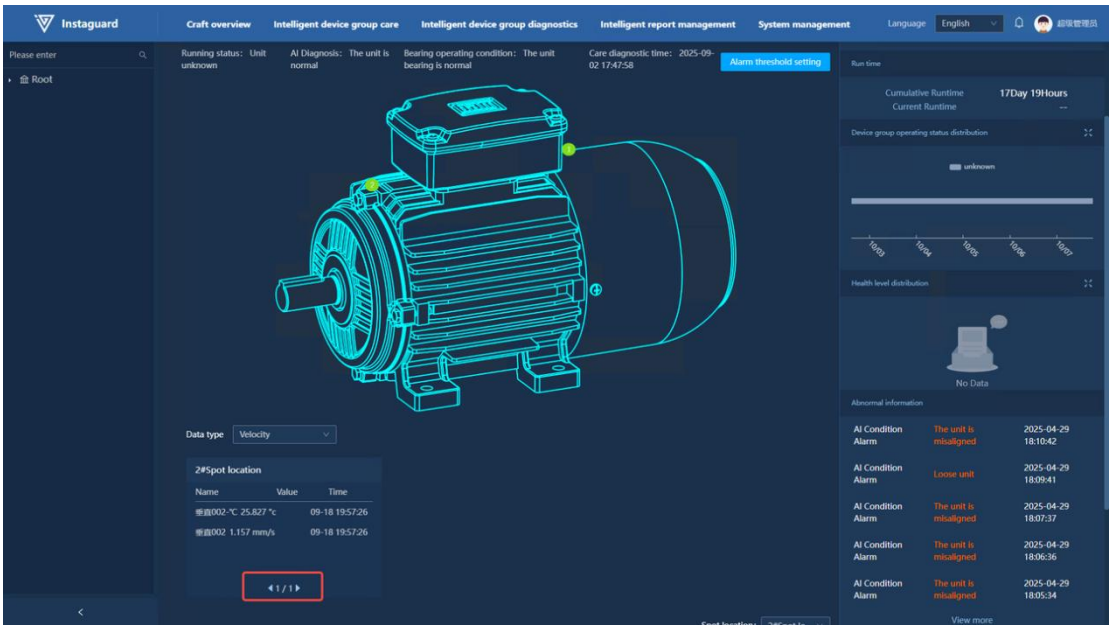
Viewing Unit Real-time Data

After entering unit details, the latest characteristic data of the cared unit are displayed below the kanban, arranged by measuring point positions. Vibration data in each

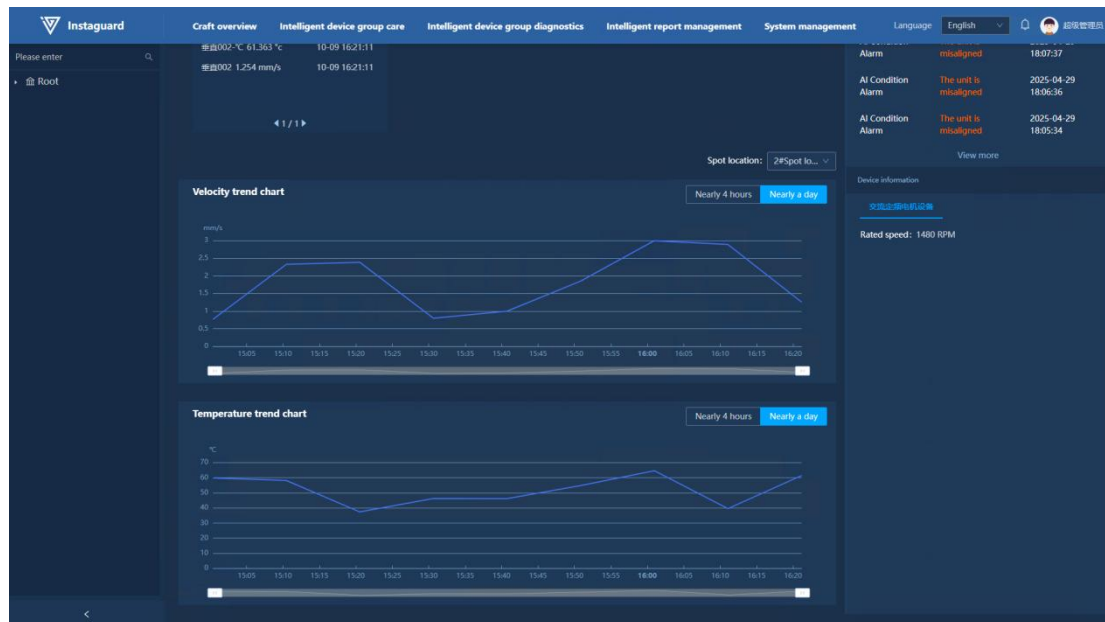
measuring point kanban are ordered by temperature, Z-axis, X-axis, and Y-axis data. Data can be switched by type (acceleration/velocity).



- Each kanban page displays 4 pieces of data; use " < " " > " to page through.

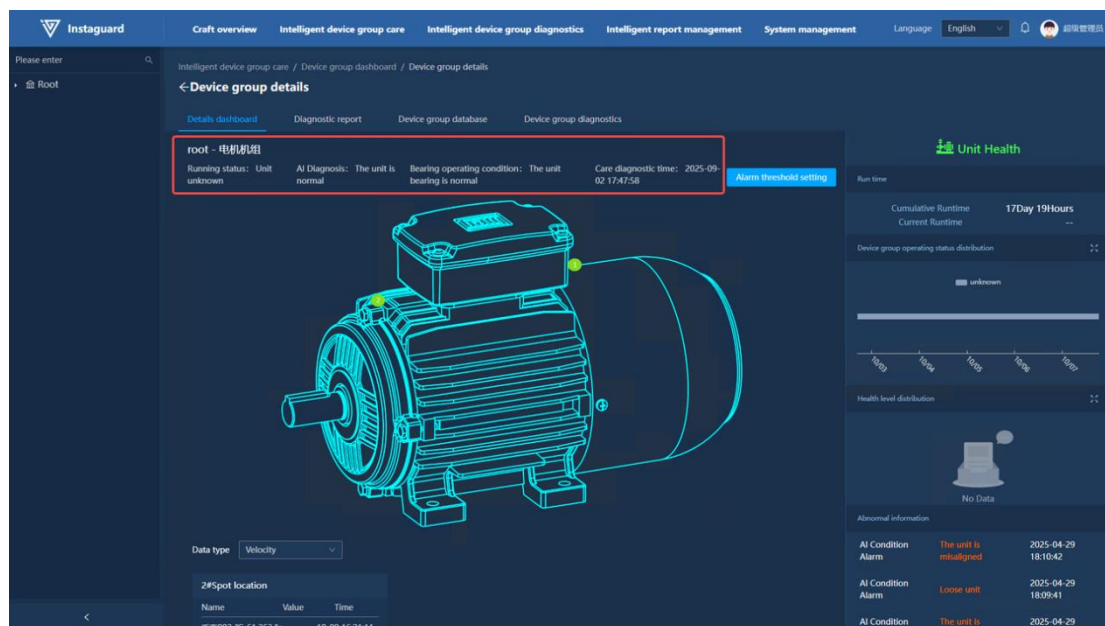


- A corresponding trend chart is displayed below, supporting zooming and hover-to-view details. Select measuring points to switch.



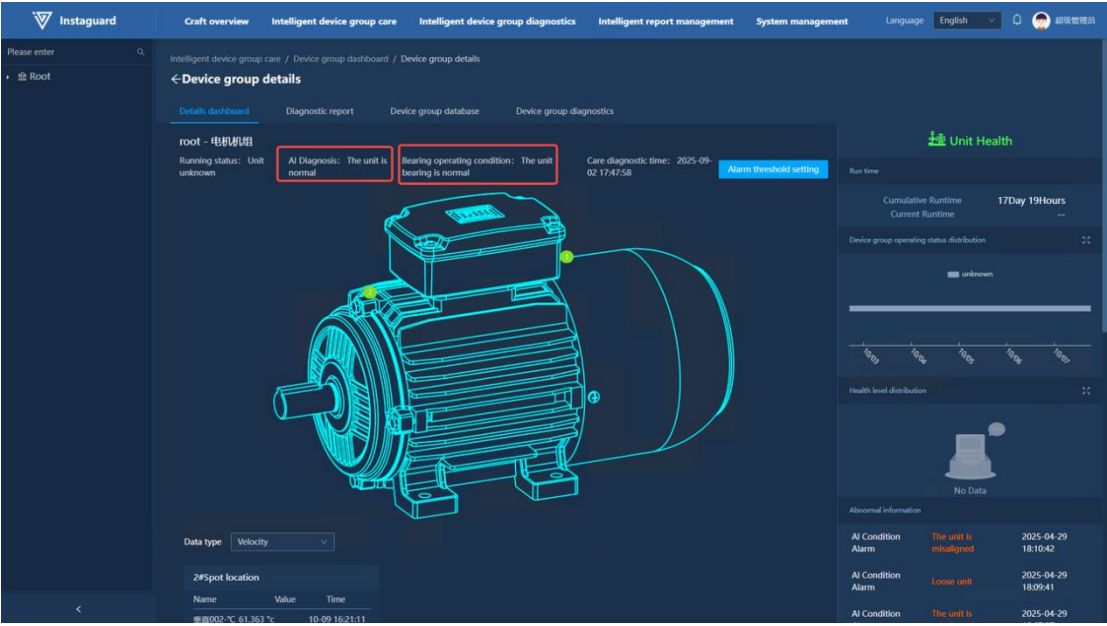
Viewing Real-time Operation Status

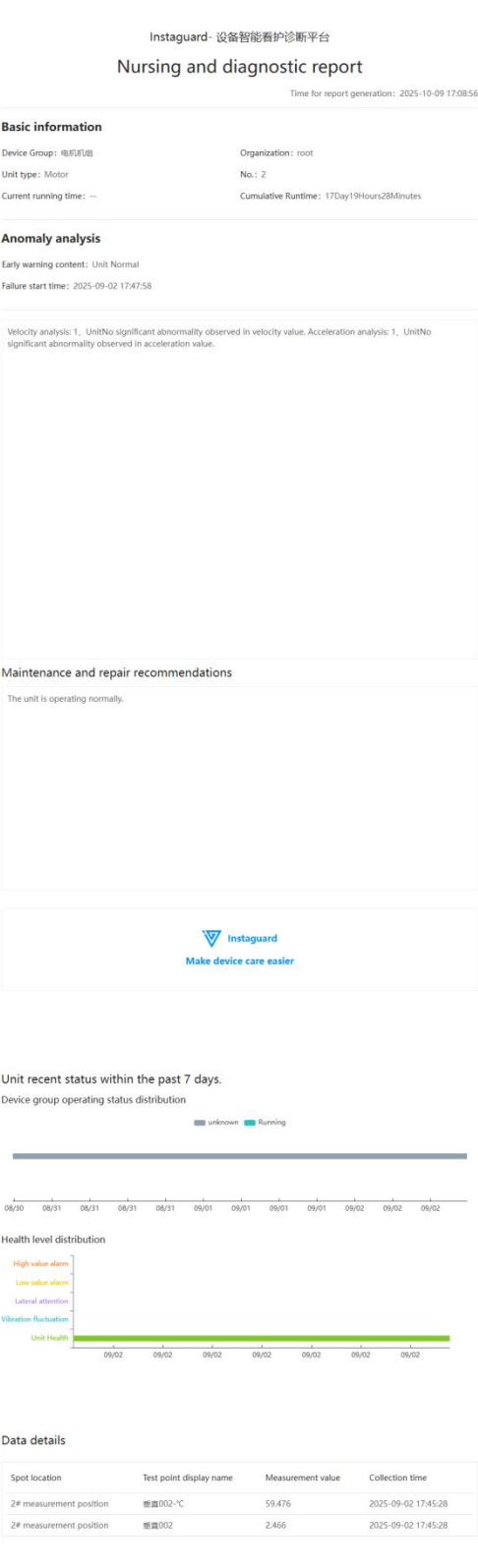
In the middle area of the details, the unit structure and real-time operation status, along with the latest AI diagnosis conclusion, are displayed.



Viewing Care Diagnosis Reports

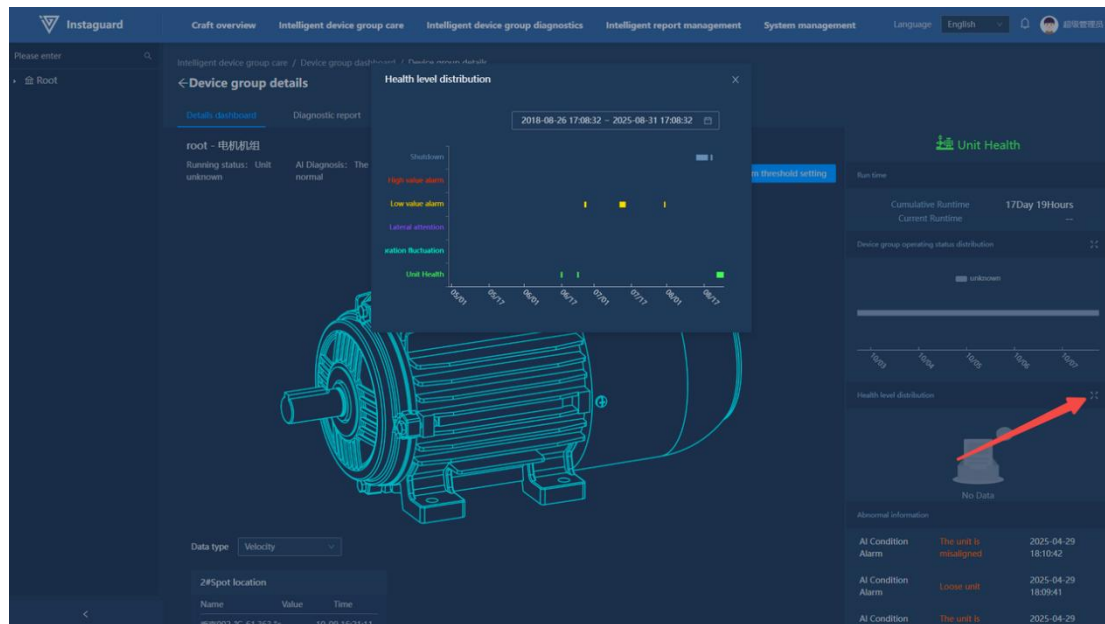
Click "Unit AI Condition" or "Bearing Condition" to automatically generate and download the diagnosis report as a PDF.



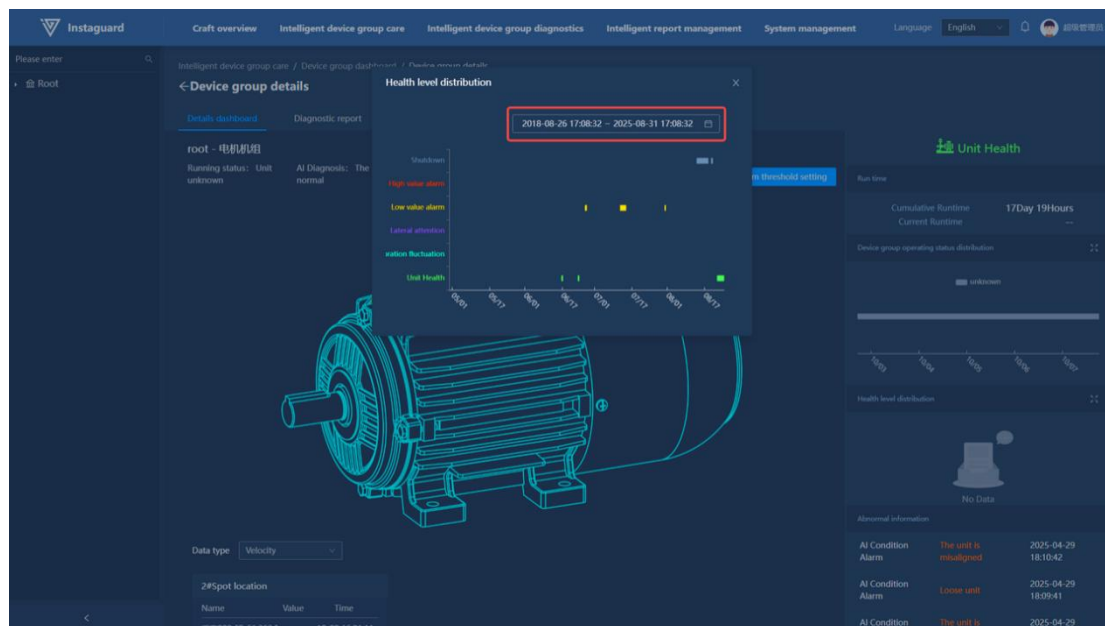


Viewing Health Grade History

After entering the unit kanban, click "Health Grade Distribution" to access the history page.

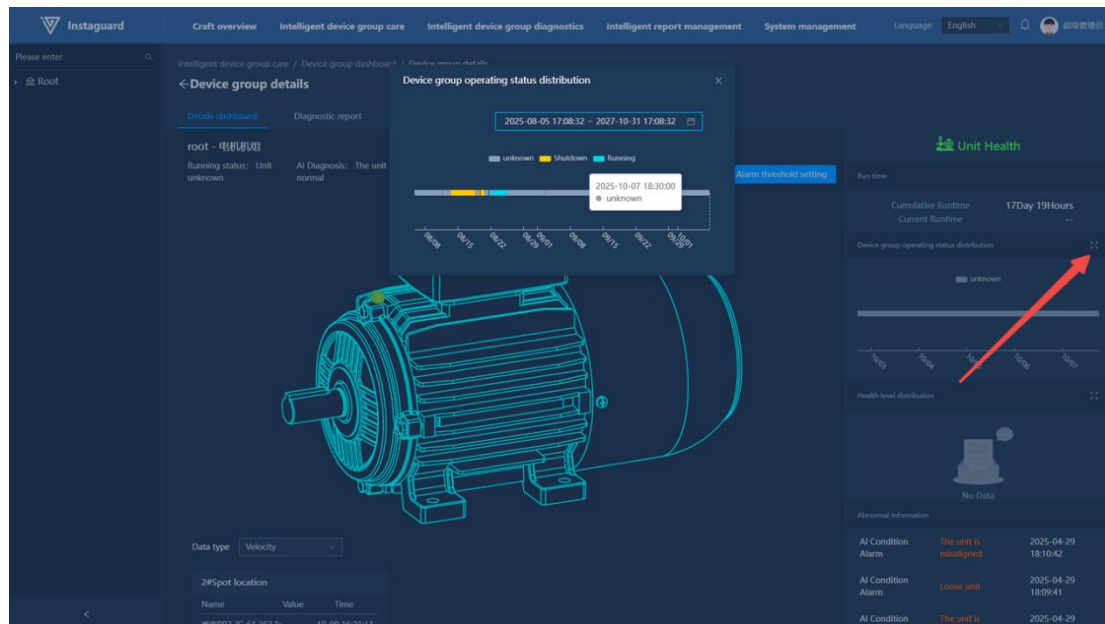


- The start time and end time on the horizontal axis are displayed according to the selected date range, to display the health grade distribution for that period.

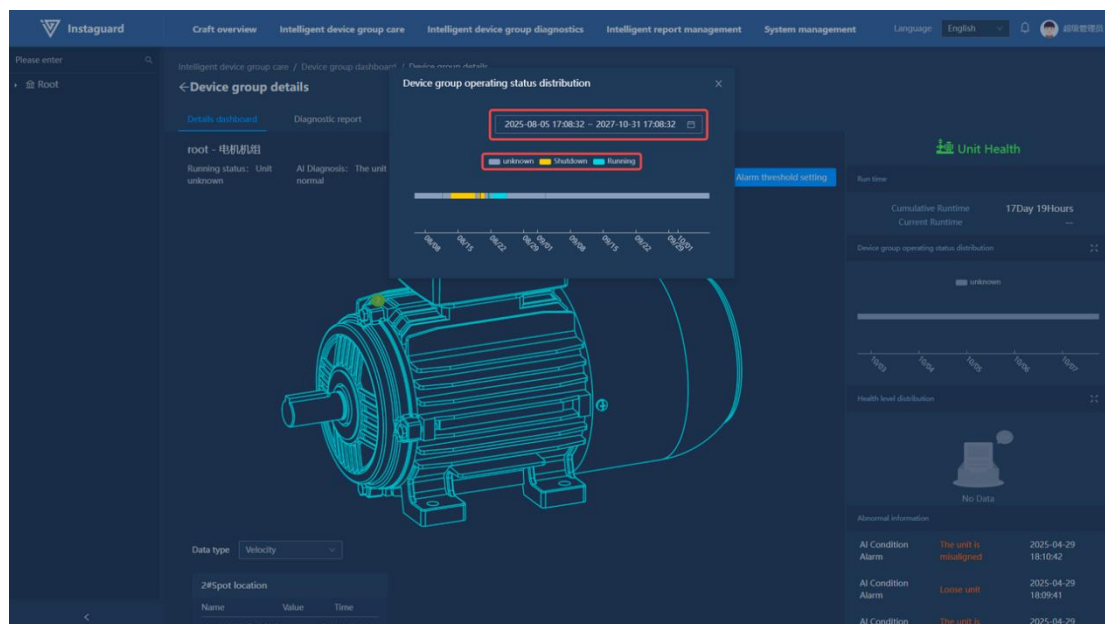


Viewing Operation History Status

After entering the unit kanban, click "Unit Operation Status Distribution" to access the history page.

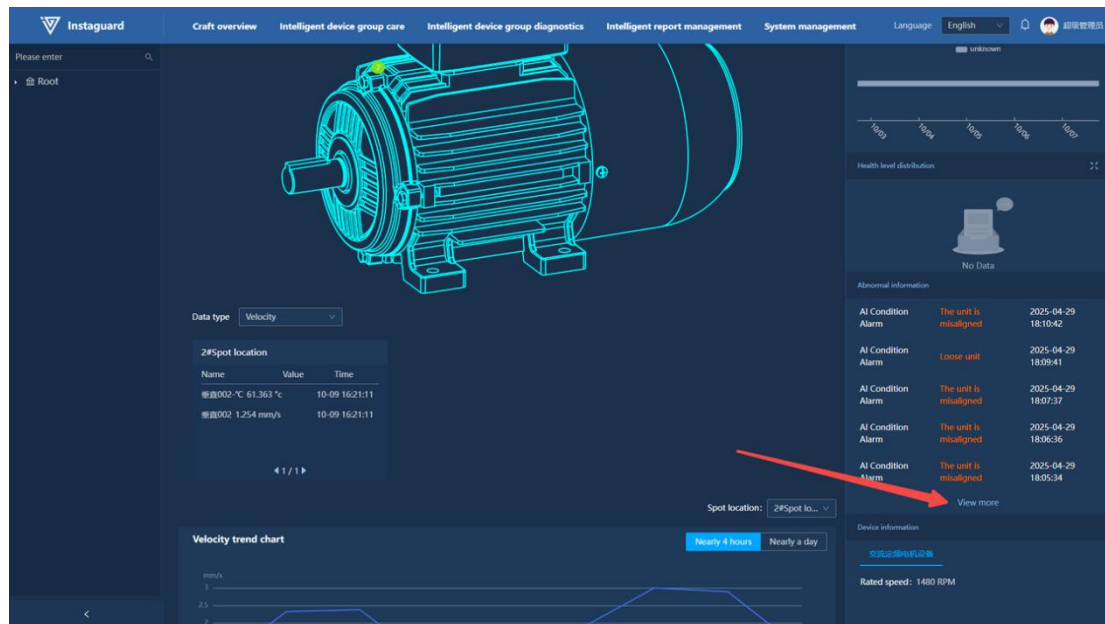


- The start time and end time on the horizontal axis are displayed according to the selected date range, to display the operation status distribution for that period, or click the legend to filter displayed information.



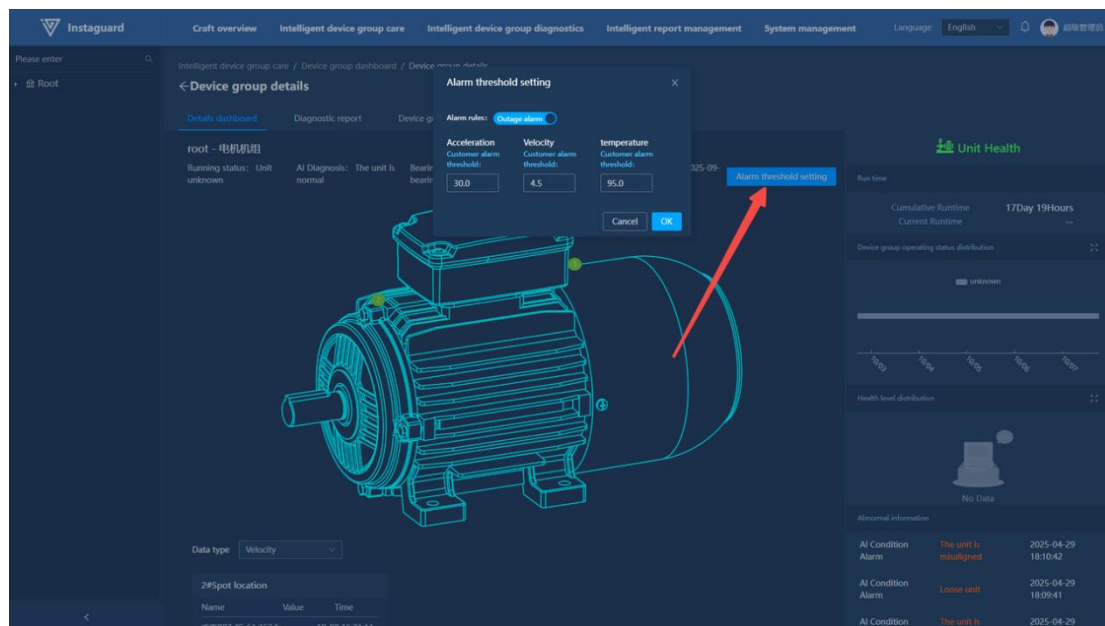
Recent Abnormality Information

In the lower-right "Abnormality Information" section, view the latest 5 abnormalities (type, status, time). Click "View More" to jump to the Abnormality Management function page.



Alarm Threshold Setting

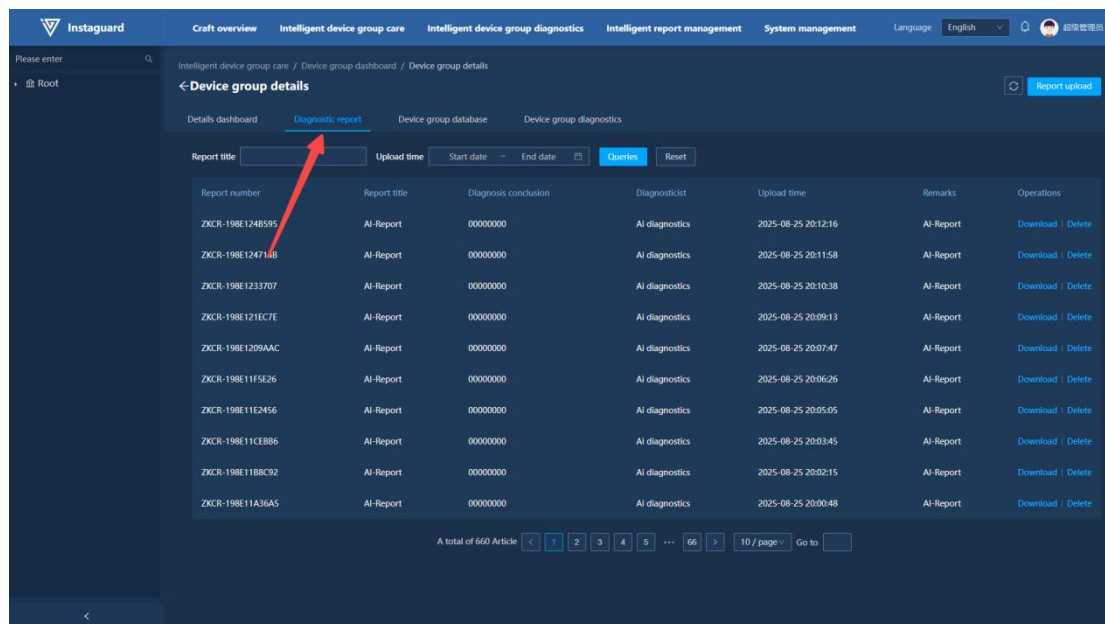
Click "Alarm Threshold Setting" to set thresholds in the pop-up window. The system will alarm when parameters exceed these thresholds. Click "OK" to save or "Cancel" to discard changes.



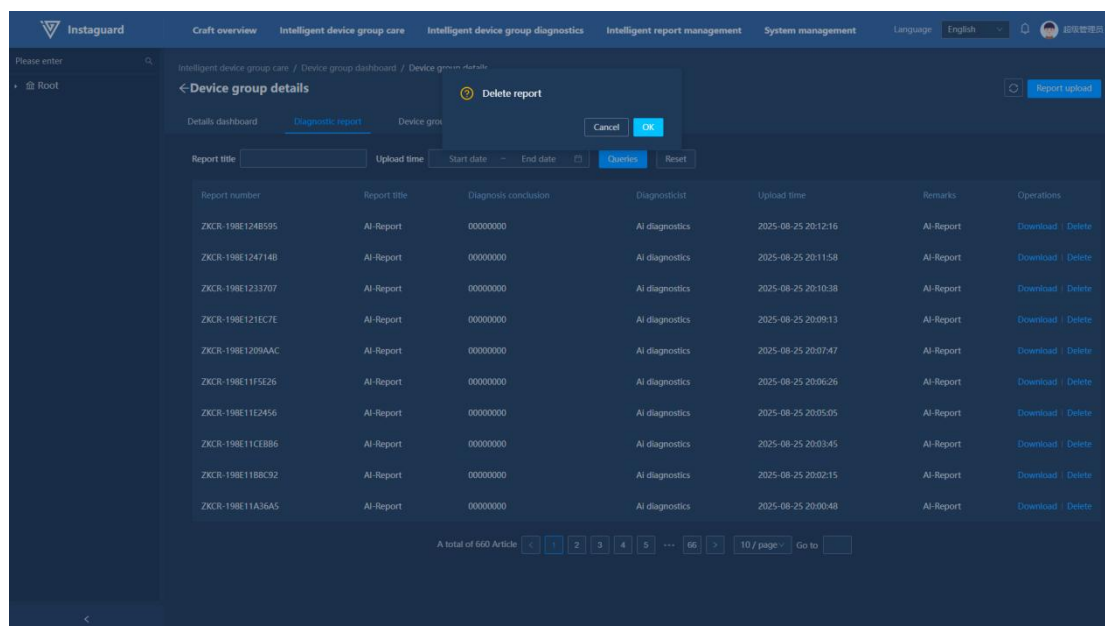
Diagnosis Reports

Viewing Diagnosis Reports

After entering unit details, click "Diagnosis Report" to jump to the report page, where manually uploaded reports and quick diagnosis conclusions are displayed.

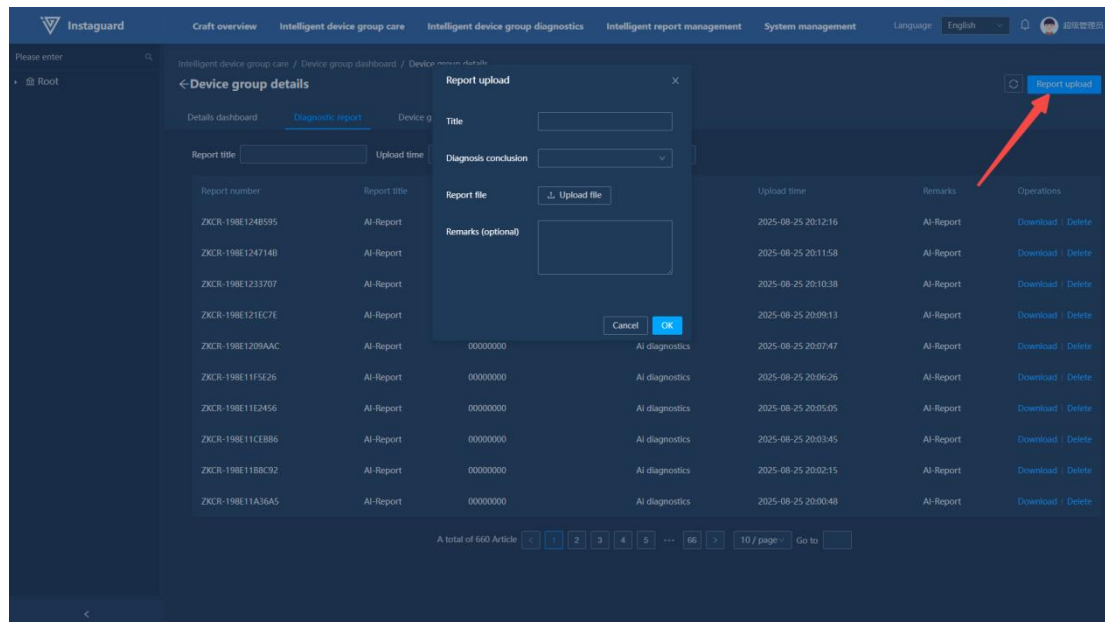


- Click "Download" for a specified entry to save the report locally; click "Delete" to remove it.



Uploading Diagnosis Reports

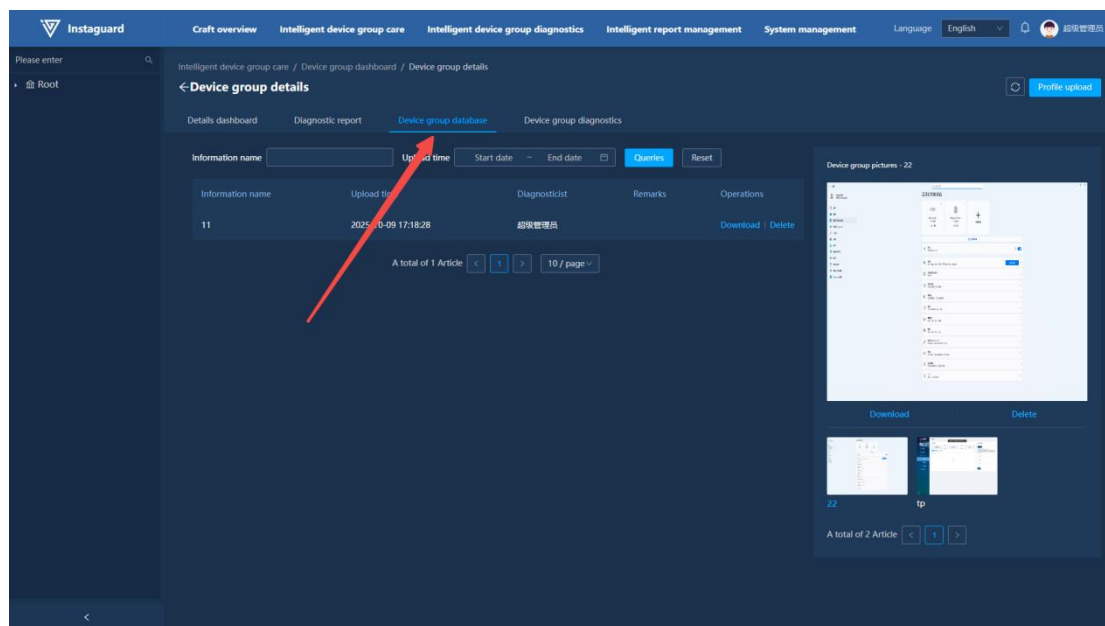
On the diagnosis report page, click "Report Upload" to open the upload interface.



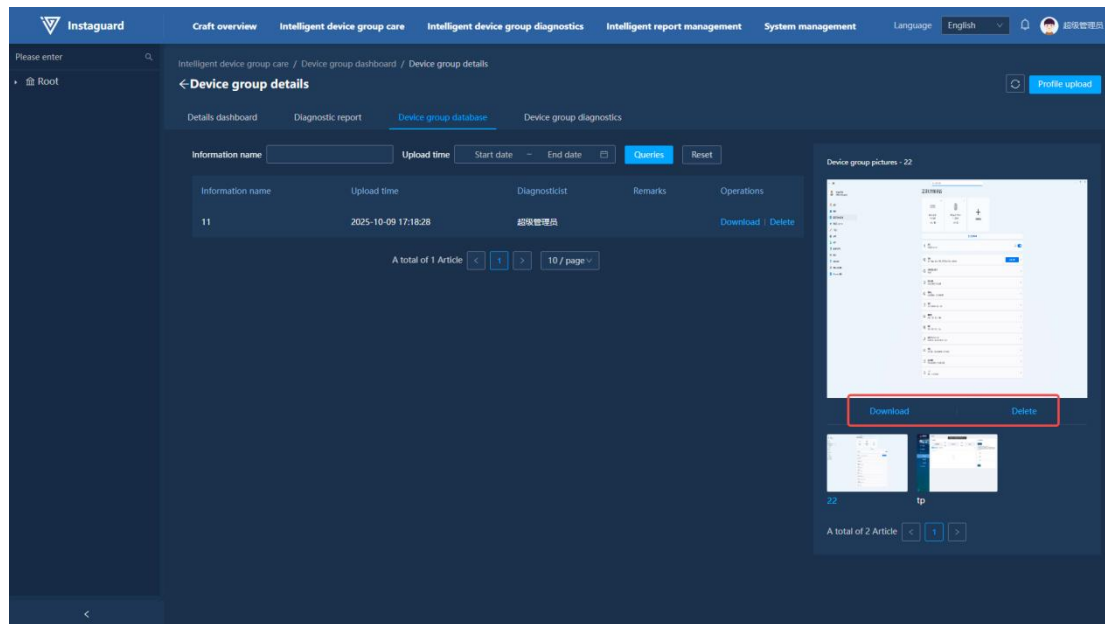
- Click "OK" to complete upload. Reports can be in any format, ≤10MB, and only one file can be uploaded at a time.

Unit Database

After entering unit details, click "Unit Database" to access files and images related to the unit uploaded by users.

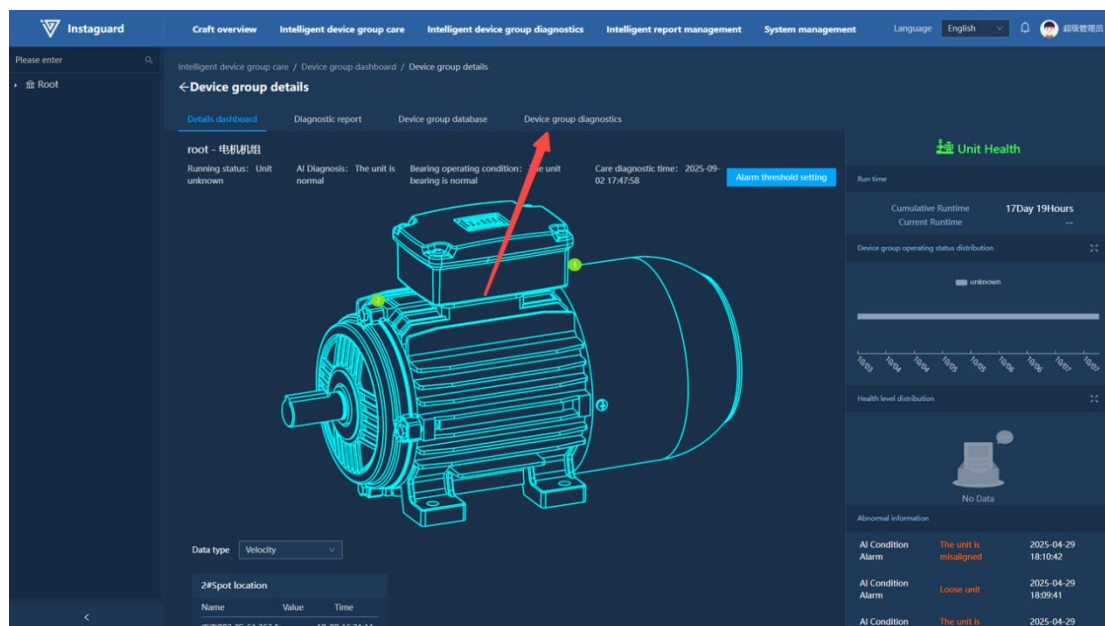


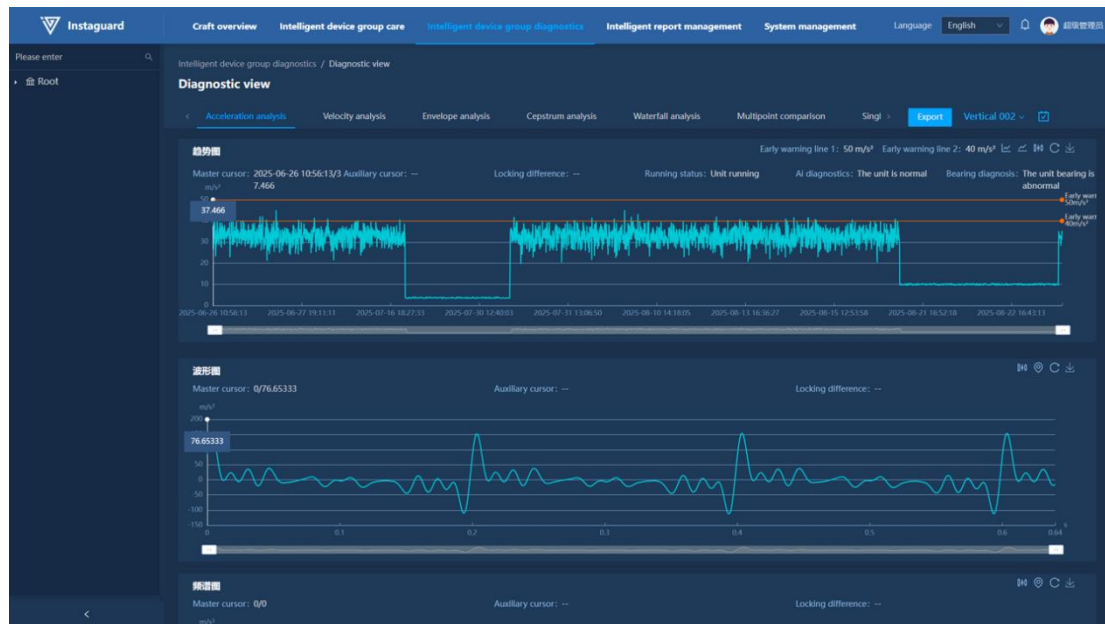
- For images, quick preview is available on the right side of the database. Click an image to view it in full and "Download" to save locally.



Unit Diagnosis

Click "Unit Diagnosis" to jump to 「Intelligent Unit Diagnosis」 → 「Diagnosis View」.





2.4.3 Unit Management

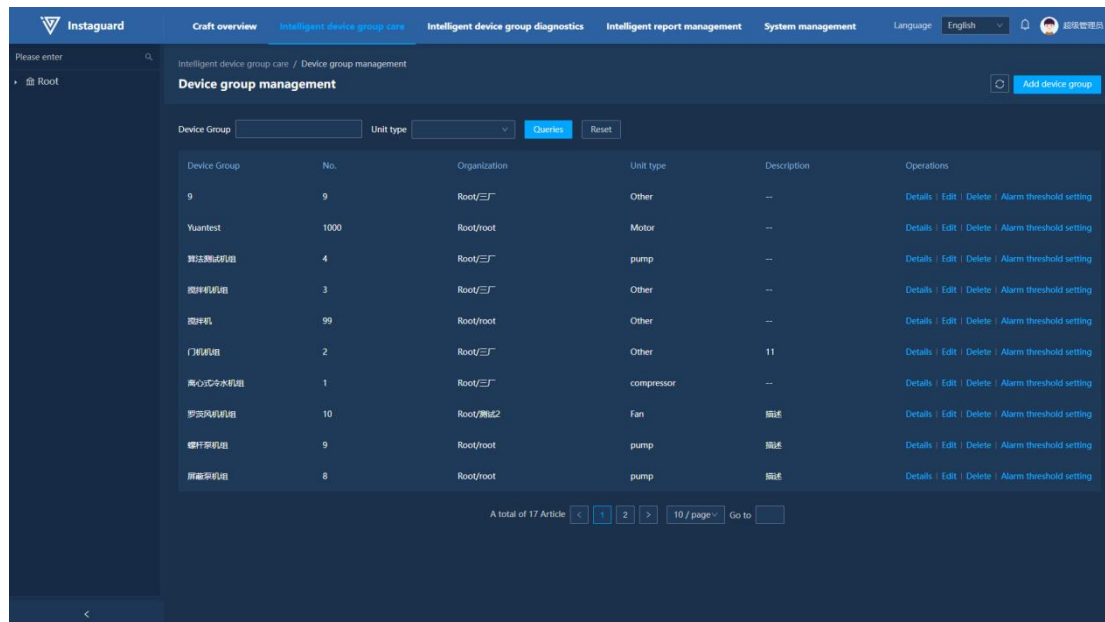
Navigation Path

「Intelligent Unit Care」 → 「Unit Management」

Device Group	No.	Organization	Unit type	Description	Operations
9	9	Root/三	Other	--	Details Edit Delete Alarm threshold setting
Yuantest	1000	Root/root	Motor	--	Details Edit Delete Alarm threshold setting
算法测试机组	4	Root/三	pump	--	Details Edit Delete Alarm threshold setting
搅拌机组	3	Root/三	Other	--	Details Edit Delete Alarm threshold setting
搅拌机	99	Root/root	Other	--	Details Edit Delete Alarm threshold setting
门架机组	2	Root/三	Other	11	Details Edit Delete Alarm threshold setting
离心式冷水机组	1	Root/三	compressor	--	Details Edit Delete Alarm threshold setting
罗茨风机机组	10	Root/测试2	Fan	描述	Details Edit Delete Alarm threshold setting
螺杆泵机组	9	Root/root	pump	描述	Details Edit Delete Alarm threshold setting
屏蔽泵机组	8	Root/root	pump	描述	Details Edit Delete Alarm threshold setting

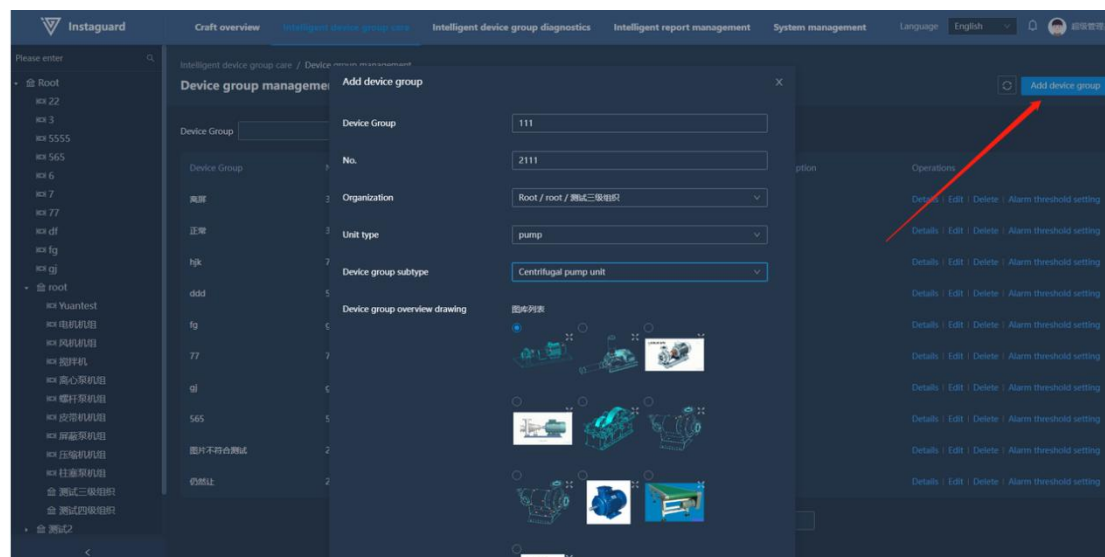
Function Overview

Unit management enables ledger management (account management) of all units within the governing organization and viewing parameters/information of subordinate devices. Unit tag numbers must be unique within the same organization.



Adding Units

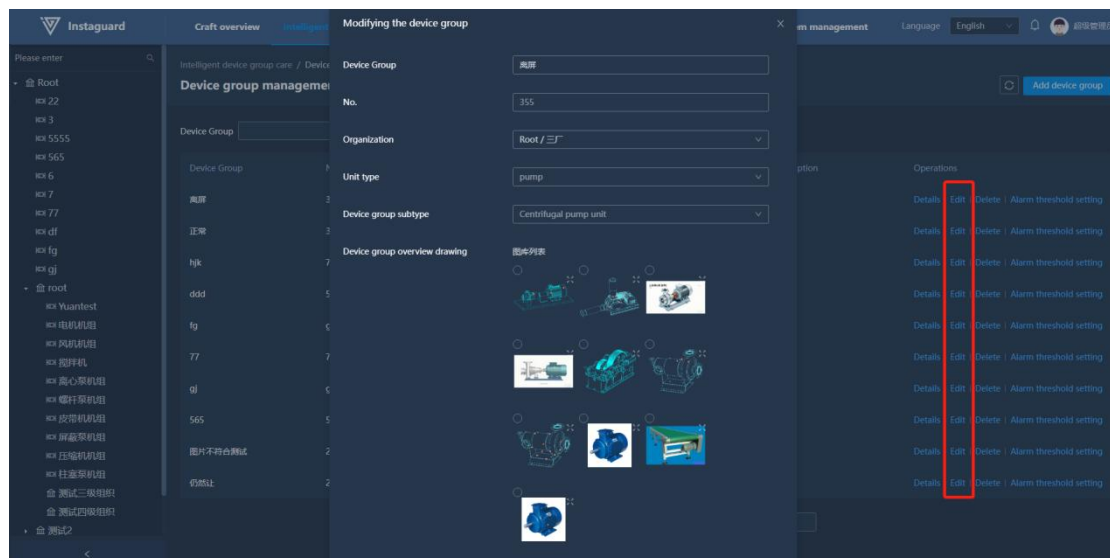
In Unit Management, click "Add Unit" in the upper-right corner to open the addition page.



- Unit tag numbers must be unique within the organization. Users can select the list of all thumbnails under a unit subtype from the unit overview diagram library list, and also can upload an overview image, which will display in the unit kanban, details, and intelligent dashboard. If not uploaded, the system assigns an image based on the unit type.

Editing Units

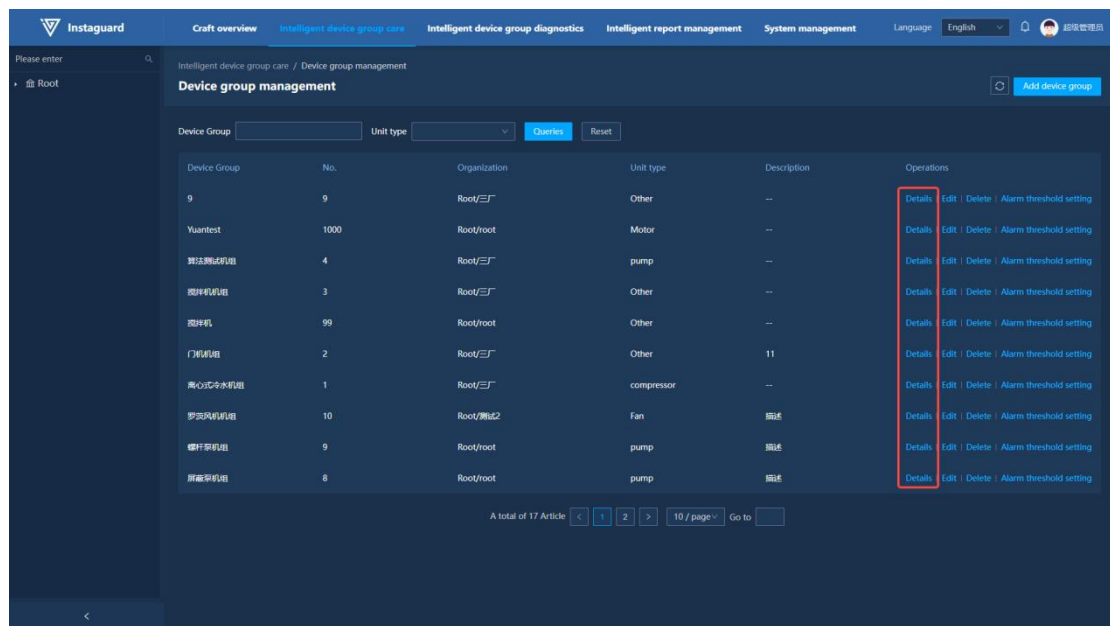
In Unit Management, click "Edit" for a specified unit to open the editing page.

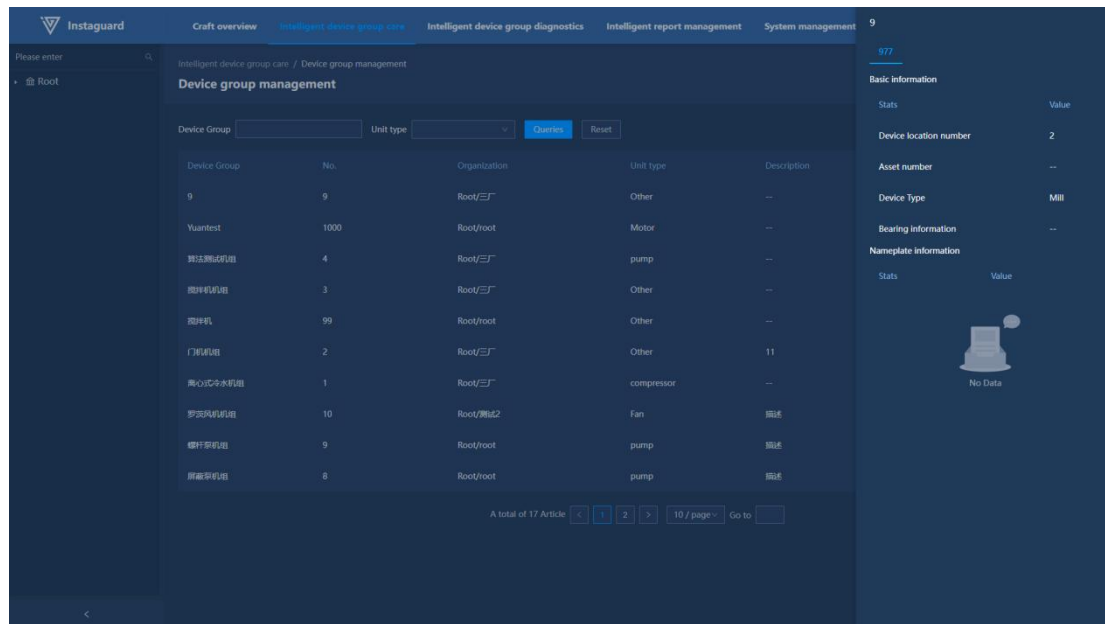


- Unit tag numbers, organization, and structure cannot be edited. Users unit overview diagram is displayed in the custom area, and can be selected from the library list only after deleting the custom image and also can upload/change the overview image as with adding units.

Unit Details

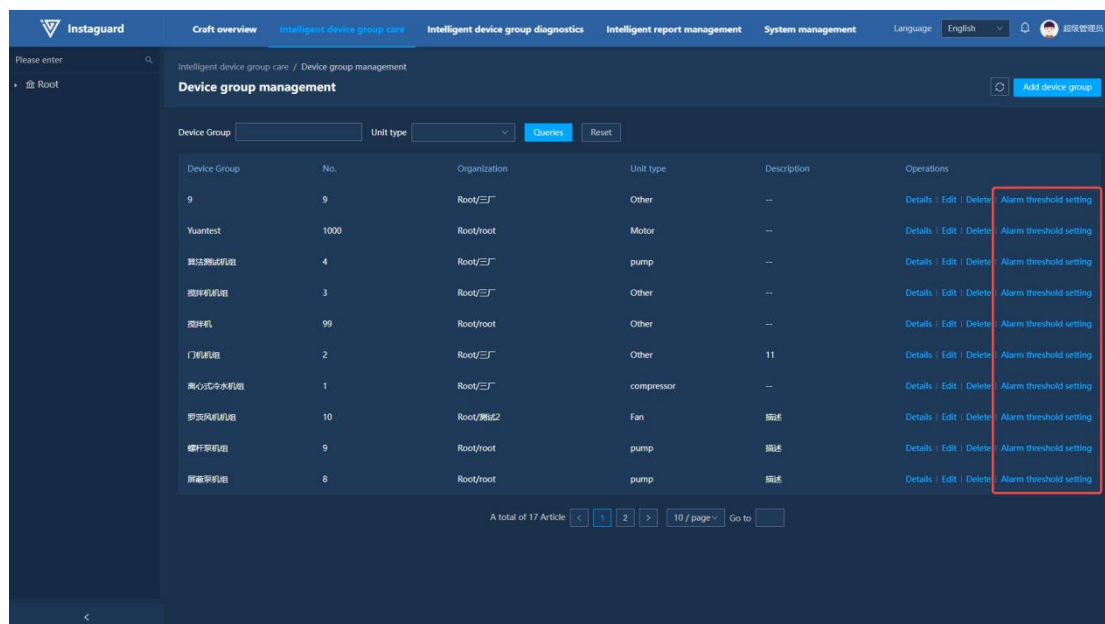
In Unit Management, click "Details" for a specified unit to display details of all subordinate devices on the right.





Alarm Threshold Setting

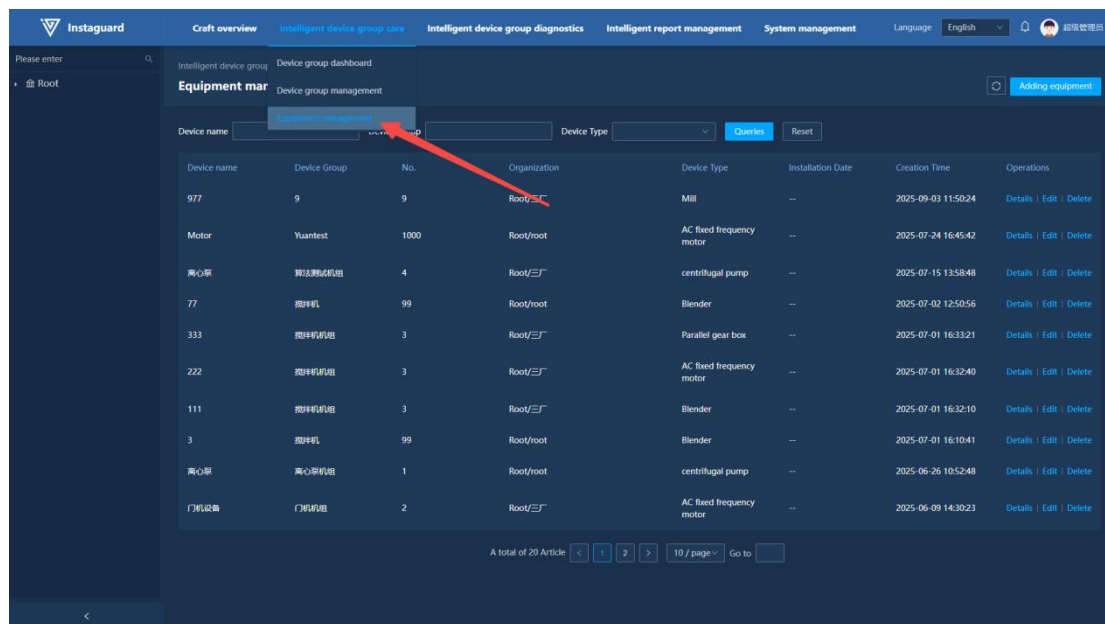
Click "Alarm Threshold Setting" to set thresholds in the pop-up window (same as unit details).



2.4.4 Device Management

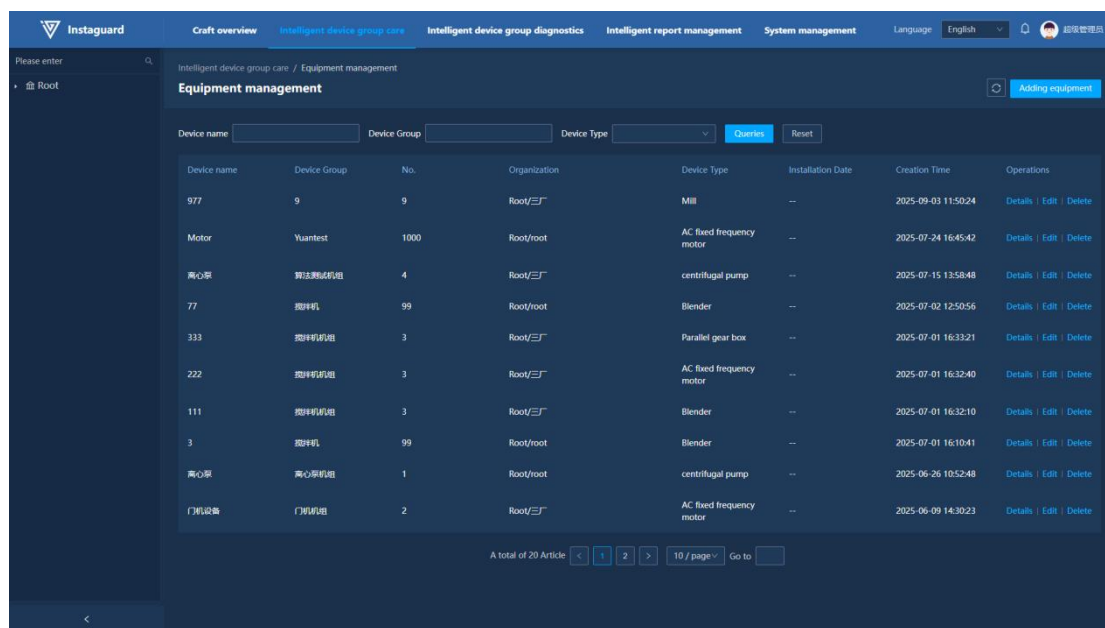
Navigation Path

「Intelligent Unit Care」 → 「Device Management」



Function Overview

Device management enables ledger management (account management) of all devices within the governing organization and viewing parameter information of specified devices. Position numbers must be unique within the same unit.



Adding Devices

In Device Management, click "Add Device" in the upper-right corner to open the addition page.

- Selecting an organization auto-populates corresponding units. Selecting a device type displays required nameplate parameters below. Each unit position number can only correspond to one device.

- Enter at least 3 characters of a bearing model to auto-display supported models (containing the keyword).

The screenshot shows the 'Adding equipment' form in the Instaguard system. The form includes fields for Basic Information (Device name, Device Group, Device Type, Asset number, Bearing model, Nameplate information), Organization, Device location number, Device group role, Installation Date, and Equipment description. The 'Bearing model (optional)' dropdown is highlighted with a red box, showing a single selection: 'SKF - K-JLM10494'.

- Multiple bearing models can be selected.

The screenshot shows the 'Adding equipment' form in the Instaguard system. The 'Bearing model (optional)' dropdown is highlighted with a red box, showing multiple selections: 'SKF - K-JLM10494', 'SKF - K-JLM71094', 'SKF - K-JLM50684', and 'SKF - K-JLM50684'.

Editing Devices

In Device Management, click "Edit" for a specified device to open the editing page. The device's organization, unit name, position number, and type cannot be modified.

Device Details

In Unit Management, click "Details" for a specified device to display its detailed information on the right.

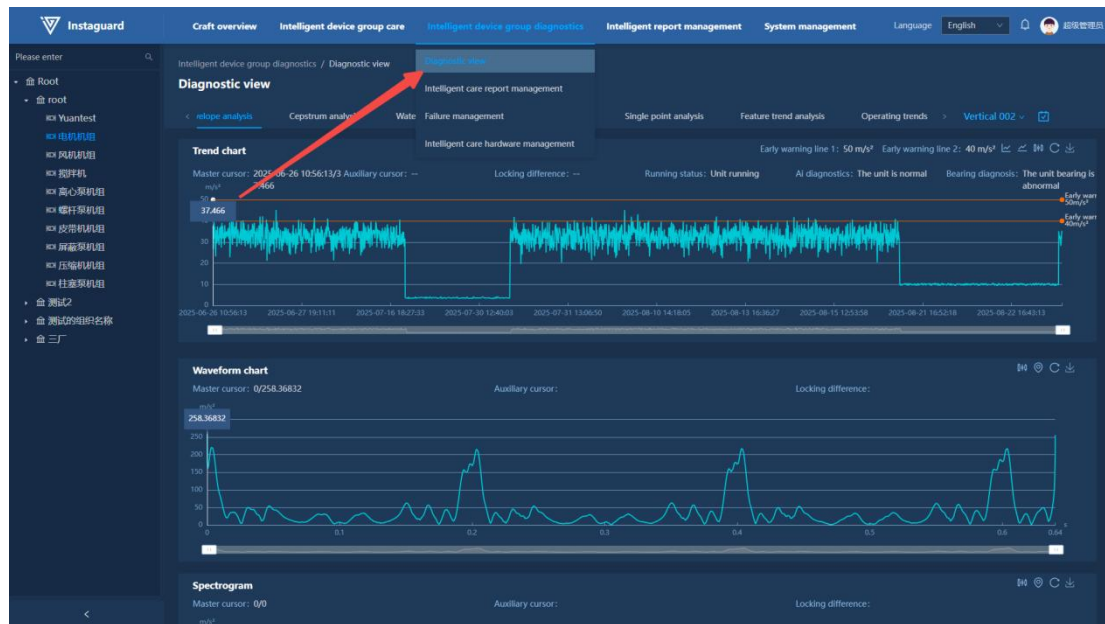
Device name	Device Group	No.	Organization	Device Type	Installation Date
977	9	9	Root/3F	Mill	--
Motor	Yuantest	1000	Root/root	AC fixed frequency motor	--
离心泵	离心泵机组	4	Root/3F	centrifugal pump	--
77	搅拌机	99	Root/root	Blender	--
333	搅拌机机组	3	Root/3F	Parallel gear box	--
222	搅拌机机组	3	Root/3F	AC fixed frequency motor	--
111	搅拌机机组	3	Root/3F	Blender	--
3	搅拌机	99	Root/root	Blender	--
离心泵	离心泵机组	1	Root/root	centrifugal pump	--
门机设备	门机机组	2	Root/3F	AC fixed frequency motor	--

2.5 Intelligent Unit Diagnosis

2.5.1 Diagnostic View

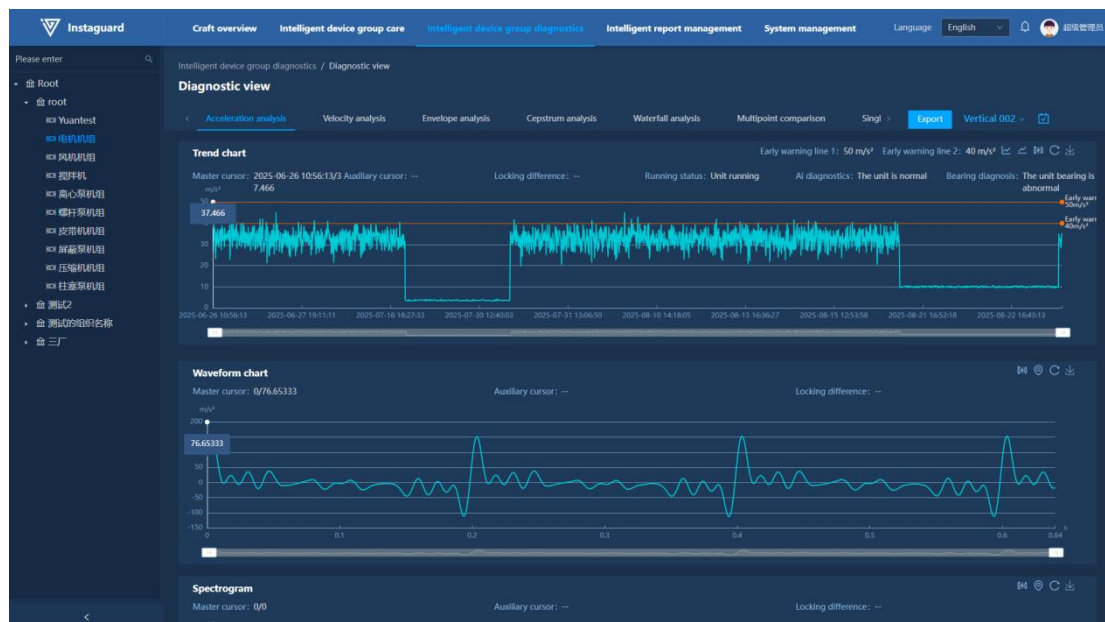
Navigation Path

「Intelligent Unit Diagnosis」 → 「Diagnostic View」



Function Overview

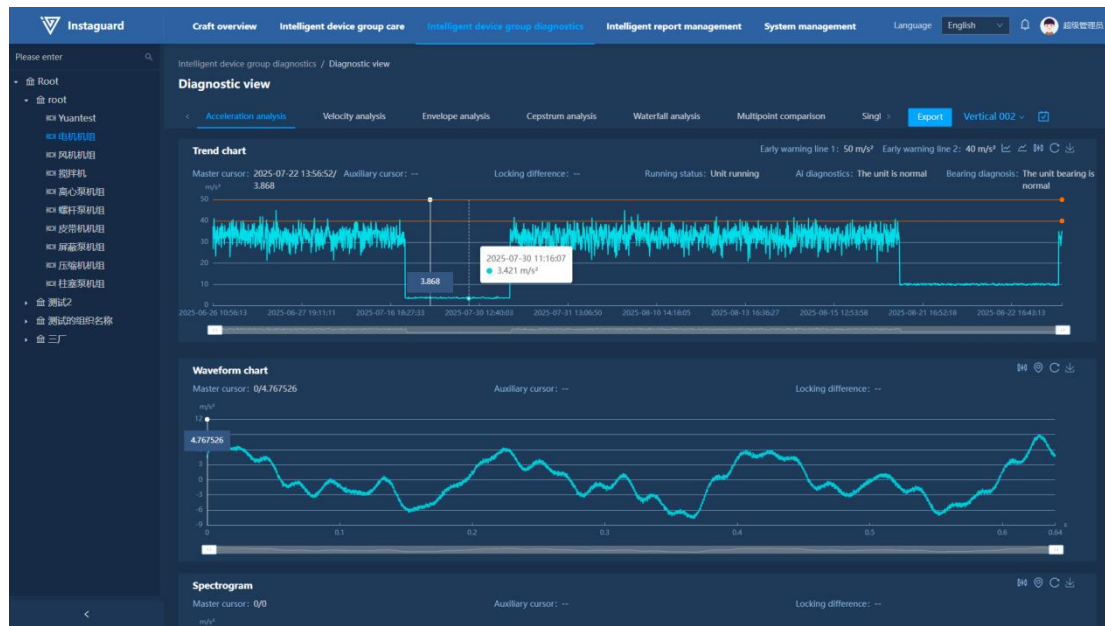
The intelligent diagnosis view enables users to perform data analysis on cared units. Diagnostic charts include acceleration view, velocity view, envelope view, cepstrum view, waterfall view, single-measuring-point comparison, multi-measuring-point comparison, characteristic trend analysis, and operation trend view. Views contain trend charts, waveform charts, and spectrum charts, supporting functions such as quick master cursor setting, multi-cursor viewing (2/3/5 cursors), main-auxiliary cursor difference viewing, and warning line display. Trend charts support showing/hiding trend points. Waveform and spectrum charts support multi-point annotation for easy data comparison. All charts support specified area zooming and quick positioning.



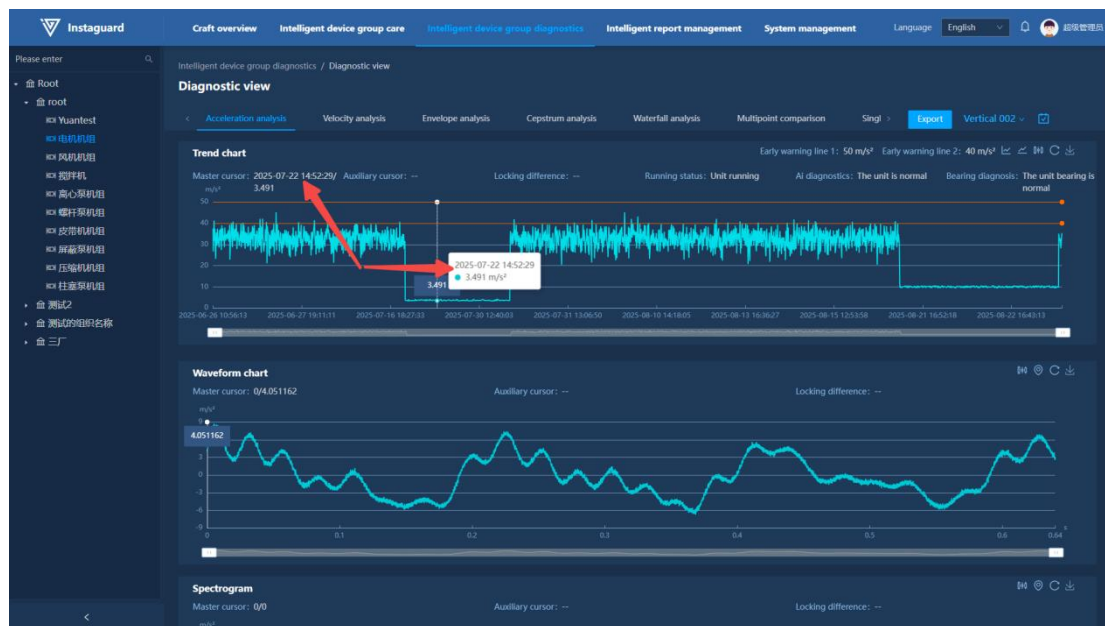
Waveform and Spectrum Display

By default, the first measuring point data of the first unit in the user's governing organization for the past 7 days are displayed. Left-click a data point in the trend chart

to show corresponding waveform and spectrum information below.

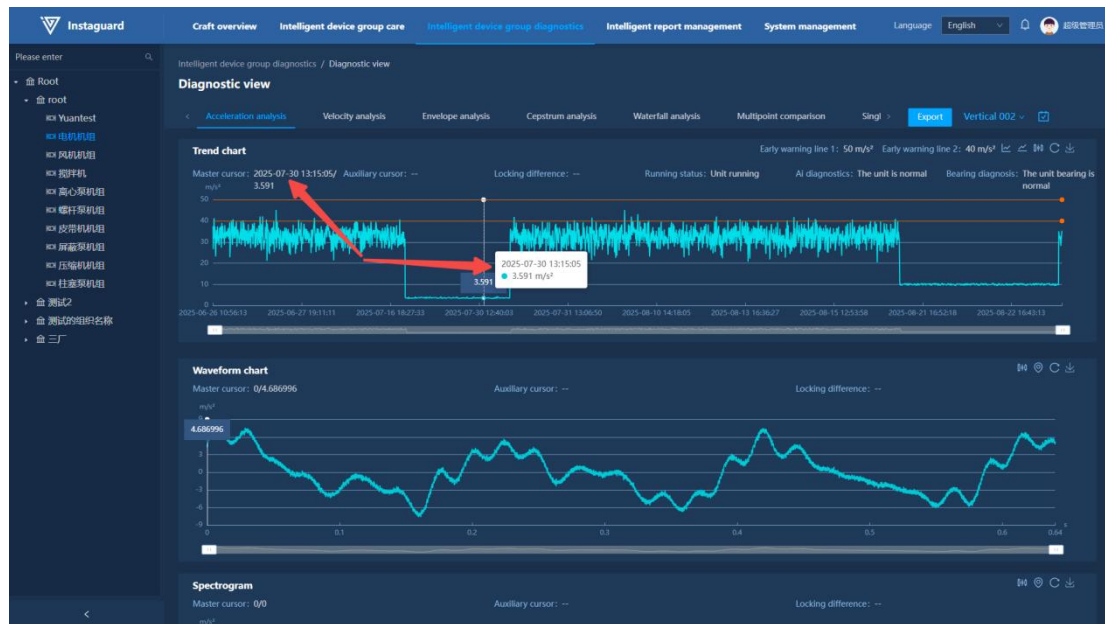


- The trend chart cursor displays information of the clicked trend point.



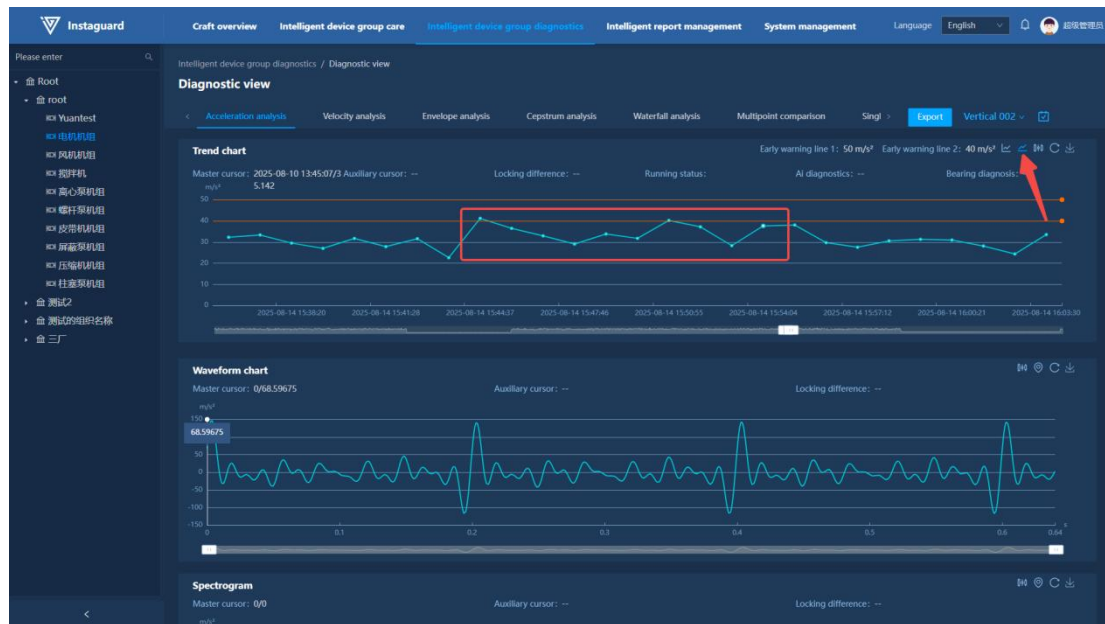
Master Cursor Switching

Click a data point in the chart to switch the master cursor, which will display information of the latest selected point.



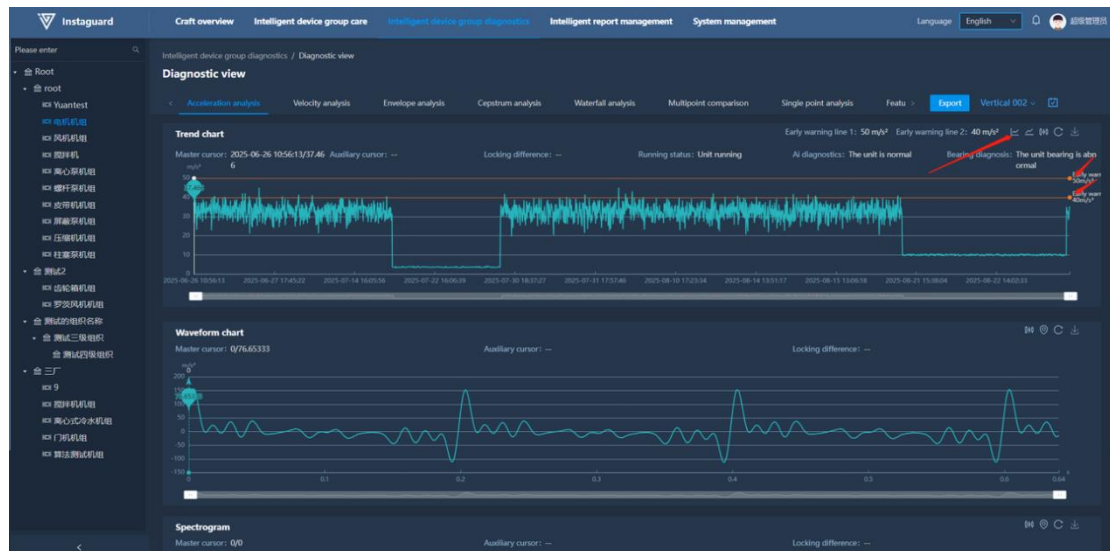
Trend Chart Point Display

Click the "Point Display" button at the upper-right of the trend chart to show/hide trend points.

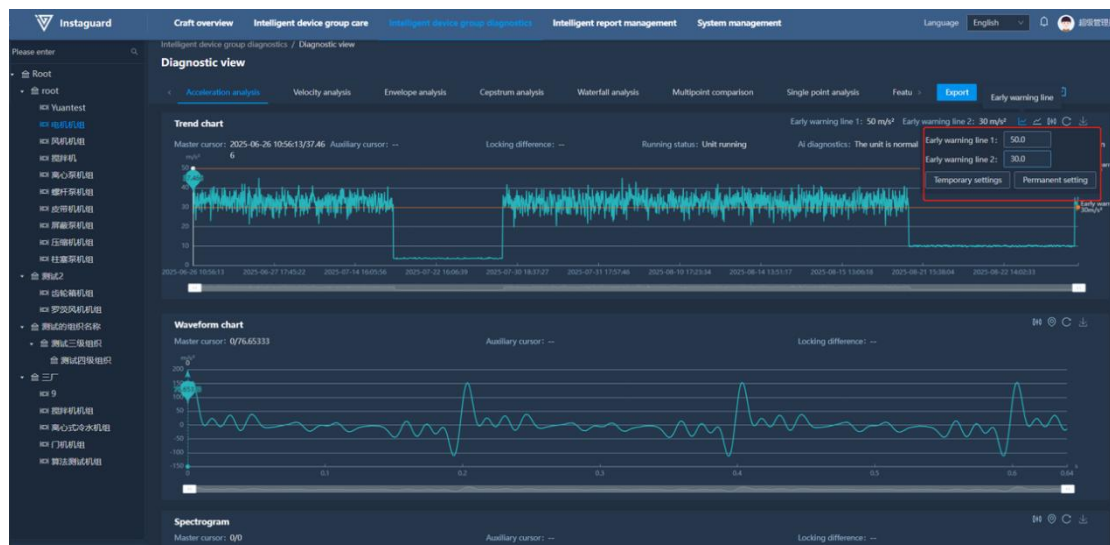


Warning Line Display

Click the "Warning Line Display" button at the upper-right of the trend chart to show/hide warning lines.



- Manually enter warning line values or use buttons to adjust their position on the trend chart.

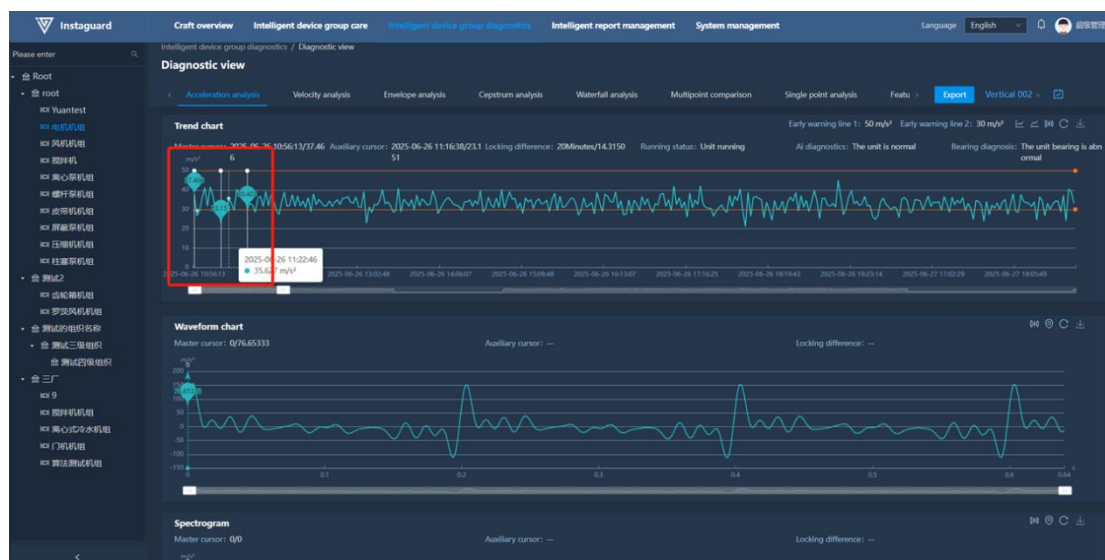


Auxiliary Cursor Display

Click the "Auxiliary Cursor Display" button at the upper-right of the chart, then select the number of cursors.



- After selecting the cursor number, right-click a data point to add the second cursor (additional cursors are auto-placed based on the interval between the master and second cursor). The auxiliary cursor shows the second cursor's value, and the locked difference is the value between the master and second cursor.



- Click "Close" in the auxiliary cursor display menu to hide all cursors and clear auxiliary cursor information.



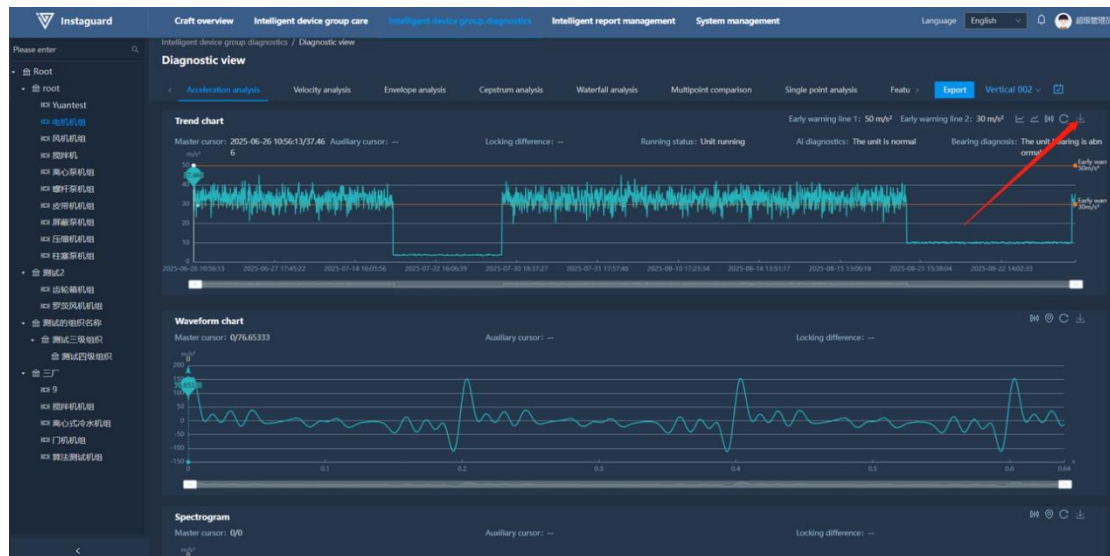
Clear

Click the "Clear" button at the upper-right of the chart to restore the default display.



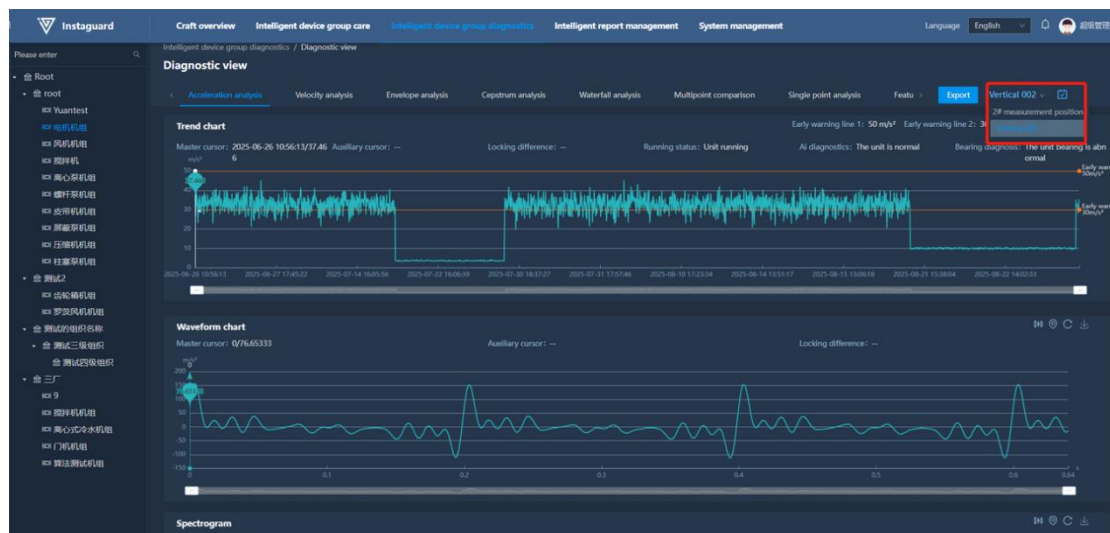
Chart Download

Click the "Download" button at the upper-right of the chart to save the chart as a PNG image locally.



Measuring Point Switching

Click the measuring point drop-down list at the right of "View Switching" to switch to a specified measuring point.



Time Selection

Click the "Time Selection" button at the right of "View Switching" to open the time selection page.

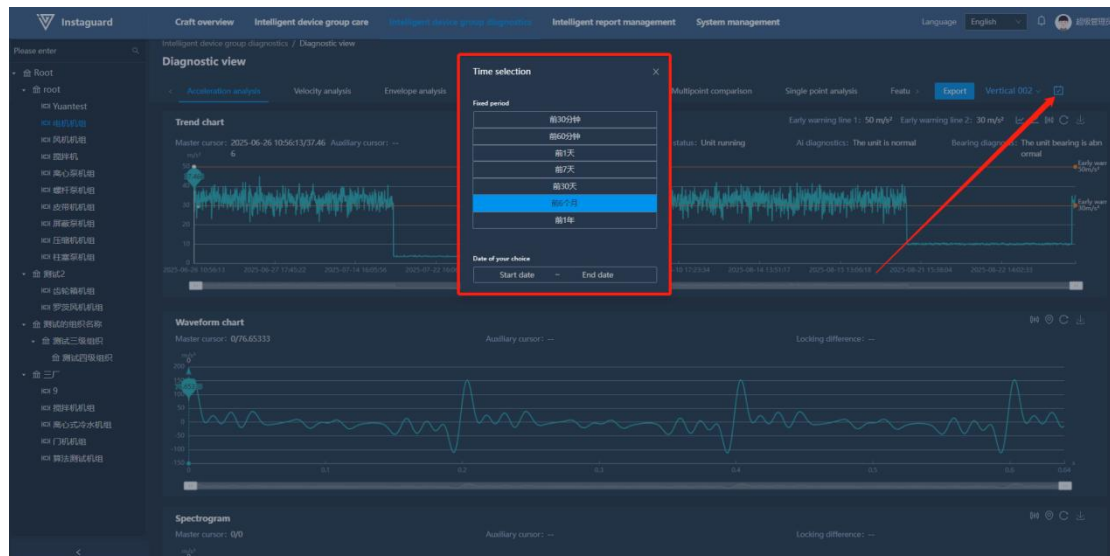
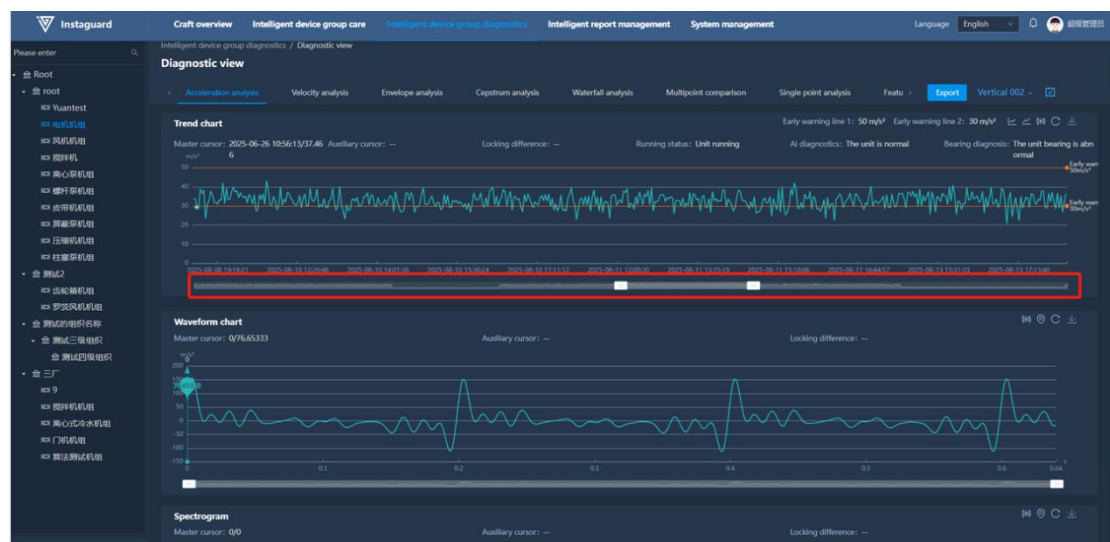


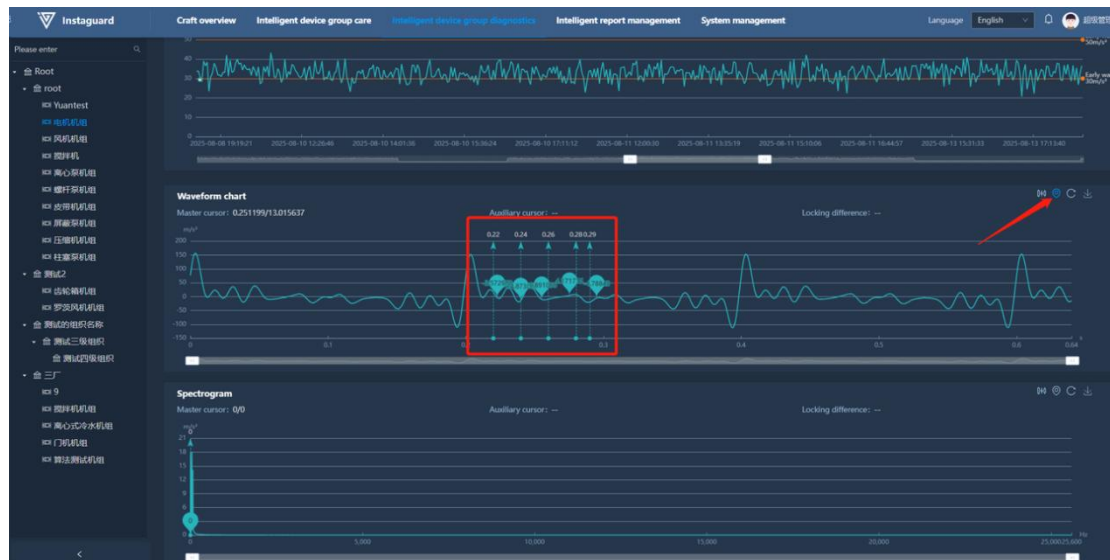
Chart Zooming

Use the mouse wheel to zoom in/out on the chart, or use the zoom bar below the chart to adjust scale and pan left/right.



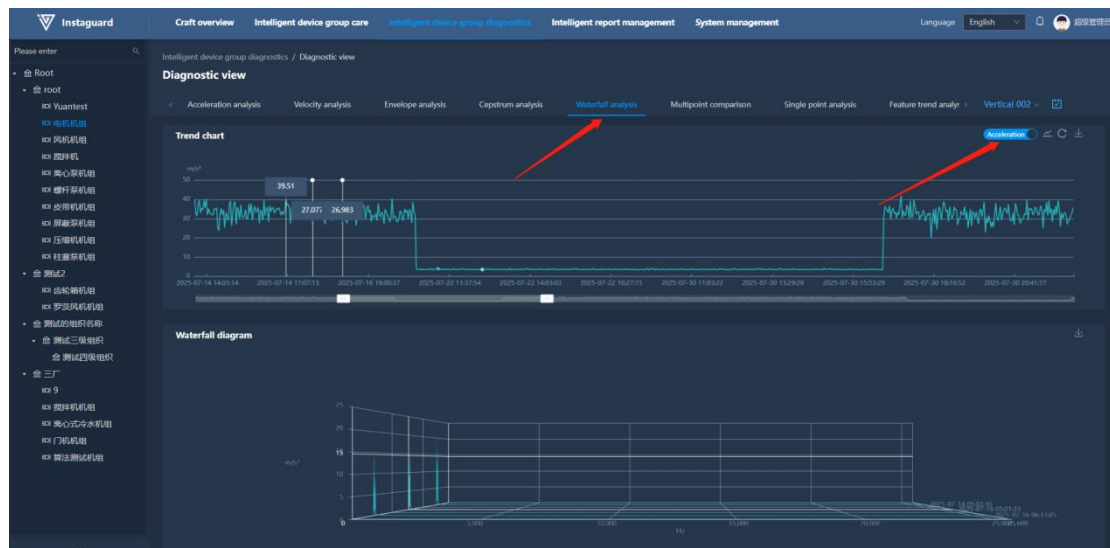
Multi-point Annotation

Enable multi-point annotation on waveform and spectrum charts by clicking the annotation button. Use Ctrl+left-click to annotate points (up to 5 points, displaying specific values).



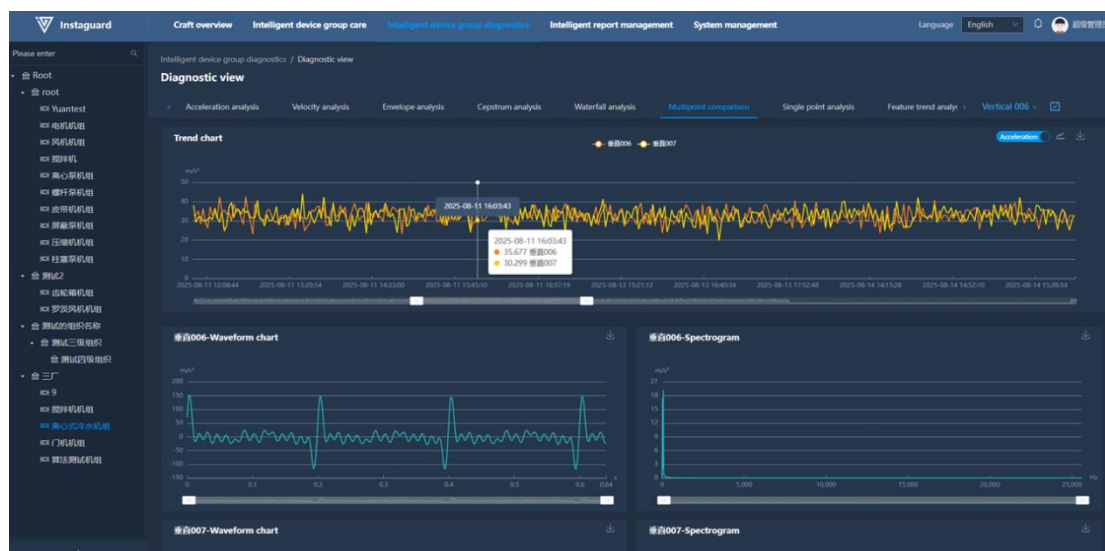
Waterfall View

Click "Waterfall Analysis" to jump to the waterfall view. Use the slider to switch data display types and Ctrl+left-click to select points (up to 5).



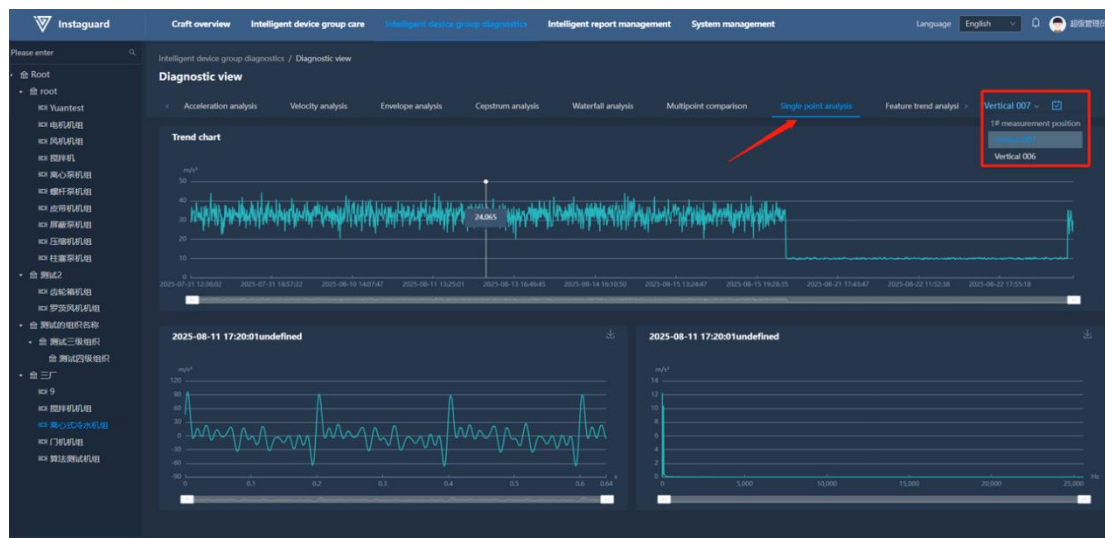
Multi-measuring-point Comparison

Click "Multi-measuring-point Comparison" to jump to the comparison view. Use the slider to switch display types, select measuring points in the drop-down list (up to 5), and view trend data. Click a trend point to show corresponding waveforms/spectra below.



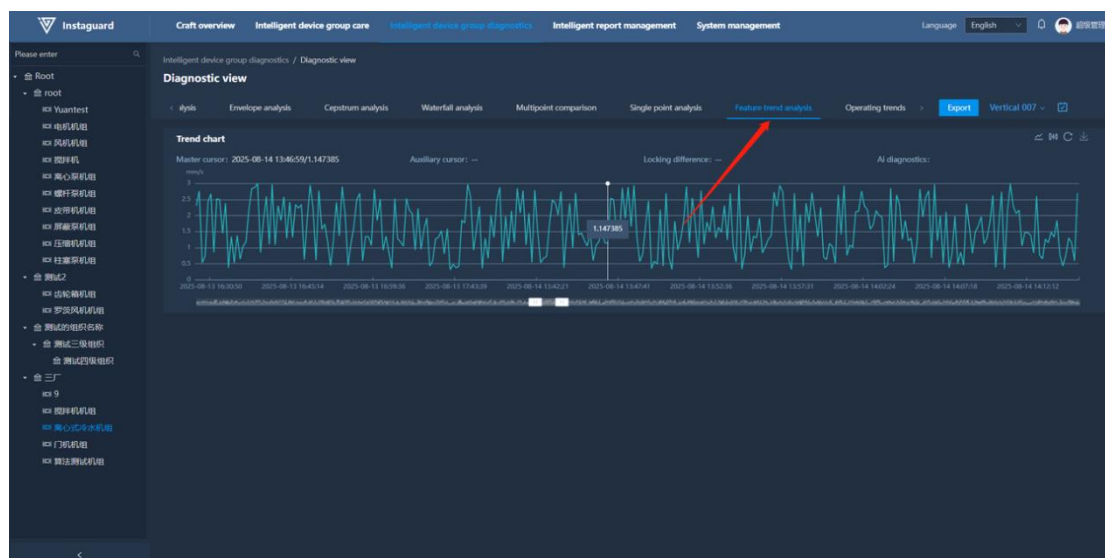
Single-measuring-point Comparison

Click "Single-measuring-point Analysis" to jump to the analysis view. Use the slider to switch display types and Ctrl+left-click to select points (up to 5), with clicked time points shown below.



Characteristic Trend Analysis

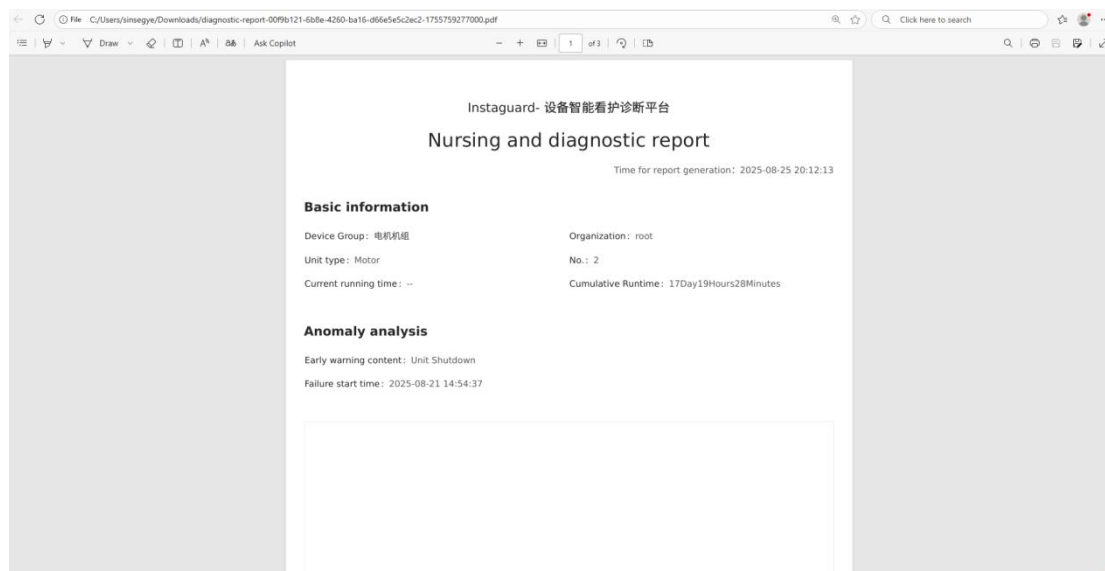
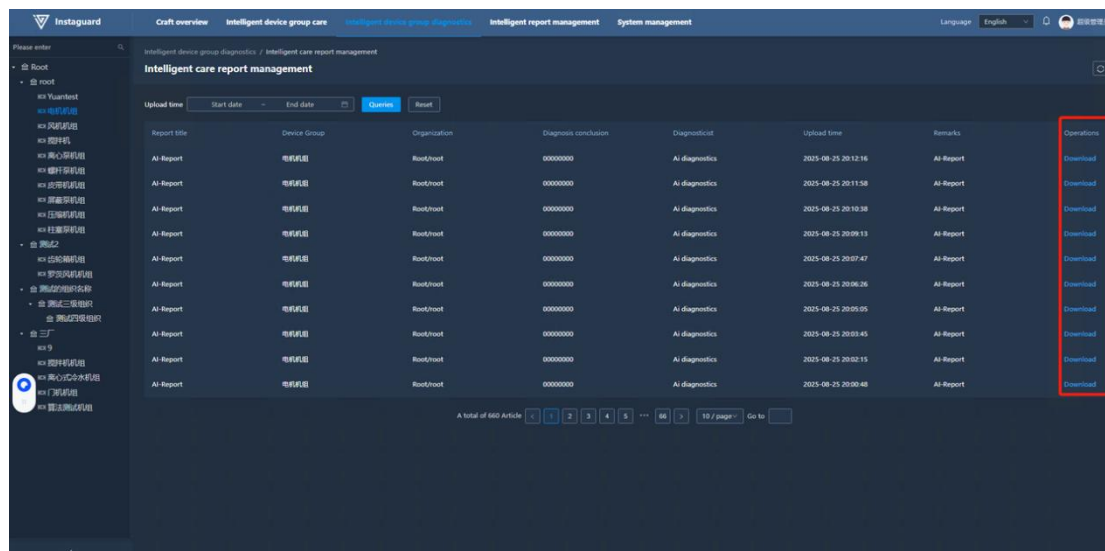
Click "Characteristic Trend Analysis" to jump to the analysis view. Switch between characteristic trend displays via the measuring point drop-down list, with clicked time points shown below.



2.5.2 Intelligent Care Report Management

Navigation Path

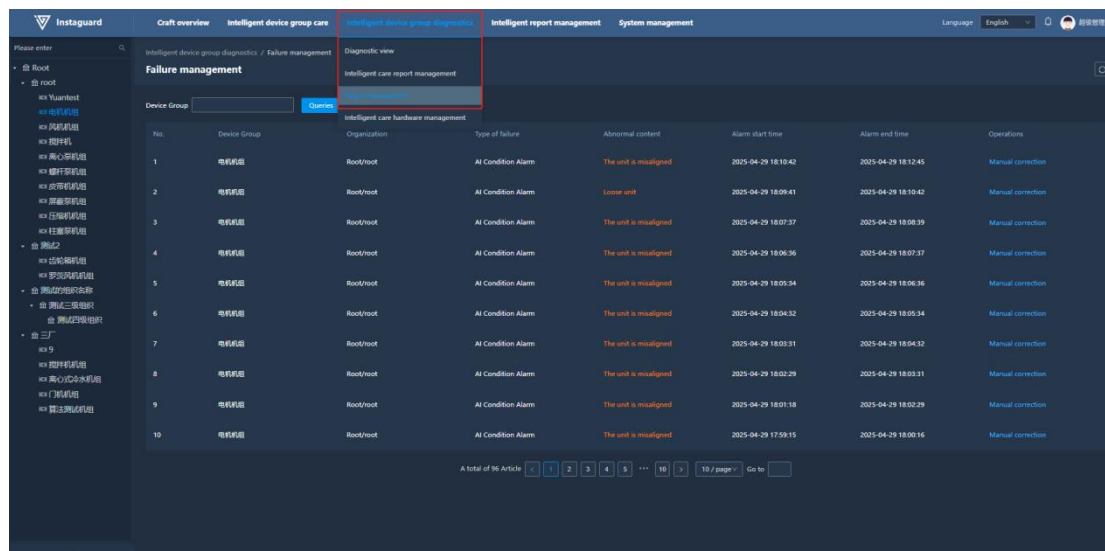
「Intelligent Unit Diagnosis」 → 「Intelligent Care Report Management」



2.5.3 Abnormality Management

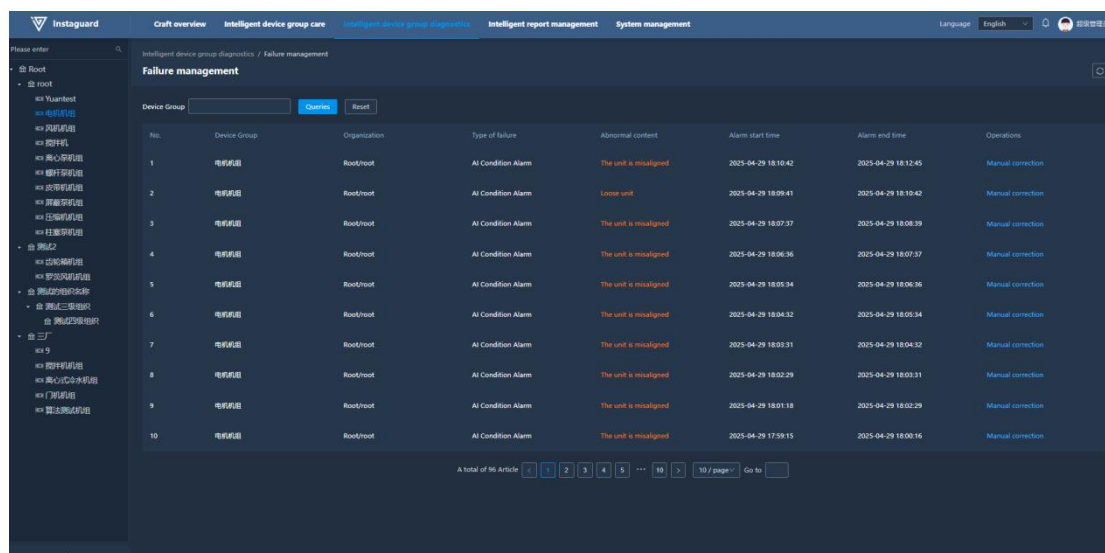
Navigation Path

「Intelligent Unit Diagnosis」 → 「Abnormality Management」



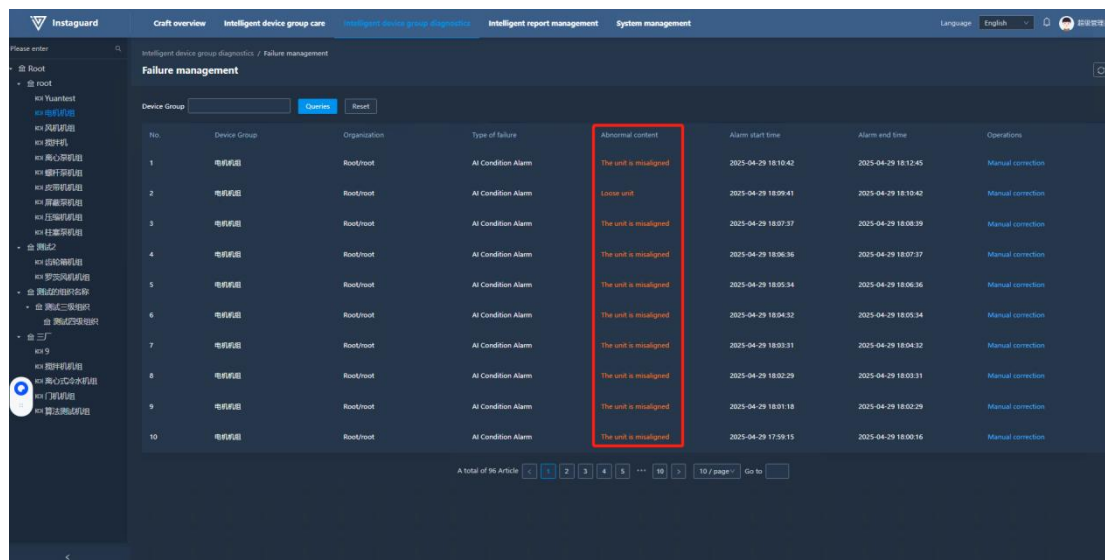
Function Overview

Monitor and manage production abnormalities in real-time, enabling timely actions to ensure production safety and efficiency.



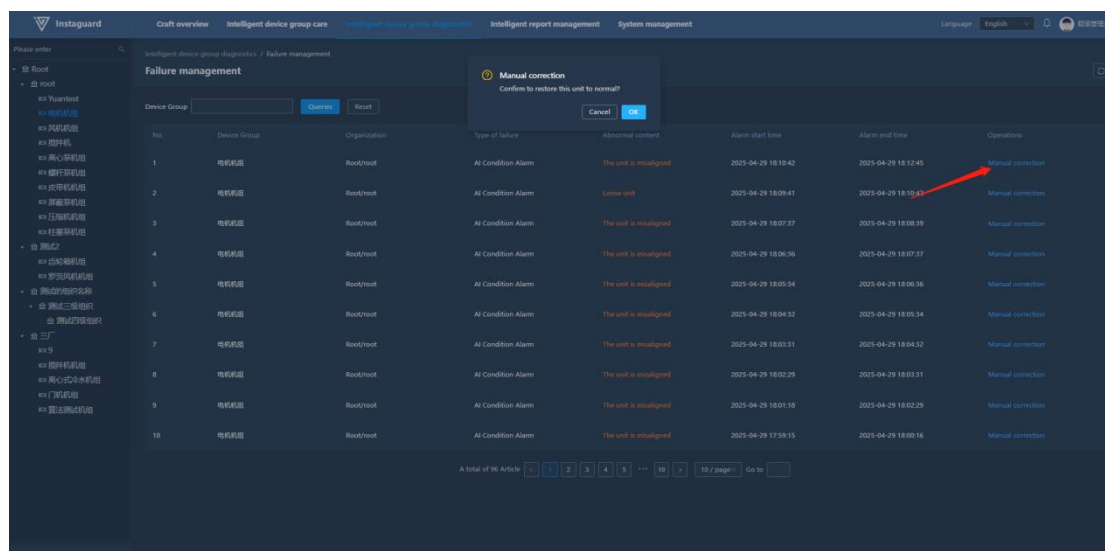
Abnormality Content

Click "Abnormality Content" to jump to the corresponding diagnostic view.



Manual Correction

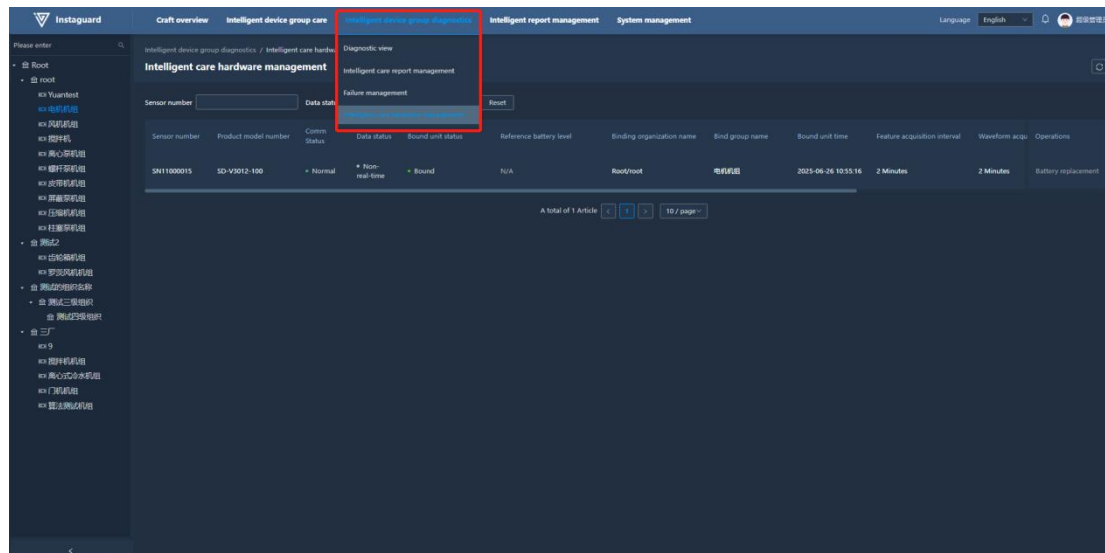
Click the "Manual Correction" button behind an abnormality to mark it as normal.



2.5.4 Intelligent Care Hardware Management

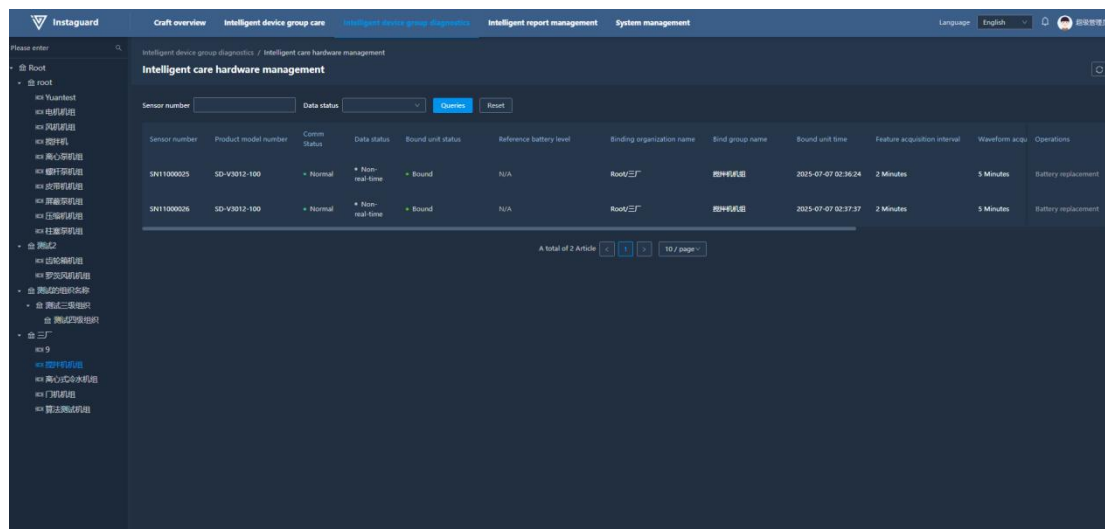
Navigation Path

「Intelligent Unit Diagnosis」 → 「Intelligent Care Hardware Management」



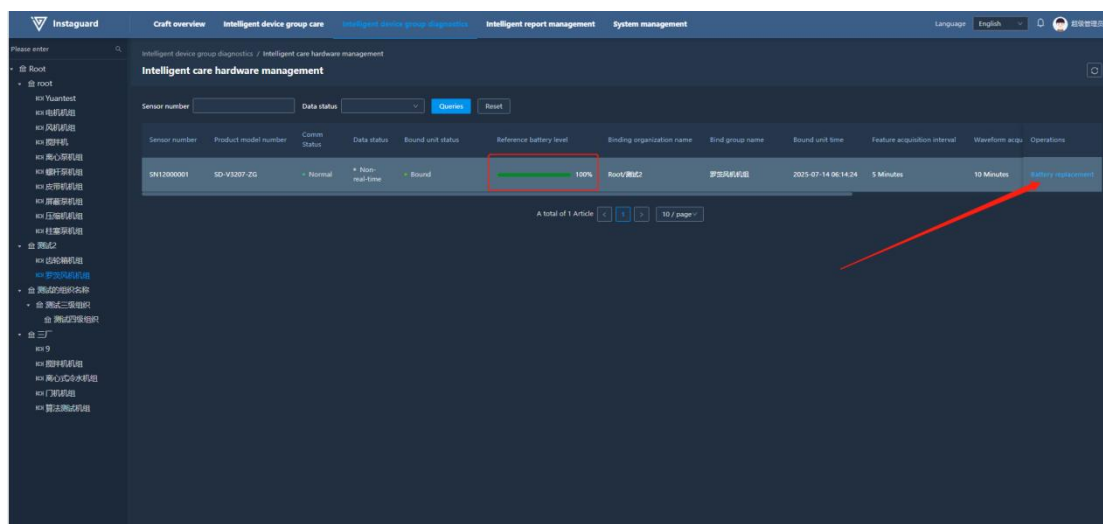
Function Overview

Monitor and manage the status of intelligent care hardware to ensure normal operation and maintenance.



Battery Replacement

Click the "Battery Replacement" button after replacing the battery to reset the battery level, which will be displayed as:



Communication Status

The communication status is categorized into Normal, Delayed, and Offline.

Normal: The status is considered normal when sensor waveform data is uploaded at the set data upload frequency.

Delayed: The status is marked as delayed when no sensor waveform data has been uploaded for a period greater than or equal to two times the set data upload frequency.

Offline: The status is considered offline when no sensor waveform data has been uploaded for a period greater than or equal to ten times the set data upload frequency.

The screenshot shows the 'Intelligent device group diagnostics / Intelligent care hardware management' page. The table lists sensor data for multiple units. The 'Comm Status' column is highlighted with a red box.

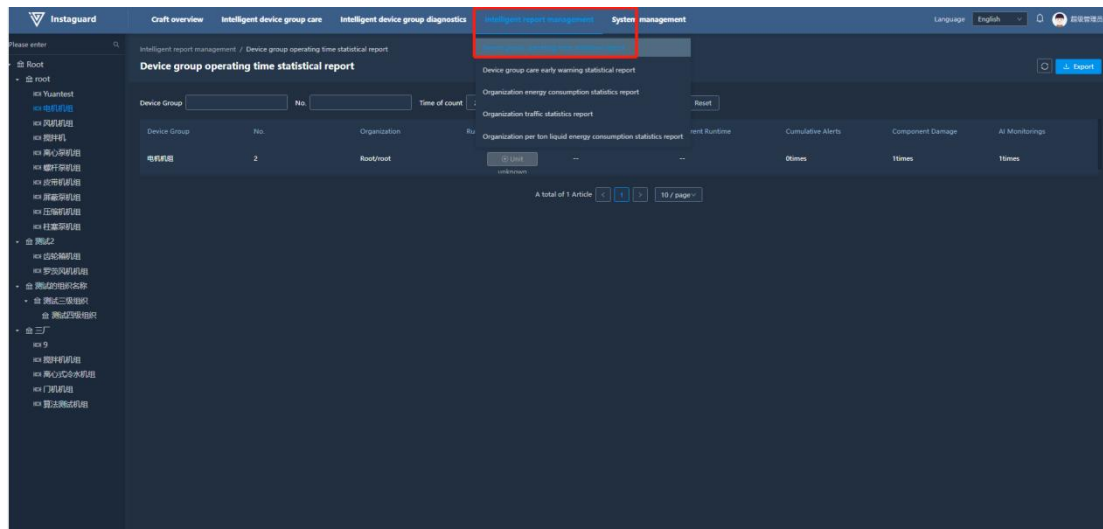
Sensor number	Product model number	Comm Status	Data status	Bound unit status	Reference battery level	Binding organization name	Bind group name	Bound unit time	Feature acquisition interval	Waveform acqu.	Operations
SN1100012	SD-V3012-100	Normal	Non-real-time	Bound	N/A	Root/测试	风机测试	2025-07-16 05:01:12	2 Minutes	5 Minutes	Battery replacement
SN1100017	SD-V3012-100	Normal	Non-real-time	Bound	N/A	Root/测试	风机测试	2025-07-16 05:06:02	2 Minutes	5 Minutes	Battery replacement
SN1100043	SD-V3012-100	Normal	Non-real-time	Bound	N/A	Root/测试	风机测试	2025-07-16 05:23:50	2 Minutes	5 Minutes	Battery replacement
SN1100019	SD-V3012-100	Normal	Non-real-time	Bound	N/A	Root/测试	风机测试	2025-07-16 04:50:19	2 Minutes	5 Minutes	Battery replacement
SN1100034	SD-V3012-100	Normal	Non-real-time	Bound	N/A	Root/测试	风机测试	2025-07-16 04:49:16	2 Minutes	2 Minutes	Battery replacement
SN1100020	SD-V3012-100	Normal	Non-real-time	Bound	N/A	Root/测试	风机测试	2025-07-16 05:00:36	2 Minutes	5 Minutes	Battery replacement
SN1100036	SD-V3012-100	Normal	Non-real-time	Bound	N/A	Root/测试	风机测试	2025-07-16 04:50:55	2 Minutes	5 Minutes	Battery replacement
SN1100041	SD-V3012-100	Normal	Non-real-time	Bound	N/A	Root/测试	风机测试	2025-07-16 05:23:19	2 Minutes	5 Minutes	Battery replacement
SN1100037	SD-V3012-100	Normal	Non-real-time	Bound	N/A	Root/测试	风机测试	2025-07-16 04:50:36	2 Minutes	5 Minutes	Battery replacement
SN1100040	SD-V3012-100	Normal	Non-real-time	Bound	N/A	Root/测试	风机测试	2025-07-16 05:23:03	2 Minutes	5 Minutes	Battery replacement

2.6 Intelligent Report Management

2.6.1 Unit Operation Time Statistical Report

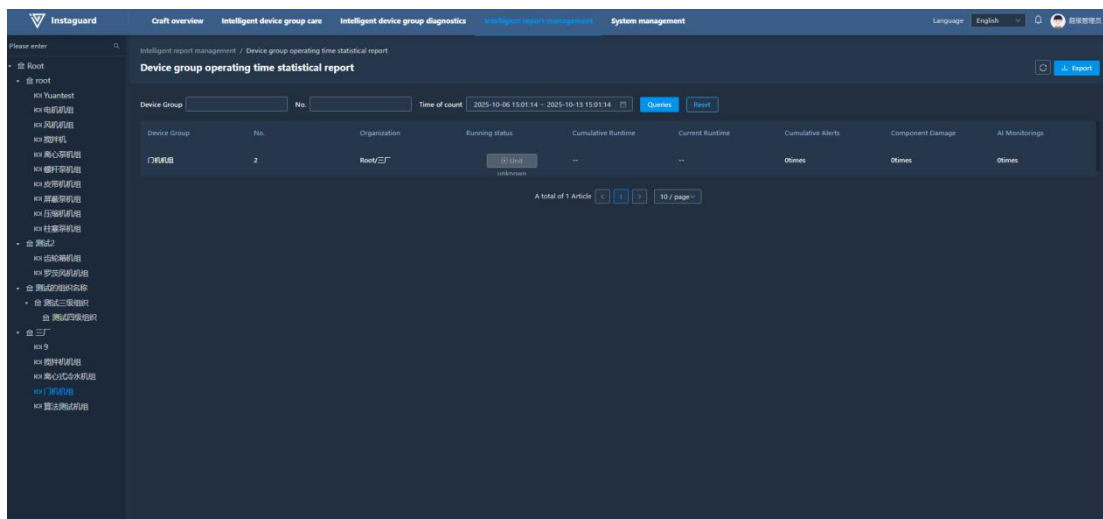
Navigation Path

「Intelligent Report Management」 → 「Unit Operation Time Statistical Report」



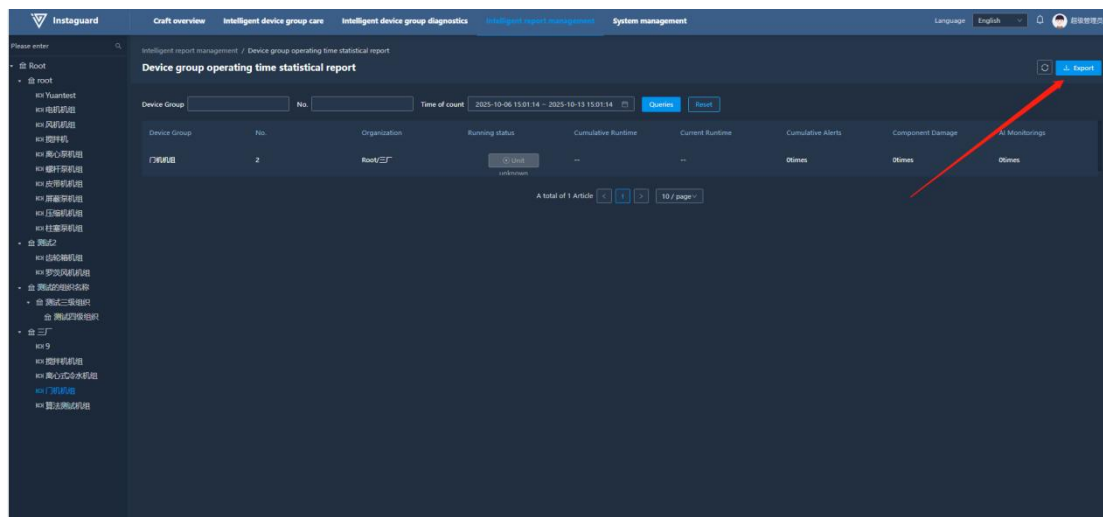
Function Overview

Monitors and collects the operating hours and other relevant data of the equipment unit, helping users understand the operational status of the unit for effective management and maintenance.



Data Export

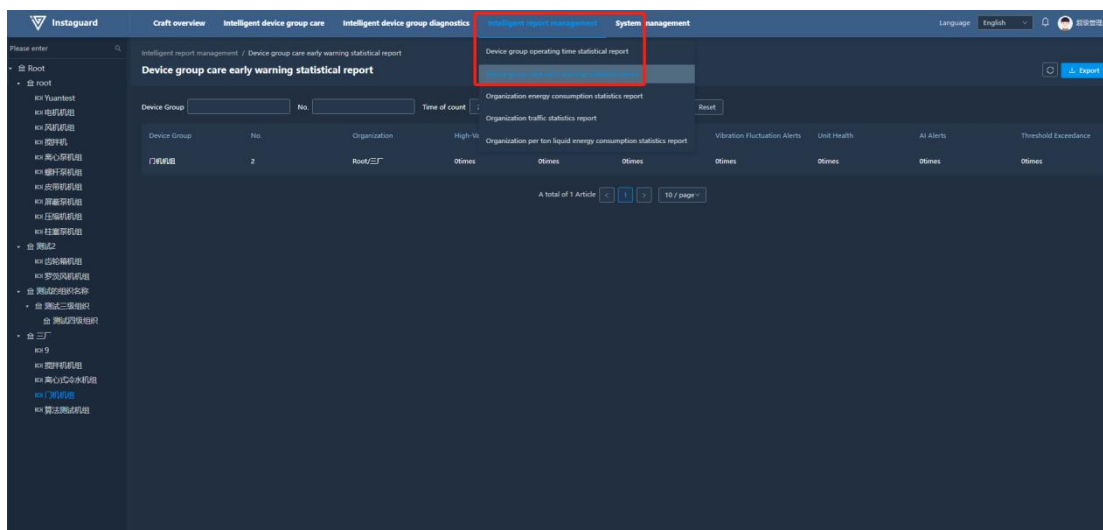
Click the "Export" button at the upper-right of the report to export displayed data as an XLS file named "Unit Operation Time Statistical Report".



2.6.2 Equipment Unit Monitoring Alert Statistical Report

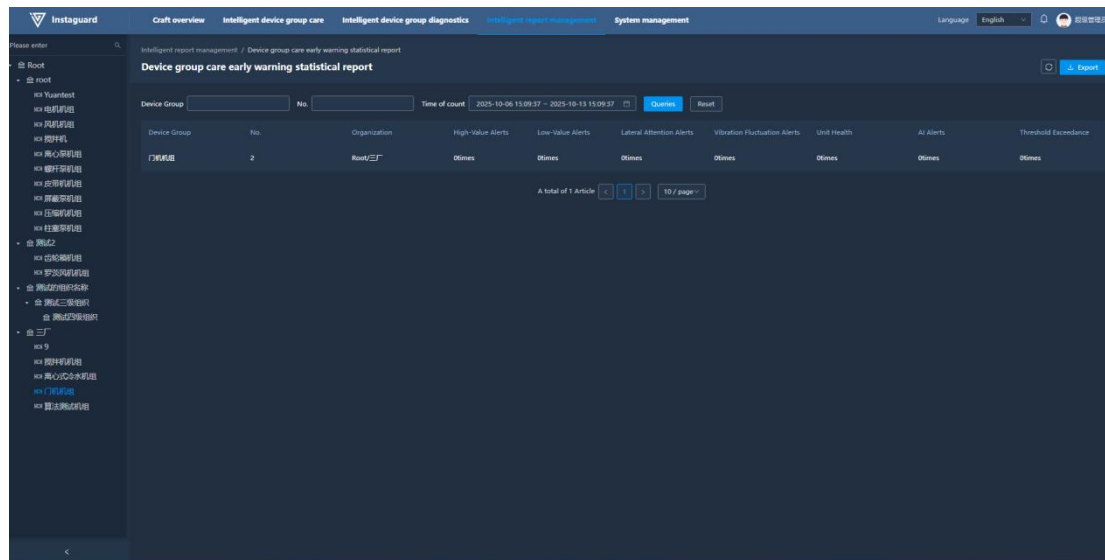
Navigation Path

Intelligent Report Management→ Equipment Unit Monitoring Alert Statistical Report



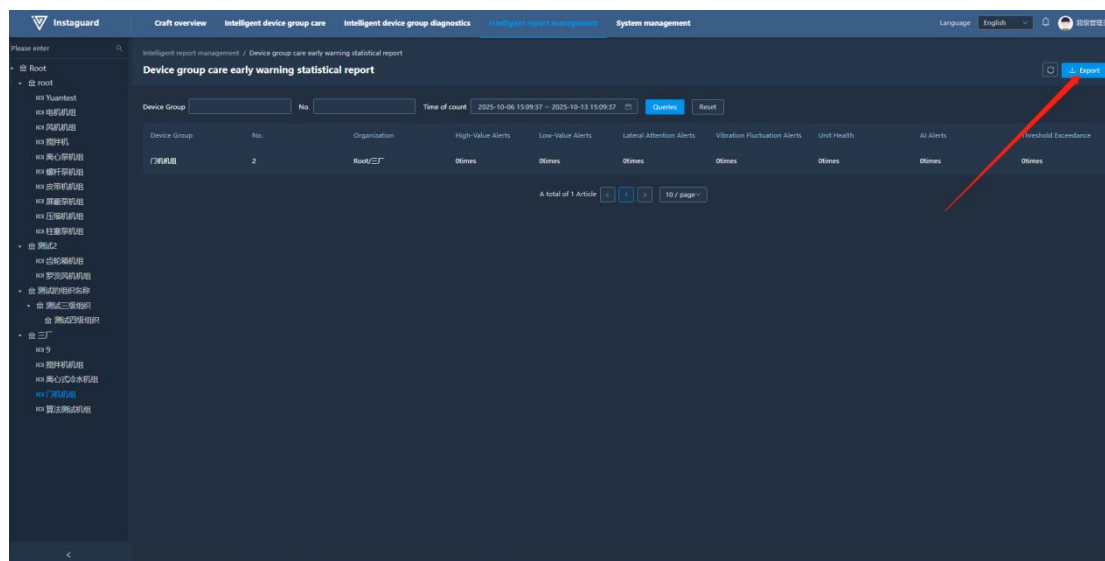
Function Overview

Monitors and manages the operational status of equipment units. By counting the occurrences of various alerts, it helps users promptly identify and address potential issues, ensuring the normal operation and maintenance of the units.



Data Export

After entering the report, click the export button in the upper right corner to export the currently displayed data. The export format is XLS, and the file name is: Equipment Unit Monitoring Alert Statistical Report.

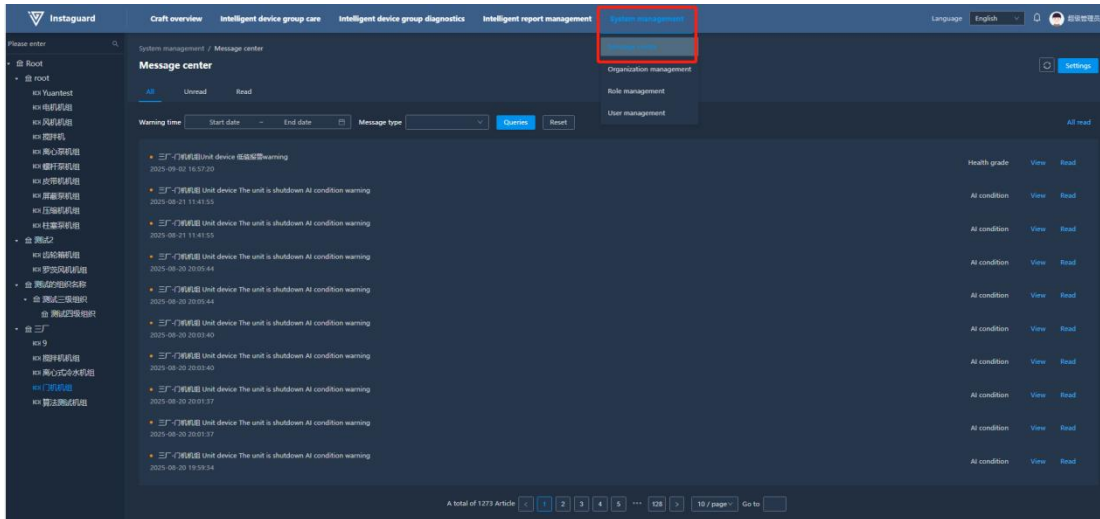


2.7System Management

2.7.1Message Center

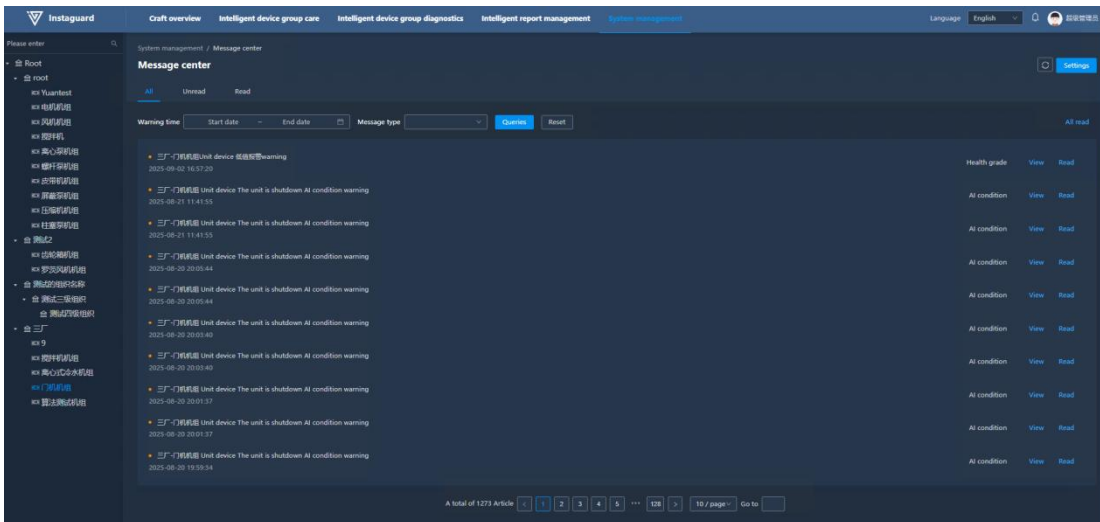
Navigation Path

「System Management」 → 「Message Center」



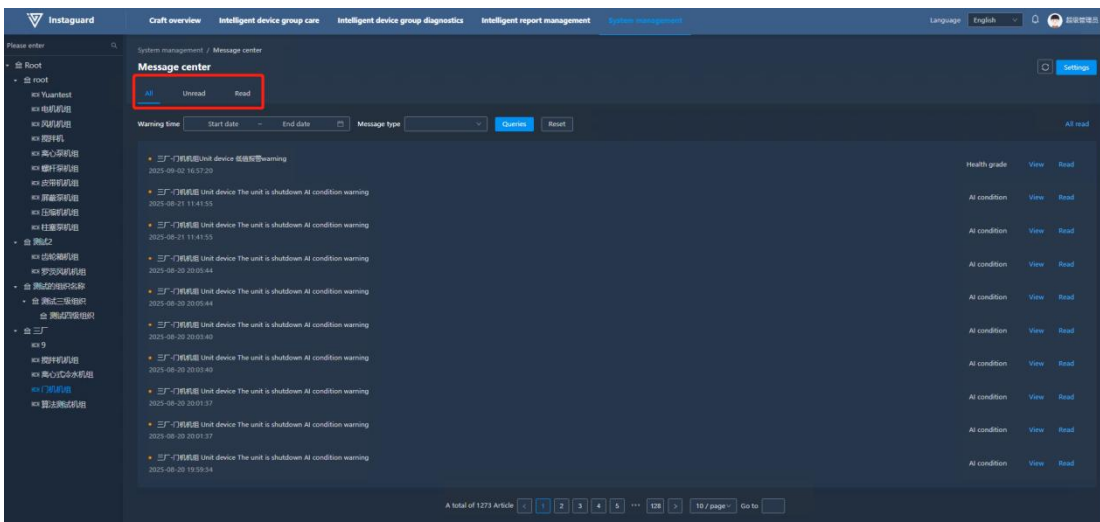
Function Overview

View system notifications in detail and set notification frequency, method, and unit scope as needed.



Message List

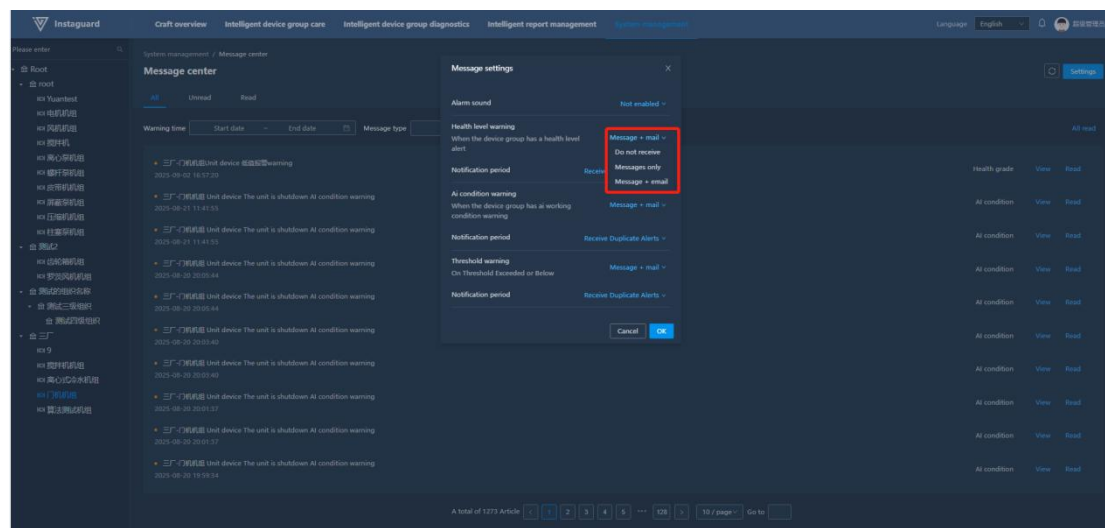
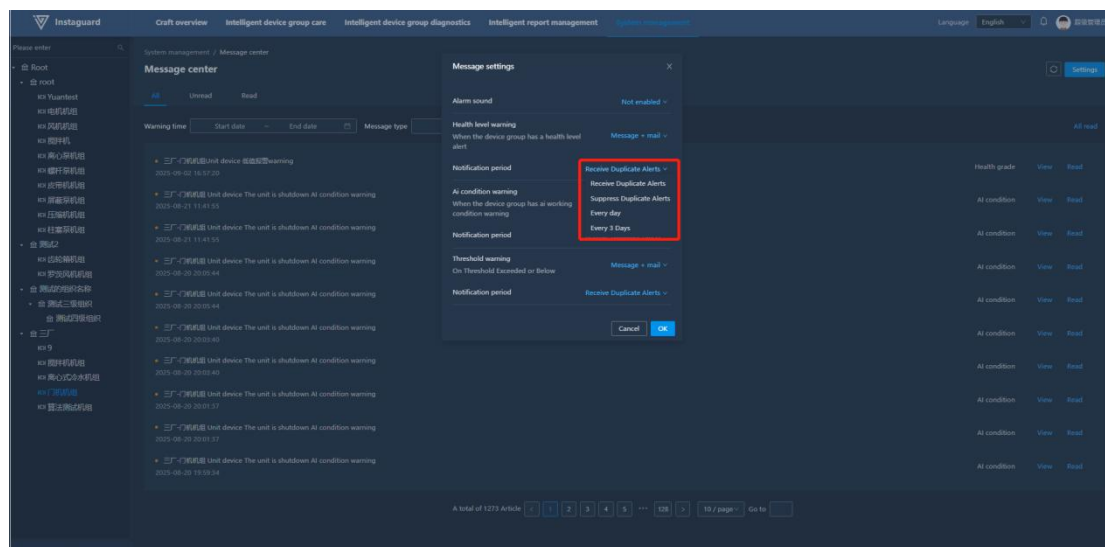
View system messages receivable by the current user, filtered by read status.



Message Settings

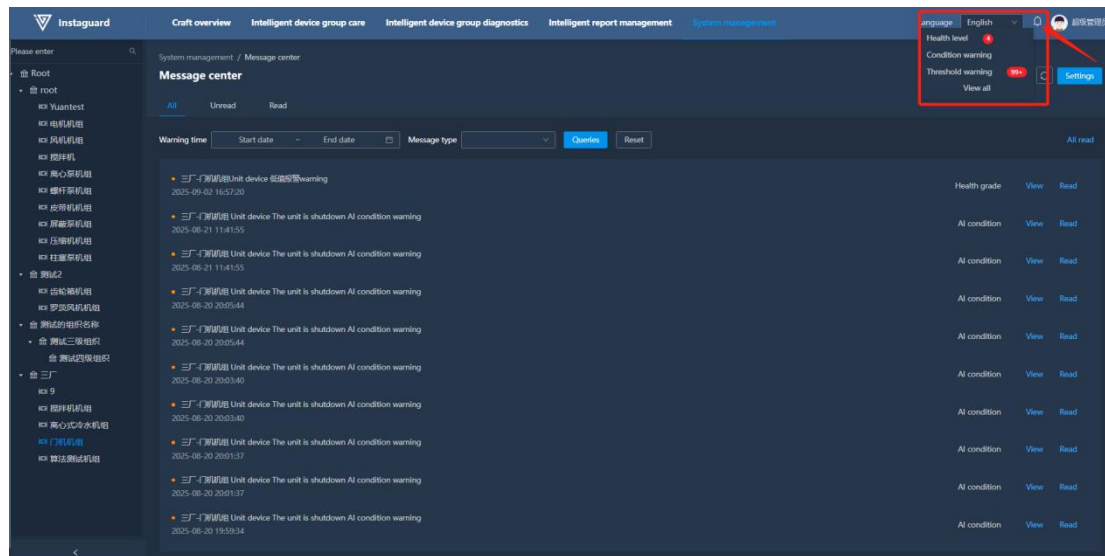
Click "Settings" at the upper-right to configure notification periods and methods for four message types:

- Notification periods: "When Occurs", "Every 6 Hours" (9:00, 15:00, 21:00, 3:00), "Daily" (9:00).
- Receiving methods: "Only Message", "Message + SMS + Email", "Do Not Receive".



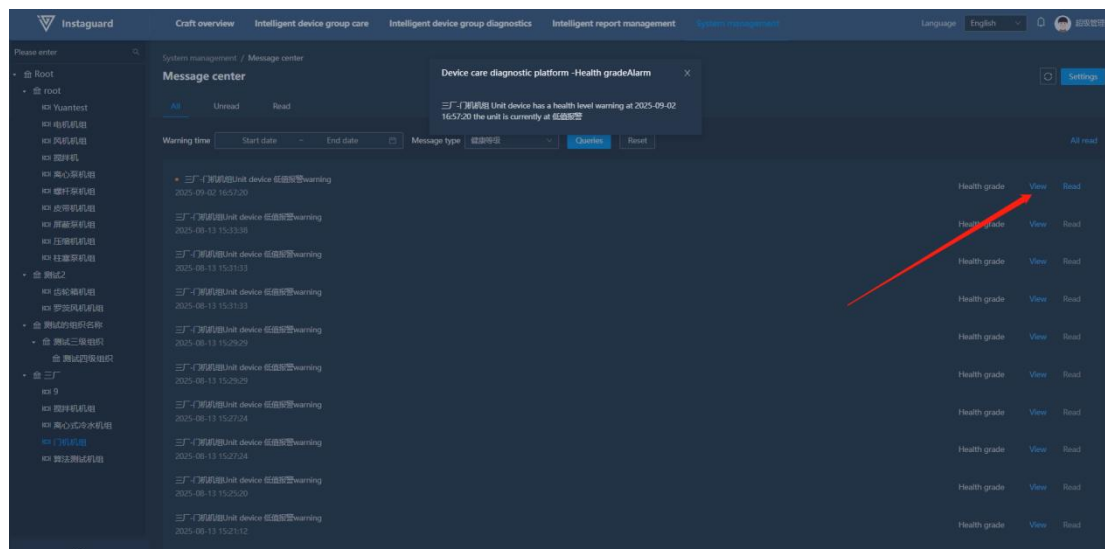
Message Count Overview

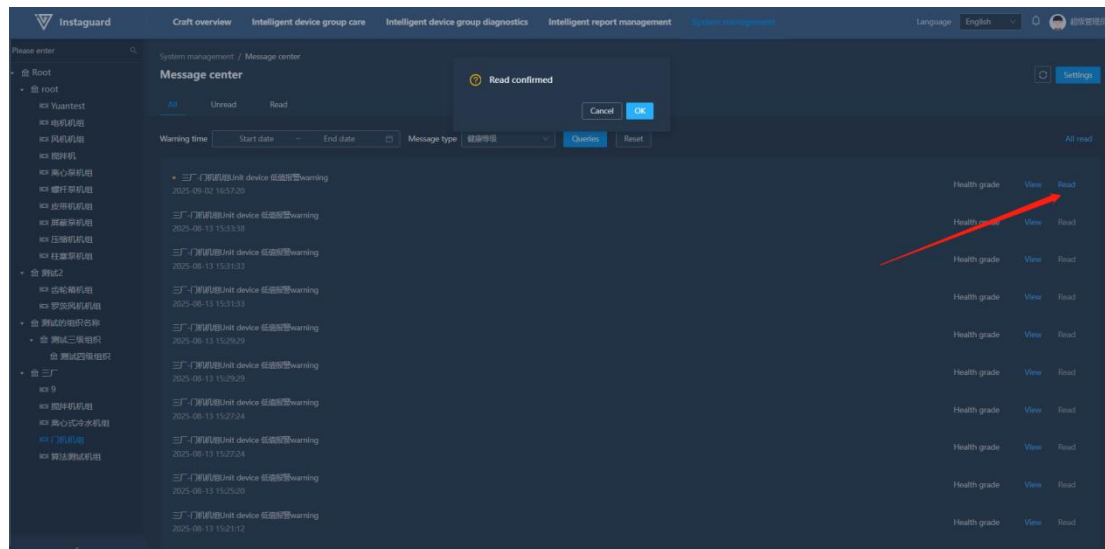
After setting cared units and enabling message reception, view unread message counts by type via the message icon next to the user avatar. Click to jump to the message management page.



View/Mark as Read

Select a message and click "View" to show details, or "Mark as Read" to update its status.

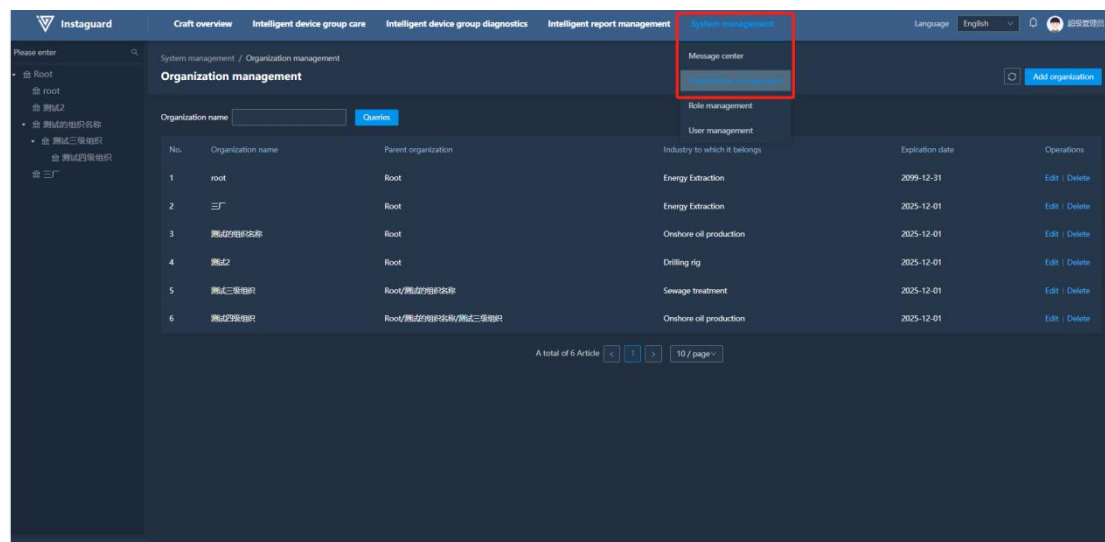




2.7.2 Organization Management

Navigation Path

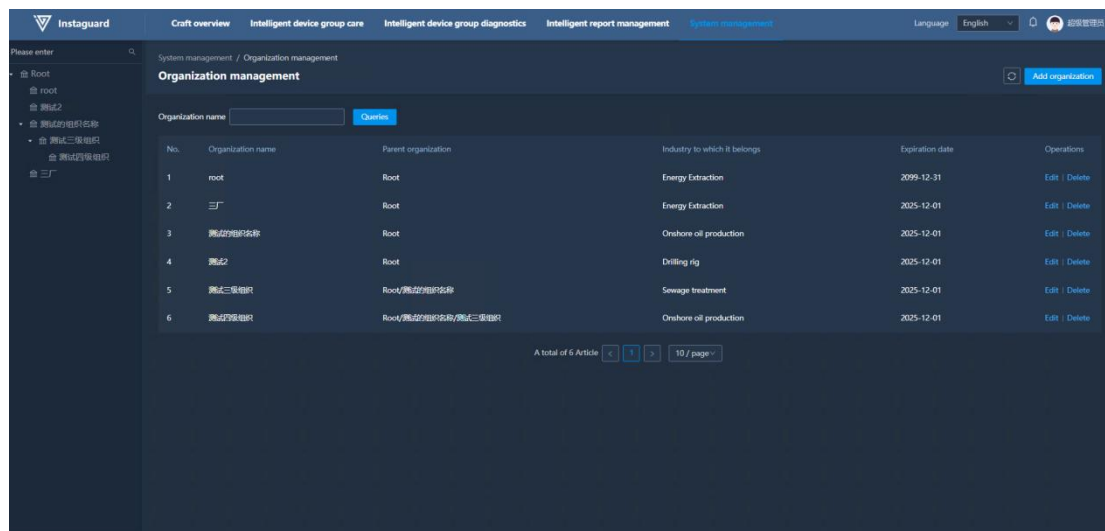
「System Management」 → 「Organization Management」



Function Overview

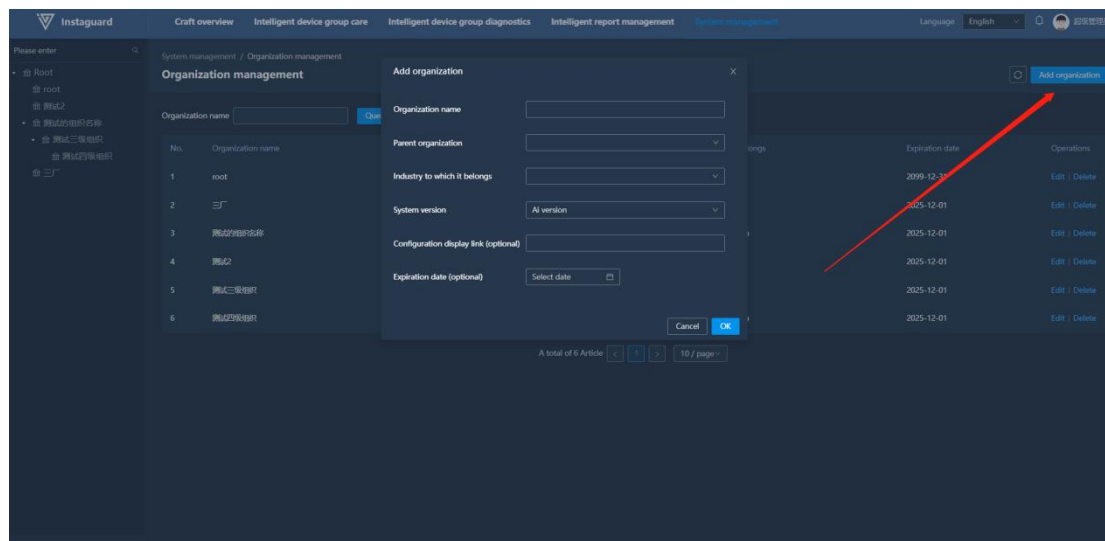
Add/delete organizations and adjust their position in the organization tree.

Sub-organization names must be unique under the same parent organization.



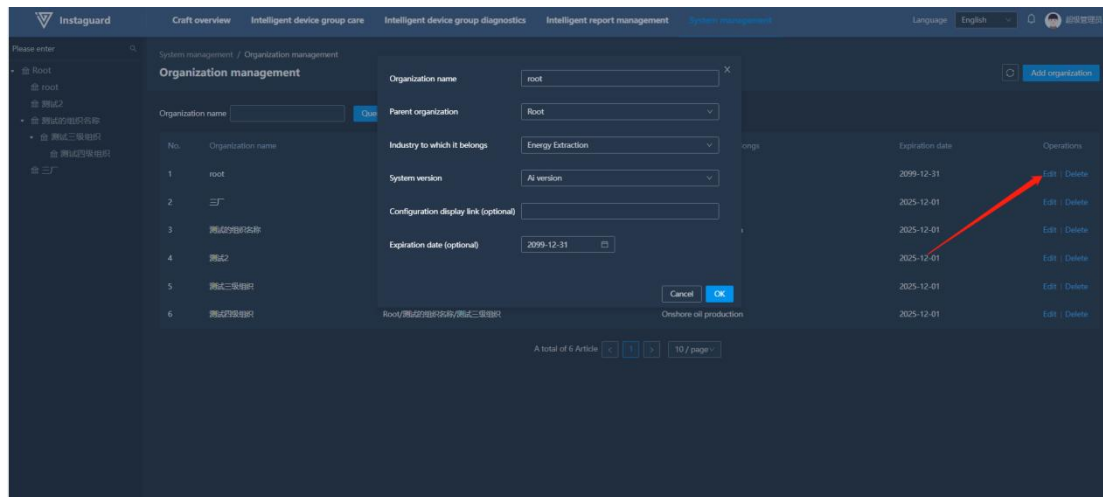
Adding Organizations

Click "Add Organization" at the upper-right in Organization Management to open the addition page.



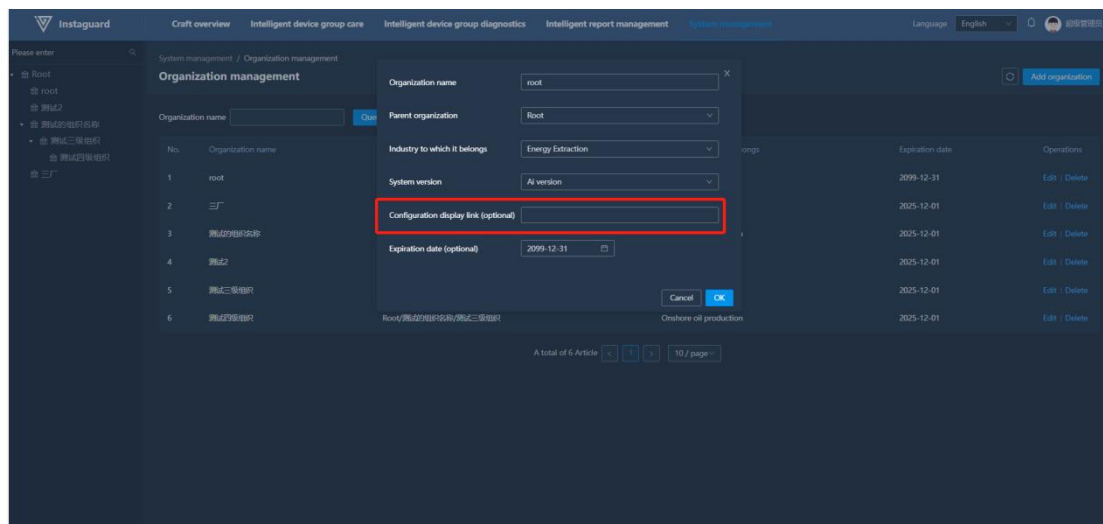
Editing Organizations

Click "Edit" for an organization to open the editing page (sub-organization names must be unique).



Configuration Address Editing

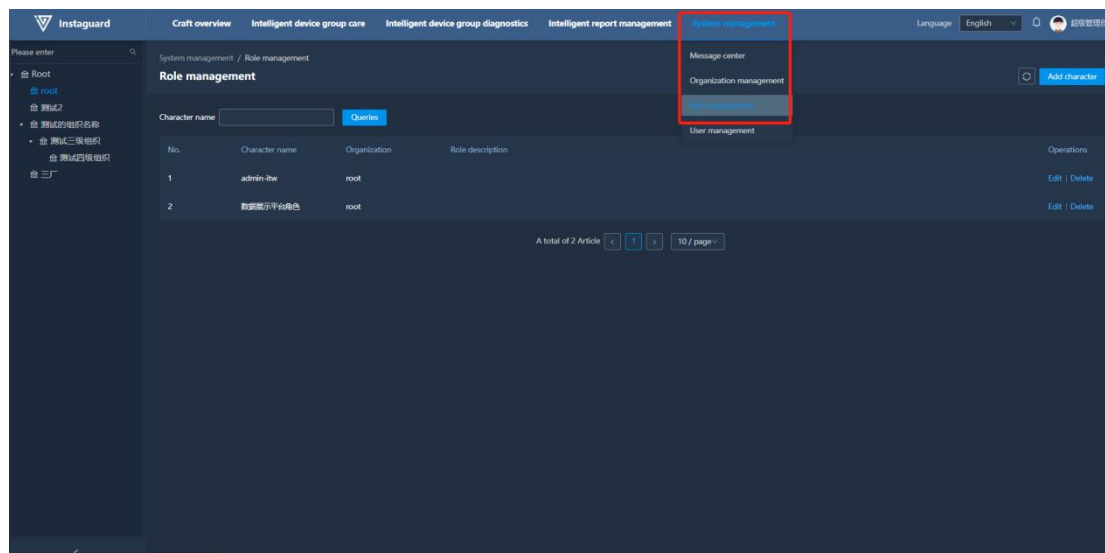
Enter the configuration chart URL (drawn by Instaguard or third-party) in "Configuration Display Link" when editing an organization. Saved configurations will display in the process configuration page.



2.7.3 Role Management

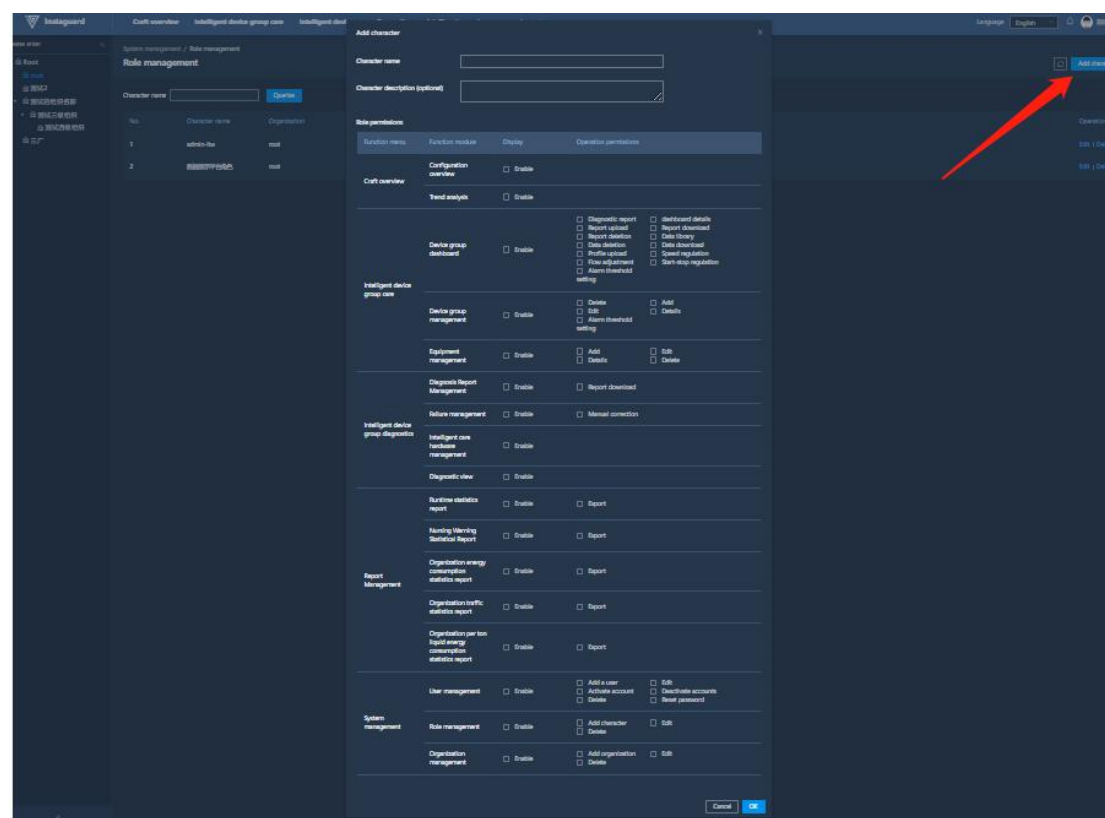
Navigation Path

「System Management」 → 「Role Management」



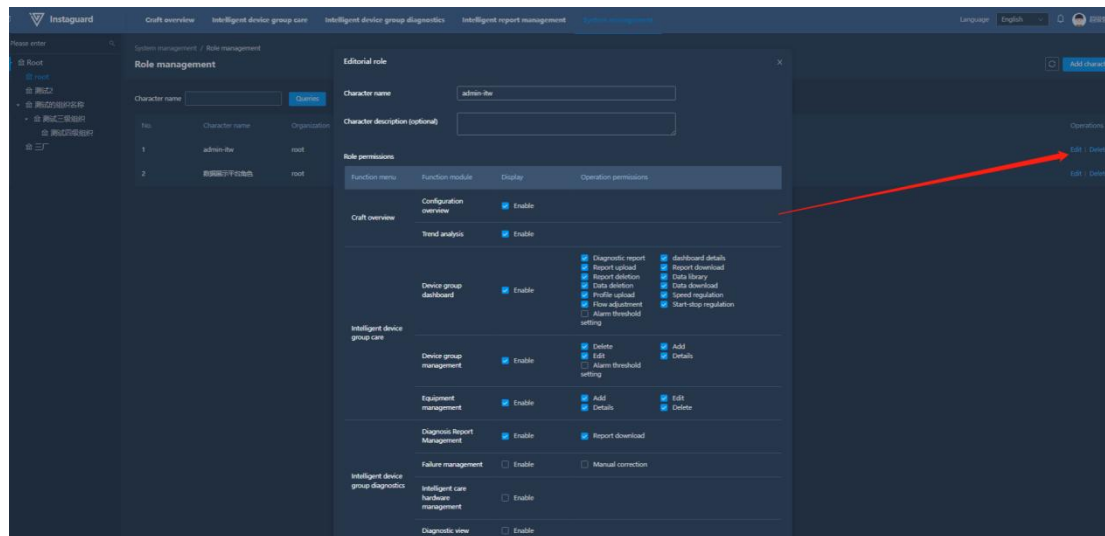
Adding Roles

Click "Add Role" at the upper-right in Role Management to open the addition page (roles belong to selected organizations, with unique names and customizable permissions).



Editing Roles

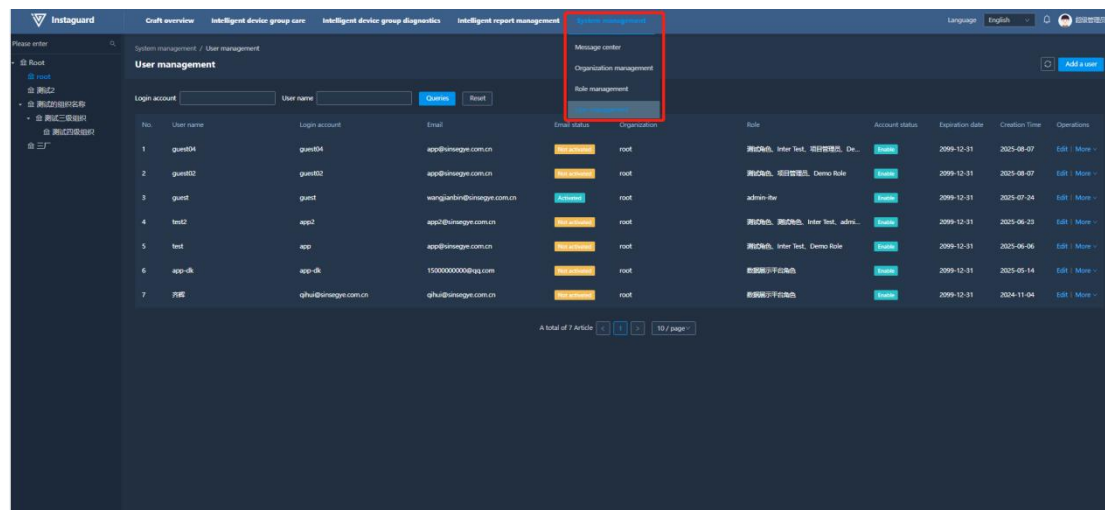
Click "Edit" for a role to modify its permissions (role names must be unique).



2.7.4 User Management

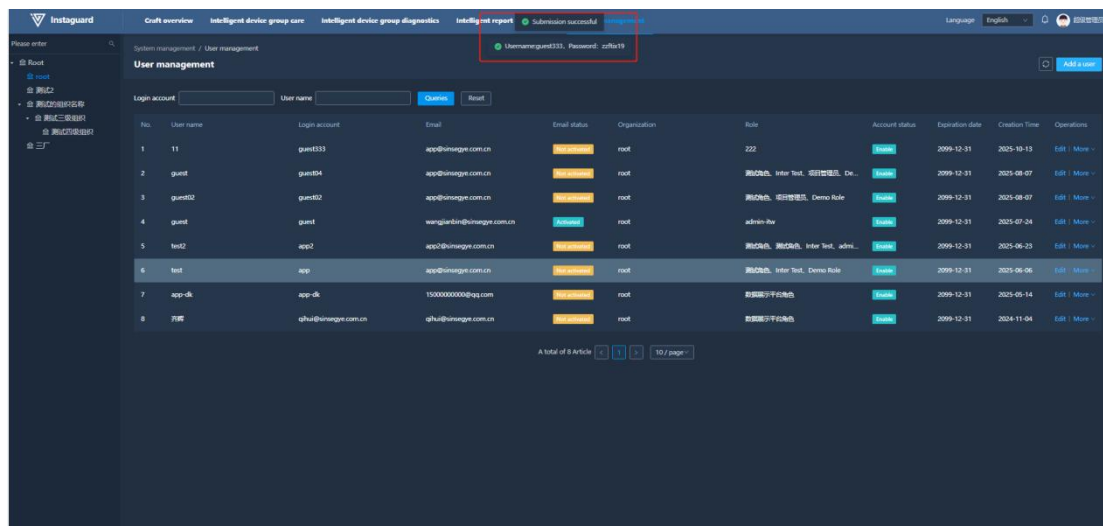
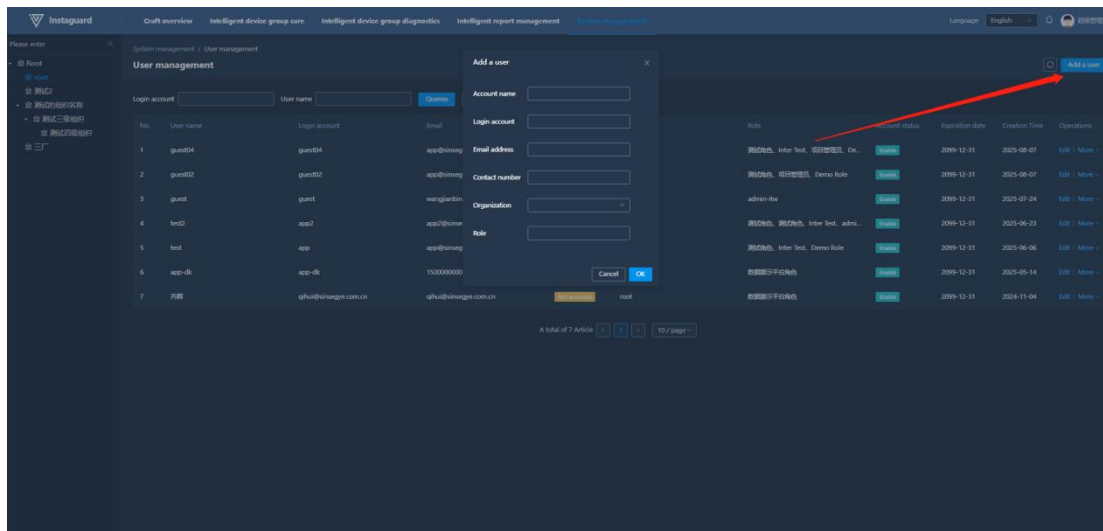
Navigation Path

「System Management」 → 「User Management」



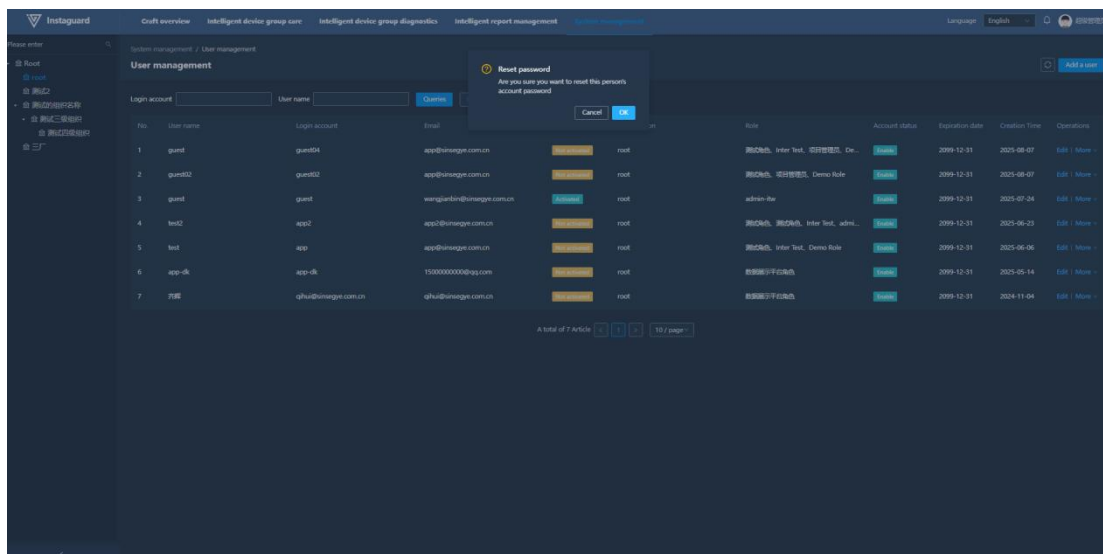
Adding Users

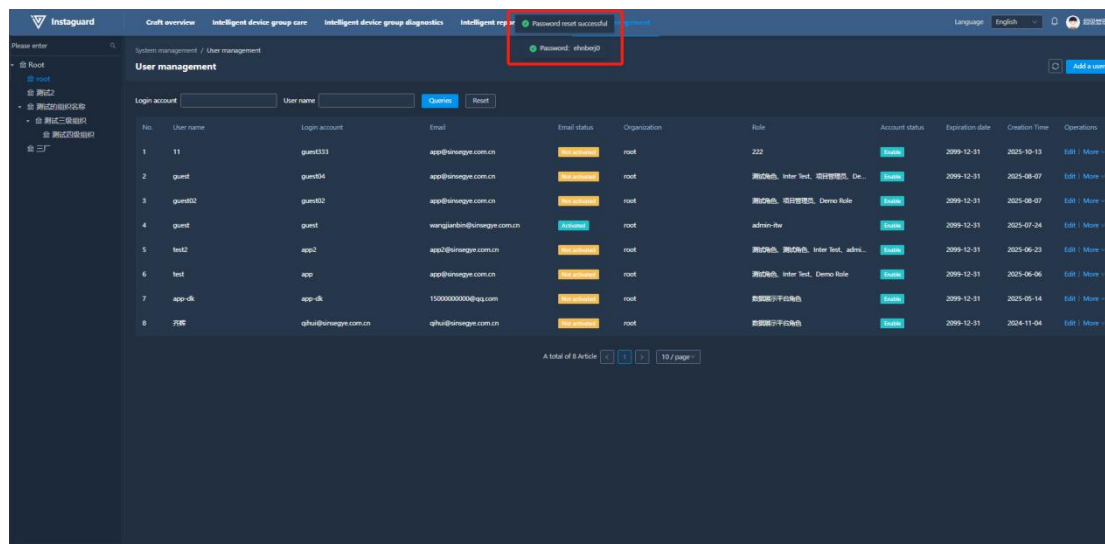
Click "Add User" at the upper-right in User Management to open the addition page (login accounts are unique, ≥8 characters).



Resetting Passwords

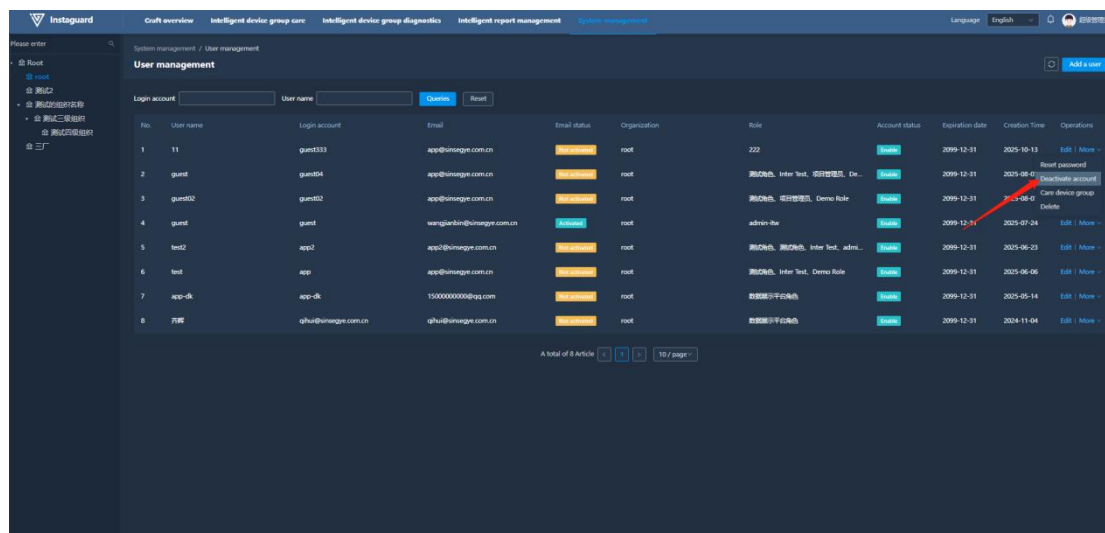
Click "Reset Password" for a user to reset their password.





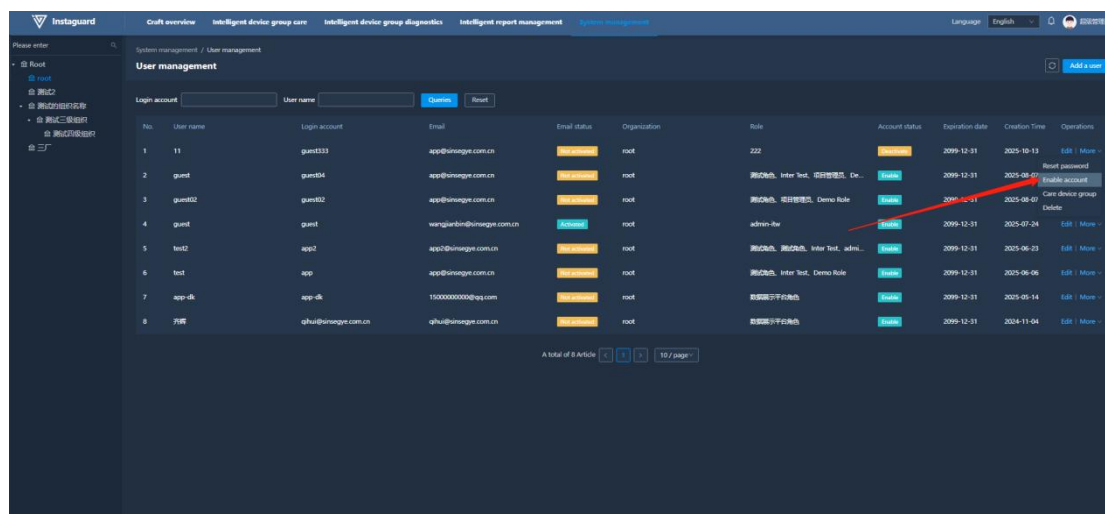
Disabling Accounts

Click "Disable Account" for an enabled account to disable it.



Enabling Accounts

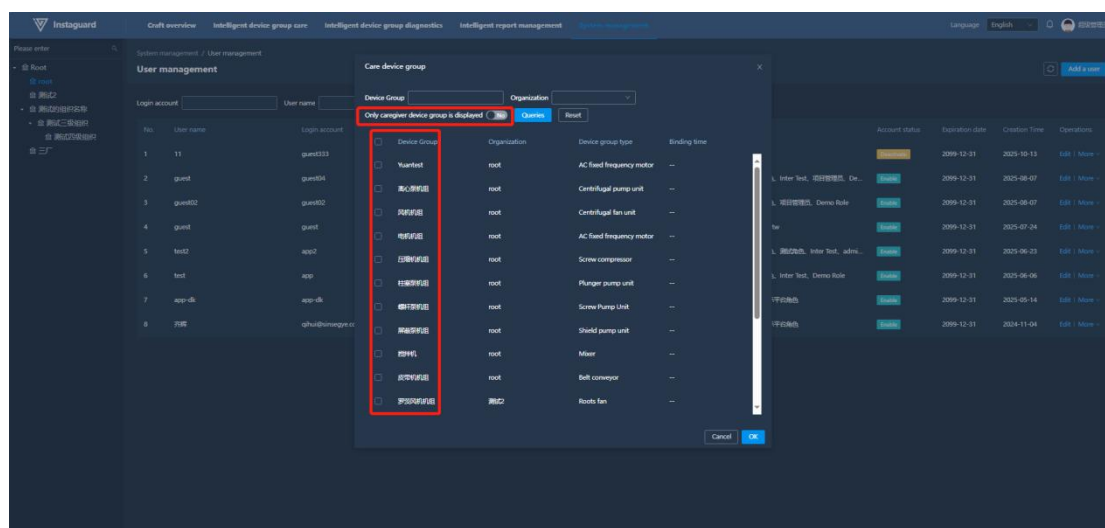
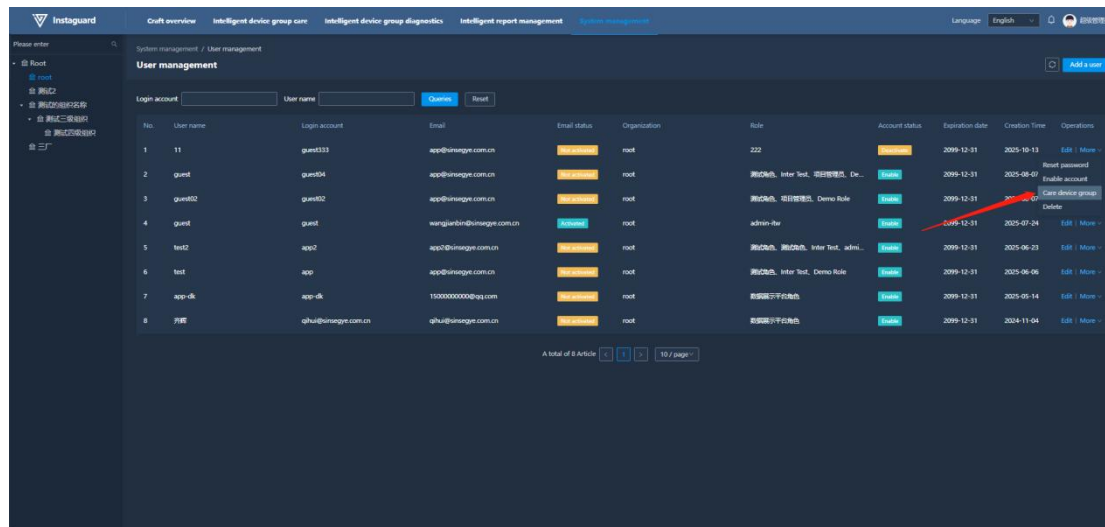
Click "Enable Account" for a disabled account to re-enable it.



Setting Cared Units

Click "Cared Units" in User Management to configure message reception scope.

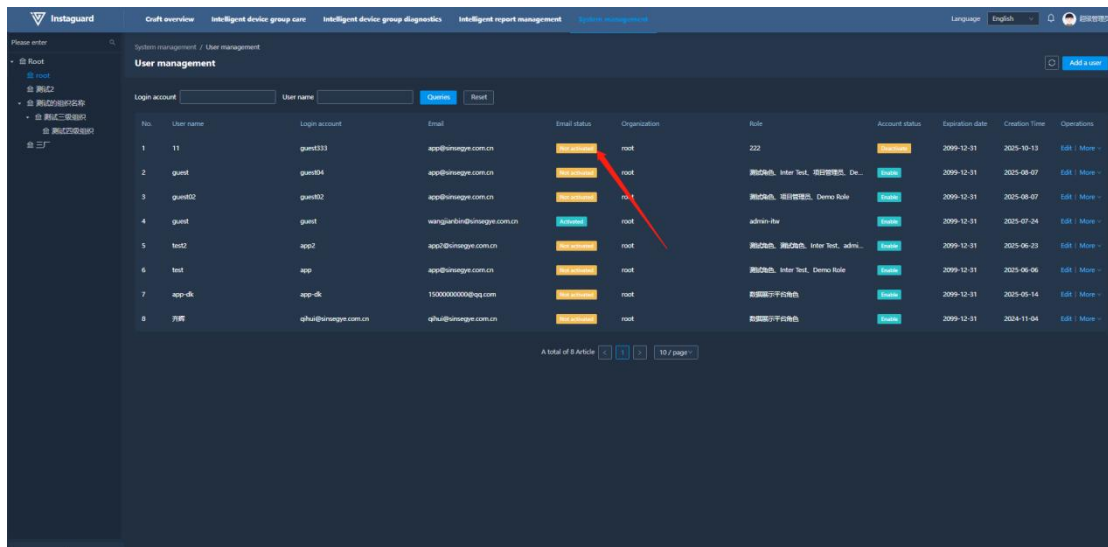
Search units by name/organization or switch via the "Only Show Cared Units" slider.



Email Activation and Email Change

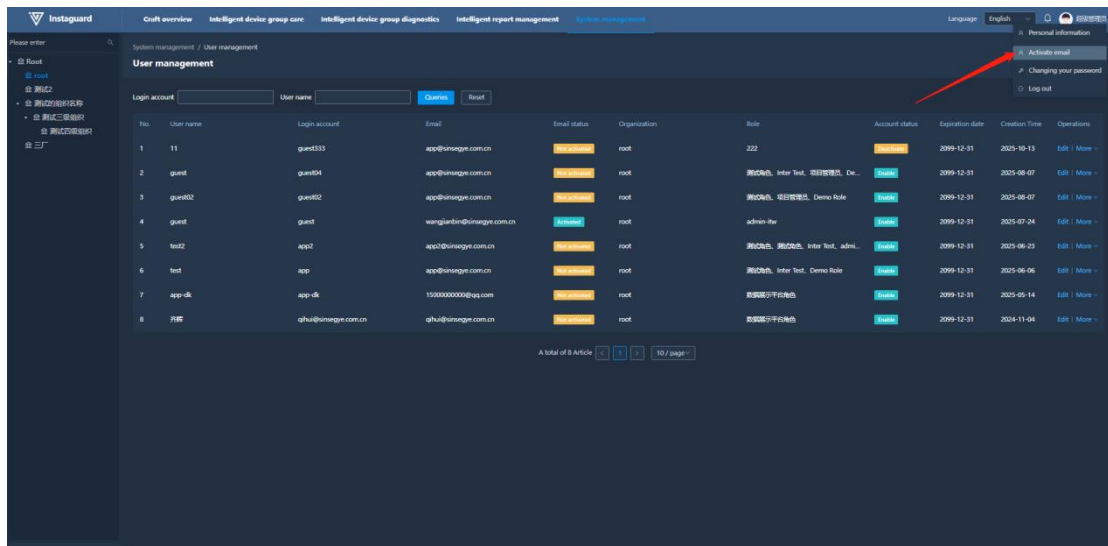
When an administrator creates a new user, the email status defaults to "Inactive."

Existing users' emails are also in an inactive state. Users need to log in to the platform and activate their email addresses themselves. Users with inactive email addresses will not receive notifications from the email system (such as alerts or password reset emails).

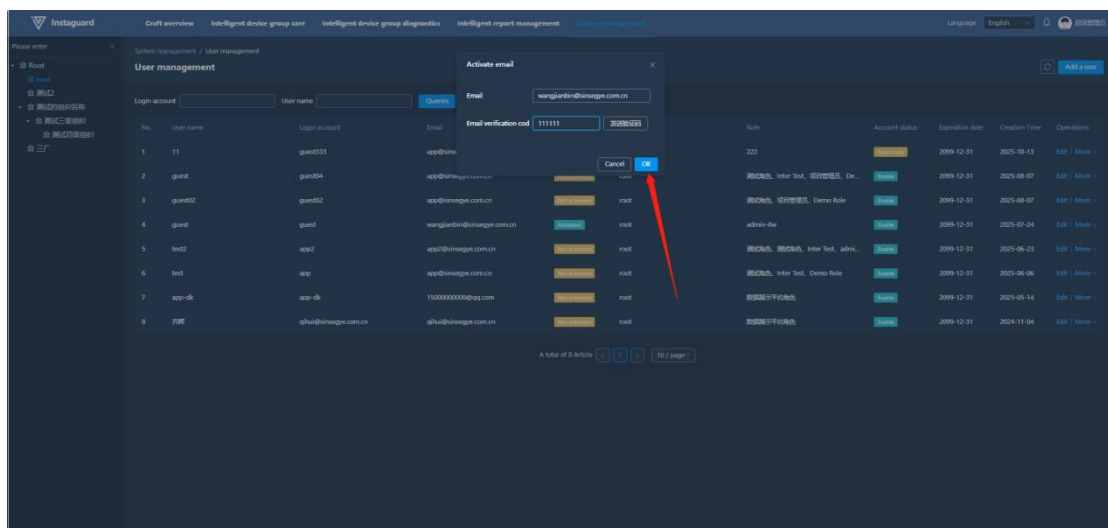


Email Activation

Path: Top-right corner user avatar → Activate Email



Steps:



1.Click "Send Verification Code." A 60-second countdown will begin, after which the code can be resent. Check the email inbox (including the junk folder) to obtain the 6-digit verification code.

2.Enter the verification code. The system validates it in real-time: ✓ Verification successful, ✗ Verification code error.

3.After successful verification, click "Confirm." The email status will be updated to "Activated."

Email Change

Path: User Avatar → Change Email

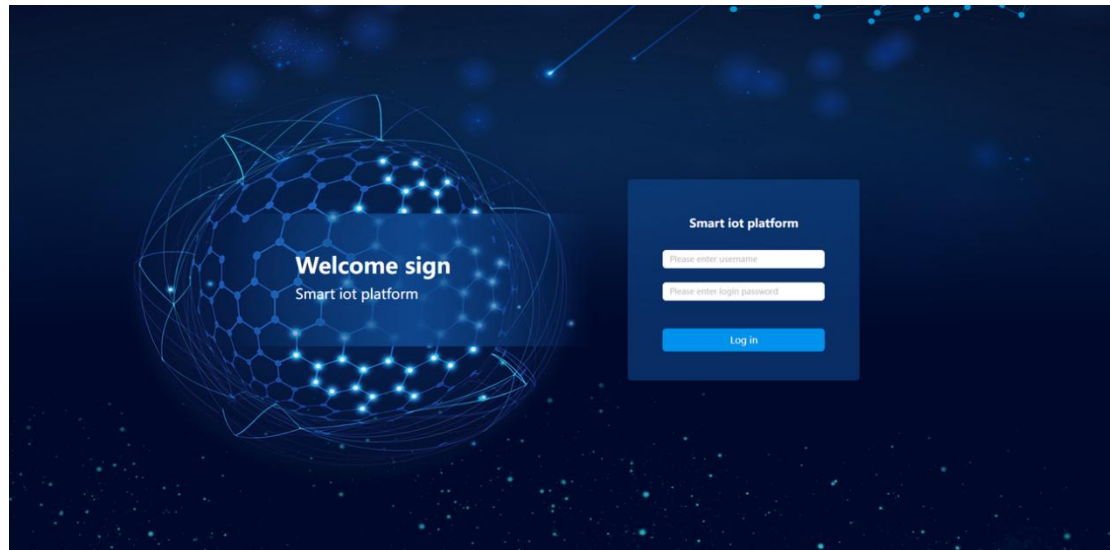
The process is the same as activating the email, requiring confirmation via the new email's verification code.

3.IOTHub Functions

3.1Login Page

3.1.1Function Overview

This interface serves as the login entry for the intelligent IOT platform, realizing user identity verification through a simple interface design to ensure the security of device operations and data management.



3.1.2Operation Process

Accessing the System

Display resolution $\geq 1920 \times 1080$, and access via a Google kernel browser (version ≥ 92):

Industrial intelligent computer IP address: 20021 (e.g., 192.168.111.174:20021)

Identity Verification

Step 1: Enter the employee number/registered account in the **Username** input field.

Step 2: Enter the corresponding password in the **Password** input field (password is hidden by default).

Step 3: Click the blue **Login** button to submit for verification.

3.2 Auxiliary Functions (General)

3.2.1 Pagination Control

Pagination Capacity

Switchable to display 10/20/30/40/50 pieces of information per page.

The screenshot shows the 'Sensor management' page in the IoT Hub. It features a table with columns: Sensor number, Product model number, Product subtype, Comm Status, Data status, Unit binding status, Binding organization, Bind group, Unit binding time, Feature interval, Waveform interval, Feature acquisition time, Waveform acquisition time, Add time, and Operations. The table lists several sensors, mostly of type 'SD-V3012-100'. At the bottom of the table, there is a pagination control showing 'A total of 41 Article' and a list of page numbers (1, 2, 3, 4, 5). A dropdown menu is open, showing options for '10 / page', '20 / page', '30 / page', '40 / page', and '50 / page'. The '10 / page' option is currently selected and highlighted with a red box.

Page Navigation

- Click the < > buttons to navigate between pages.

This screenshot is similar to the previous one, but with red arrows pointing to the navigation buttons in the pagination control. One arrow points to the left arrow button (<), and another points to the right arrow button (>). The pagination control also shows the page numbers and the '10 / page' dropdown menu.

- Click the target page number to jump directly.

Smart IoT platform

IoTHub / Sensor management

Sensor management

Enter the sensor num. Please select the ... Query Reset Advanced filtering

Sensor number	Product model number	Product subtype	Comm status	Data status	Unit binding status	Binding organization	End group	Unit binding time	Feature interval	Waveform interval	Feature acquisition time	Waveform acquisition time	Add time	Operations
SN1100003	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-01 15:00:36	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-02-10 11:45:55	Gateway unifying Delete
SN1100002	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-16 17:01:12	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2024-02-21 17:33:14	Gateway unifying Delete
SN1100007	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-16 17:00:02	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-04-29 10:01:11	Gateway unifying Delete
SN1100043	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-16 17:23:50	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:17:47	Gateway unifying Delete
SN1100019	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-16 16:50:19	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-29 10:01:27	Gateway unifying Delete
SN1100030	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/ESP	设备群组	2025-07-15 13:59:25	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-11 17:27:57	Gateway unifying Delete
SN1100025	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/ESP	设备群组	2025-07-07 14:36:34	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-06-03 11:37:04	Gateway unifying Delete
SN1100045	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/ESP	离心设备群组	2025-07-31 14:38:46	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:18:13	Gateway unifying Delete
SN1600001	SD-V7001	wired RPM sensor	Normal	Normal	Unbinding	-	-	-	-	-	2025-05-20 19:58:51	-	2025-04-29 11:28:26	Gateway unifying Delete
SN1100004	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-16 16:49:16	2Minutes	2Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-04-11 17:28:29	Gateway unifying Delete

A total of 41 Article 1 2 3 4 5 16 / page Go to

- Enter the page number in the input field and press Enter to jump.

Smart IoT platform

IoTHub / Sensor management

Sensor management

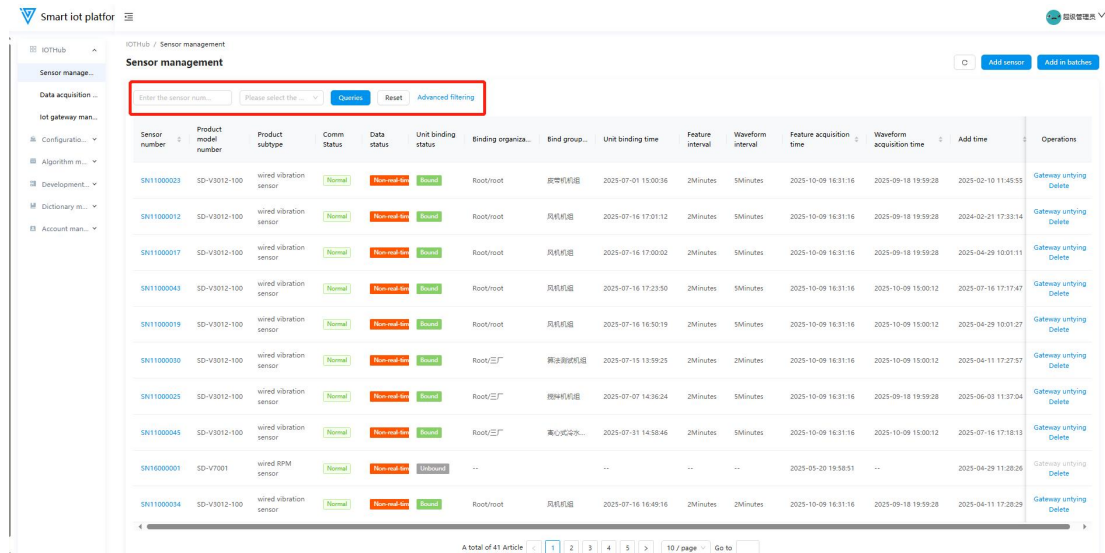
Enter the sensor num. Please select the ... Query Reset Advanced filtering

Sensor number	Product model number	Product subtype	Comm status	Data status	Unit binding status	Binding organization	End group	Unit binding time	Feature interval	Waveform interval	Feature acquisition time	Waveform acquisition time	Add time	Operations
SN1100003	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-01 15:00:36	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-02-10 11:45:55	Gateway unifying Delete
SN1100002	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-16 17:01:12	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2024-02-21 17:33:14	Gateway unifying Delete
SN1100007	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-16 17:00:02	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-04-29 10:01:11	Gateway unifying Delete
SN1100043	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-16 17:23:50	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:17:47	Gateway unifying Delete
SN1100019	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-16 16:50:19	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-29 10:01:27	Gateway unifying Delete
SN1100030	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/ESP	设备群组	2025-07-15 13:59:25	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-11 17:27:57	Gateway unifying Delete
SN1100025	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/ESP	设备群组	2025-07-07 14:36:34	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-06-03 11:37:04	Gateway unifying Delete
SN1100045	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/ESP	离心设备群组	2025-07-31 14:38:46	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:18:13	Gateway unifying Delete
SN1600001	SD-V7001	wired RPM sensor	Normal	Normal	Unbinding	-	-	-	-	-	2025-05-20 19:58:51	-	2025-04-29 11:28:26	Gateway unifying Delete
SN1100004	SD-V3012-100	wired vibration sensor	Normal	Normal	Normal	Root/root	设备群组	2025-07-16 16:49:16	2Minutes	2Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-04-11 17:28:29	Gateway unifying Delete

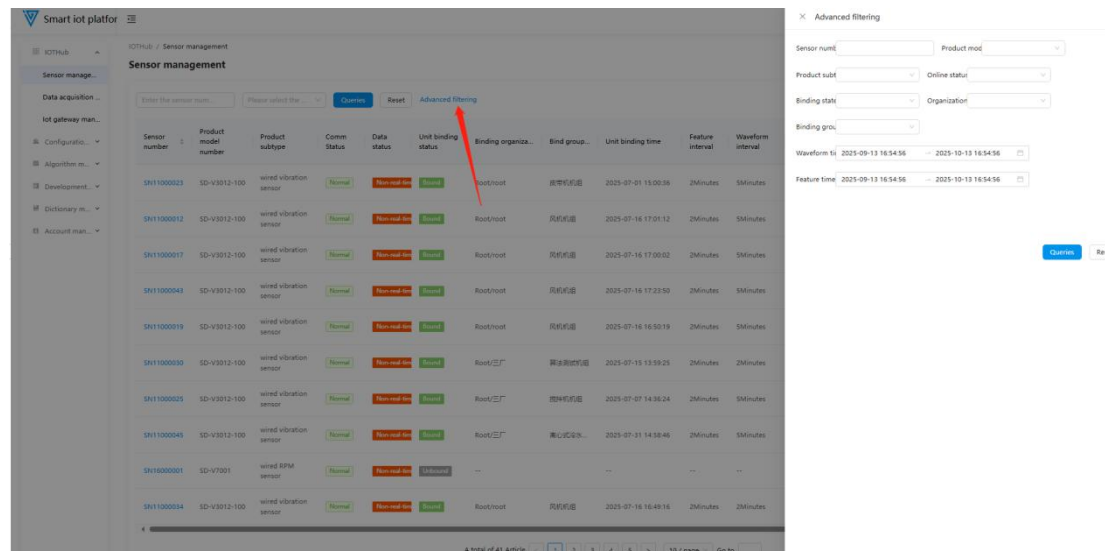
A total of 41 Article 1 2 3 4 5 16 / page Go to

3.2.2 Filter Query

Select or enter filter criteria as prompted, then click **Query**. Click **Reset** to clear all criteria.



- The Sensor Management page has an exclusive **Advanced Filter** button. Click to open the sidebar for more filtering conditions (other operations remain the same).



3.2.3 Data Sorting

Some data columns support sorting. Click the header to sort in ascending/descending order or cancel sorting.

Smart IoT platform

sensor management

Enter the sensor num... Please select the... [Queries](#) [Reset](#) [Advanced filtering](#)

Sensor number	Product model number	Product subtype	Comm Status	Data status	Unit binding status	Binding organiza...	End group...	Unit binding time	Feature interval	Waveform interval	Feature acquisition time	Waveform acquisition time	Add time	Operations
SN11000023	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	设备机头	2025-07-01 15:00:36	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-02-10 11:45:55	Gateway unifying Delete
SN11000012	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	风机机头	2025-07-16 17:01:12	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2024-02-21 17:33:14	Gateway unifying Delete
SN11000017	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	风机机头	2025-07-16 17:00:02	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-04-29 10:01:11	Gateway unifying Delete
SN11000043	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	风机机头	2025-07-16 17:23:50	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:17:47	Gateway unifying Delete
SN11000019	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	风机机头	2025-07-16 16:50:19	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-29 10:01:27	Gateway unifying Delete
SN11000030	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/三厂	测速测压机头	2025-07-15 13:59:25	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-11 17:27:57	Gateway unifying Delete
SN11000025	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/三厂	测速测压机头	2025-07-07 14:36:24	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-06-03 11:37:04	Gateway unifying Delete
SN11000045	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/三厂	离心式泵头...	2025-07-31 14:58:46	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:18:13	Gateway unifying Delete
SN16000001	SD-V7001	wired RPM sensor	Normal	Not read data	Unsuccess	--	--	--	--	--	2025-05-20 19:58:51	--	2025-04-29 11:28:26	Gateway unifying Delete
SN11000034	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	风机机头	2025-07-16 16:49:16	2Minutes	2Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-04-11 17:28:29	Gateway unifying Delete

A total of 41 Article 1 2 3 4 5 10 / page Go to

Adding Sensors

Click **Add Sensor** or **Batch Add** in the upper-right corner of the Sensor Management page. Fill in the number information according to the rules, select the product model, and click **OK** to add.

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sensor management

Enter the sensor num... Please select the... [Queries](#) [Reset](#) [Advanced filtering](#)

[Add sensor](#) [Add in batches](#)

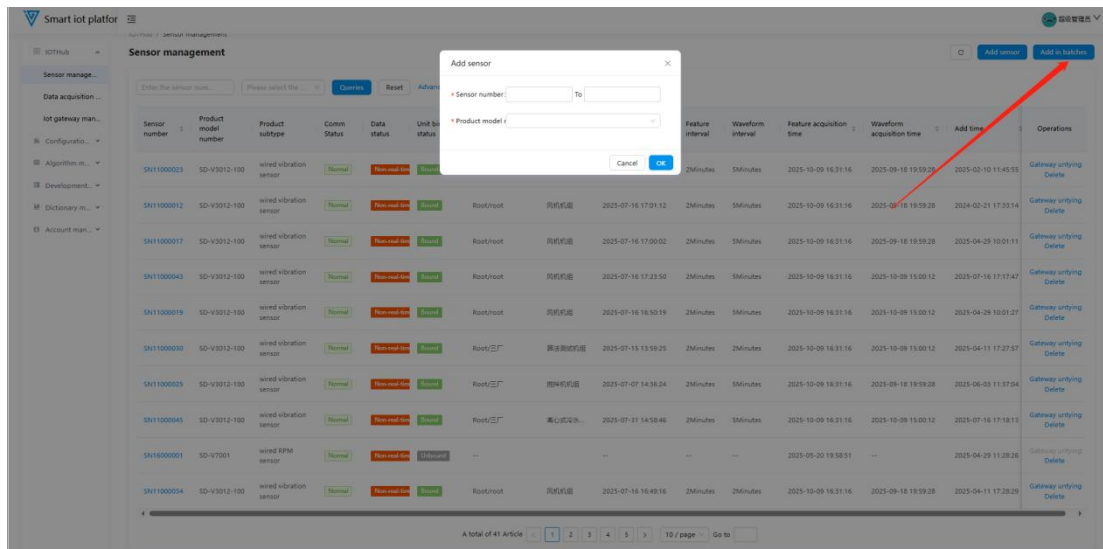
Cancel OK

+ Sensor number

+ Product model

Sensor number	Product model number	Product subtype	Comm Status	Data status	Unit binding status	Binding organiza...	End group...	Unit binding time	Feature interval	Waveform interval	Feature acquisition time	Waveform acquisition time	Add time	Operations
SN11000023	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	设备机头	2025-07-01 15:00:36	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-02-10 11:45:55	Gateway unifying Delete
SN11000012	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	风机机头	2025-07-16 17:01:12	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2024-02-21 17:33:14	Gateway unifying Delete
SN11000017	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	风机机头	2025-07-16 17:00:02	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-04-29 10:01:11	Gateway unifying Delete
SN11000043	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	风机机头	2025-07-16 17:23:50	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:17:47	Gateway unifying Delete
SN11000019	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	风机机头	2025-07-16 16:50:19	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-29 10:01:27	Gateway unifying Delete
SN11000030	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/三厂	测速测压机头	2025-07-15 13:59:25	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-11 17:27:57	Gateway unifying Delete
SN11000025	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/三厂	测速测压机头	2025-07-07 14:36:24	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-06-03 11:37:04	Gateway unifying Delete
SN11000045	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/三厂	离心式泵头...	2025-07-31 14:58:46	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:18:13	Gateway unifying Delete
SN16000001	SD-V7001	wired RPM sensor	Normal	Not read data	Unsuccess	--	--	--	--	--	2025-05-20 19:58:51	--	2025-04-29 11:28:26	Gateway unifying Delete
SN11000034	SD-V3012-100	wired vibration sensor	Normal	Not read data	Success	Root/root	风机机头	2025-07-16 16:49:16	2Minutes	2Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2025-04-11 17:28:29	Gateway unifying Delete

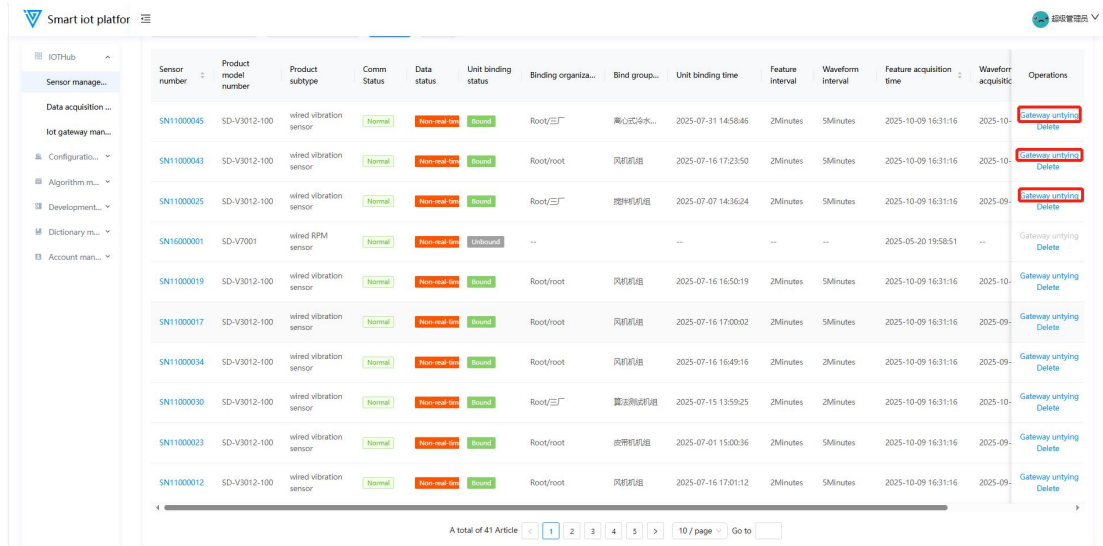
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- Sensor Numbering Rules:** Starts with **SN**, 10 digits total. The middle 2 digits indicate the monitoring type, and the last 6 digits are a unique serial number.
 | Product Model | Number Format | Product Type | Characteristics |
 | ----- | ----- | ----- | ----- |
 | SD-V3012-100 | SN11XXXXXX | Single-axis wired acceleration sensor | 100mg |
 | SD-V3012-500 | SN11XXXXXX | Single-axis wired acceleration sensor | 500mg |
 | SD-V3207-ZG | SN12XXXXXX | Three-axis wireless ZigBee sensor | 10k |
 | SD-V3207-4G | SN13XXXXXX | Three-axis wireless 4G-cat1 sensor | 10k, 4G-cat1 |

Sensor Gateway Unbinding

Unbind the gateway via the sensor list page or sensor details page before deleting a bound sensor.



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IoT Hub / Sensor management / Sensor details

SN11000045Details

Basic information

Sensor number	Product model number	Product subtype	Add time
SN11000045	SD-V3012-100	wired vibration sensor	2025-07-16 17:18:13
Feature acquisition interval	Waveform acquisition interval	Feature acquisition time	Waveform acquisition time
2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12

Binding information

Data acquisition gateway information

Bind the data acquisition gateway number	Binding time	Binding channel number	Channel type
GW200006	2025-07-16 17:19:49	6	

Unit information

Binding organization name	Bind group name	Bind group position number	Binding time
Root/三厂	离心式冷水机组	1	2025-07-31 14:58:46

Point information

Test point display name	Station position bit number	Measuring point axis	Sensor axis
温度306-℃	1	Z	

Unbind

Deleting Sensors

- Sensors not bound to a gateway can be deleted directly (the **Gateway Unbind** button is disabled).
- Bound sensors must be unbound from the gateway before deletion.

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IoT Hub / Sensor management

Sensor management

Enter the sensor num... Please select the ... Queryes Reset Advanced filtering

Sensor number	Product model number	Product subtype	Comm Status	Data status	Unit binding status	Binding organiza...	Bind group...	Unit binding time	Feature interval	Waveform interval	Feature acquisition time	Waveform acquisition time	Operations
SN11000045	SD-V3012-100	wired vibration sensor	Normal	Normal	Bound	Root/三厂	离心式冷水...	2025-07-31 14:58:46	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	Gateway unbinding Delete
SN11000043	SD-V3012-100	wired vibration sensor	Normal	Normal	Bound	Root/root	风机机组	2025-07-16 17:23:50	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	Gateway unbinding Delete
SN11000025	SD-V3012-100	wired vibration sensor	Normal	Normal	Bound	Root/三厂	离心式冷水...	2025-07-07 14:36:24	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	Gateway unbinding Delete
SN16000001	SD-V7001	wired RPM sensor	Normal	Normal	Unbound	---	---	---	---	---	2025-05-20 19:58:51	---	Delete
SN11000019	SD-V3012-100	wired vibration sensor	Normal	Normal	Bound	Root/root	风机机组	2025-07-16 16:50:19	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	Gateway unbinding Delete
SN11000017	SD-V3012-100	wired vibration sensor	Normal	Normal	Bound	Root/root	风机机组	2025-07-16 17:00:02	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	Gateway unbinding Delete
SN11000034	SD-V3012-100	wired vibration sensor	Normal	Normal	Bound	Root/root	风机机组	2025-07-16 16:49:16	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	Gateway unbinding Delete
SN11000030	SD-V3012-100	wired vibration sensor	Normal	Normal	Bound	Root/三厂	离心式冷水...	2025-07-15 13:59:25	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	Gateway unbinding Delete
SN11000023	SD-V3012-100	wired vibration sensor	Normal	Normal	Bound	Root/root	离心式冷水...	2025-07-01 15:00:36	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	Gateway unbinding Delete

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Sensor management

Enter the sensor num... Please select the ... Queries Reset

Are you sure you want to delete this sensor?

Cancel OK

Sensor number	Product model number	Product subtype	Comm Status	Data status	Unit binding status	Binding organiza...	Bind group...	Unit binding time	Feature interval	Waveform interval	Feature acquisition time	Waveform acquisitio...	Operations
SN11000045	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/工厂	离心式冷水...	2025-07-31 14:58:46	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-	Gateway unbinding Delete
SN11000043	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/root	风机机组	2025-07-16 17:23:50	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-	Gateway unbinding Delete
SN11000025	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/工厂	搅拌机机组	2025-07-07 14:36:24	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-	Gateway unbinding Delete
SN16000001	SD-V7001	wired RPM sensor	Normal	Non-real time	Unbound	--	--	--	--	--	2025-05-20 19:58:51	--	Gateway unbinding Delete
SN11000019	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/root	风机机组	2025-07-16 16:50:19	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-	Gateway unbinding Delete
SN11000017	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/root	风机机组	2025-07-16 17:00:02	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-	Gateway unbinding Delete
SN11000034	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/root	风机机组	2025-07-16 16:49:16	2Minutes	2Minutes	2025-10-09 16:31:16	2025-09-	Gateway unbinding Delete
SN11000030	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/工厂	离心式冷水...	2025-07-15 13:59:25	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-	Gateway unbinding Delete
SN11000023	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/root	皮带机机组	2025-07-01 15:00:36	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-	Gateway unbinding Delete

Sensor Details

Click **Details** in the sensor list to view transmission status, basic information, and binding details.

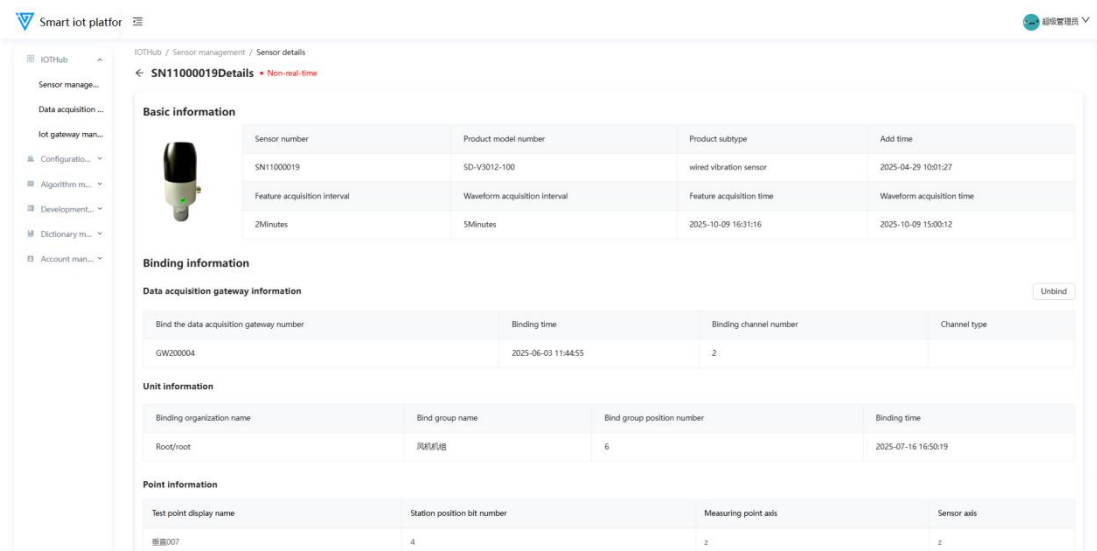
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Sensor management

Enter the sensor num... Please select the ... Queries Reset Advanced filtering

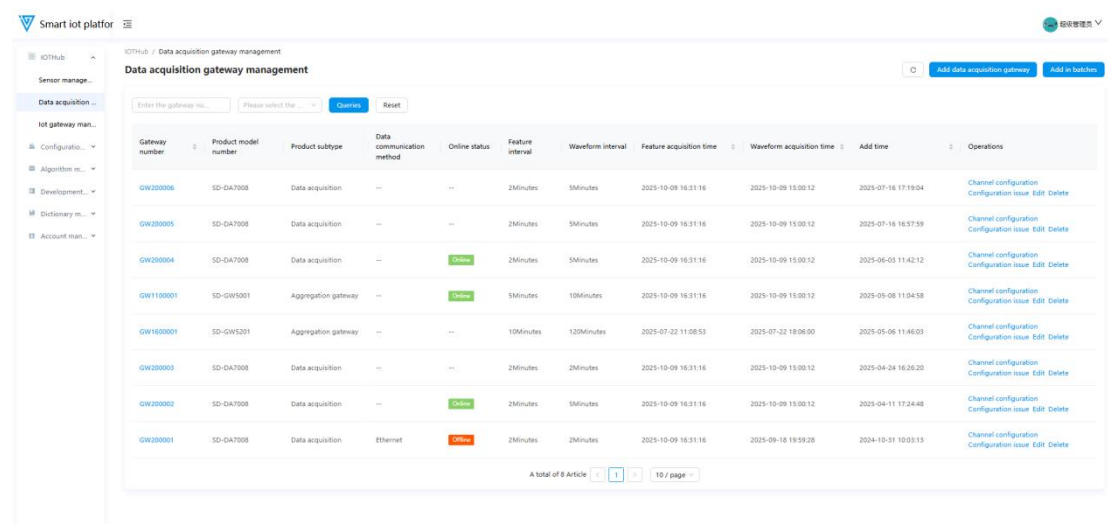
Sensor number	Product model number	Product subtype	Comm Status	Data status	Unit binding status	Binding organiza...	Bind group...	Unit binding time	Feature interval	Waveform interval	Feature acquisition time	Waveform acquisitio...	Operations
SN11000045	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/工厂	离心式冷水...	2025-07-31 14:58:46	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-	Gateway unbinding Delete
SN11000043	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/root	风机机组	2025-07-16 17:23:50	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-	Gateway unbinding Delete
SN11000025	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/工厂	搅拌机机组	2025-07-07 14:36:24	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-	Gateway unbinding Delete
SN16000001	SD-V7001	wired RPM sensor	Normal	Non-real time	Unbound	--	--	--	--	--	2025-05-20 19:58:51	--	Gateway unbinding Delete
SN11000019	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/root	风机机组	2025-07-16 16:50:19	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-	Gateway unbinding Delete
SN11000017	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/root	风机机组	2025-07-16 17:00:02	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-	Gateway unbinding Delete
SN11000034	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/root	风机机组	2025-07-16 16:49:16	2Minutes	2Minutes	2025-10-09 16:31:16	2025-09-	Gateway unbinding Delete
SN11000030	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/工厂	离心式冷水...	2025-07-15 13:59:25	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-	Gateway unbinding Delete
SN11000023	SD-V3012-100	wired vibration sensor	Normal	Non-real time	Bound	Root/root	皮带机机组	2025-07-01 15:00:36	2Minutes	5Minutes	2025-10-09 16:31:16	2025-09-	Gateway unbinding Delete



3.3.2 Data Acquisition Gateway Management

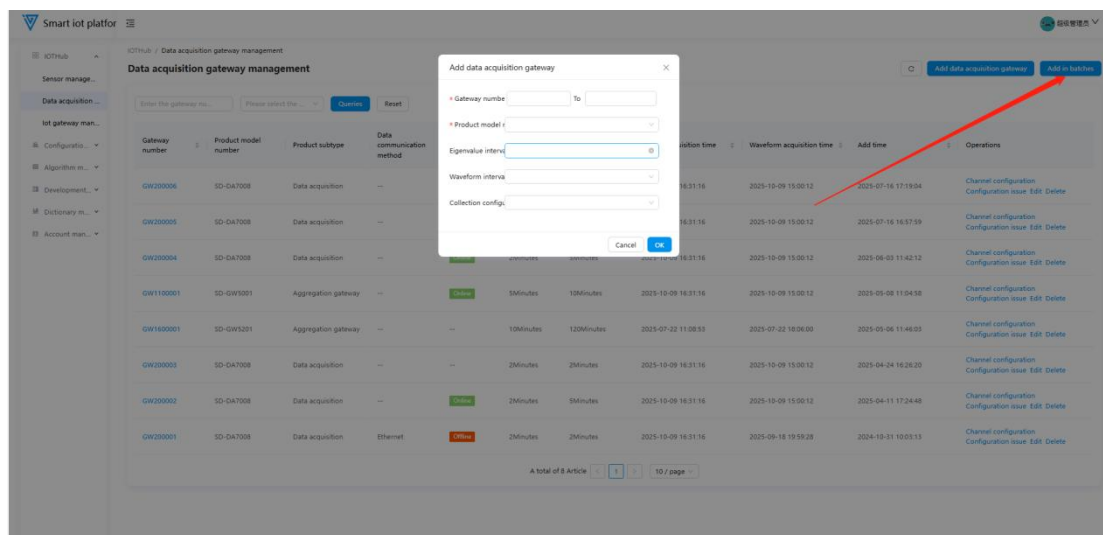
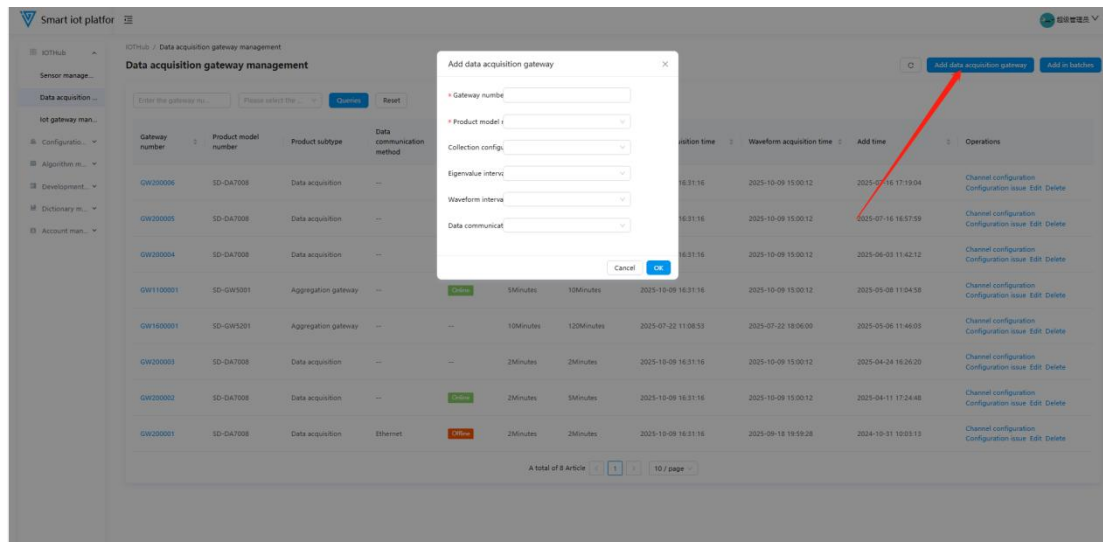
Function Overview

Operations personnel can use this function to add data collectors/gateways, bind sensors, deploy acquisition configurations, edit, and delete.



Adding Data Acquisition Gateways

Click **Add Data Acquisition Gateway** or **Batch Add** in the upper-right corner. Fill in **Gateway No.**, **Product Model**, **Acquisition Configuration**, **Eigenvalue Interval**, **Waveform Interval**, and **Data Communication Mode** (units for intervals are seconds by default; acquisition configurations must be added in **Dictionary Management > Acquisition Configuration**).



- **Gateway Numbering Rules:** Starts with **GW**, 8 digits total. The first two digits are fixed as **GW**, the middle digit indicates the gateway type, and the last 5 digits are unique.

| Product Model | Gateway Number Format | Product Type |

| ----- | ----- | ----- |

| SD-DA7008 | GW2XXXXX | 8-channel vibration collector |

| SD-DA7016 | GW2XXXXX | 16-channel vibration collector |

| SD-DA7024 | GW2XXXXX | 24-channel vibration collector |

| SD-GW5001/5101 | GW11XXXXX-GW15XXXXX | Vibration gateway |

| SD-GW5200/5201 | GW16XXXXX-GW19XXXXX | 4G virtual gateway |

Gateway Configuration and Deployment

1. Click **Channel Configuration** to bind sensors: enter the sensor number and click **OK**.
2. Click **Configuration Deployment** to push gateway and sensor information to the data acquisition platform (requires secondary confirmation).

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超智管理

IoT Hub

Sensor manage...

Data acquisition...

IoT gateway man...

Configuration...

Algorithm m...

Development...

Dictionary m...

Account man...

IoT Hub / Data acquisition gateway management

Data acquisition gateway management

Enter the gateway no... Please select the ... Query Reset

Gateway number	Product model number	Product subtype	Data communication method	Online status	Feature Interval	Waveform Interval	Feature acquisition time	Waveform acquisition time	Add time	Operations
GW200006	SD-DA7008	Data acquisition	--	--	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:19:04	Channel configuration Configuration issue Edit Delete
GW200005	SD-DA7008	Data acquisition	--	--	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 16:57:59	Channel configuration Configuration issue Edit Delete
GW200004	SD-DA7008	Data acquisition	--	Online	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-06-03 11:42:12	Channel configuration Configuration issue Edit Delete
GW1100001	SD-GW5001	Aggregation gateway	--	Online	5Minutes	10Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-05-08 11:04:58	Channel configuration Configuration issue Edit Delete
GW1600001	SD-GW5201	Aggregation gateway	--	--	10Minutes	120Minutes	2025-07-22 11:08:53	2025-07-22 18:06:00	2025-05-06 11:46:03	Channel configuration Configuration issue Edit Delete
GW200003	SD-DA7008	Data acquisition	--	--	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-24 16:26:20	Channel configuration Configuration issue Edit Delete
GW200002	SD-DA7008	Data acquisition	--	Online	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-11 17:24:48	Channel configuration Configuration issue Edit Delete
GW200001	SD-DA7008	Data acquisition	Ethernet	Offline	2Minutes	2Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2024-10-31 10:03:13	Channel configuration Configuration issue Edit Delete

A total of 8 Article < 1 10 / page

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超智管理

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Sensor manage...

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Account man...

IoT Hub / Data acquisition gateway management

Data acquisition gateway management

Enter the gateway no... Please select the ... Query Reset

Gateway number	Product model number	Product subtype	Data communication method	Online status	Feature Interval	Waveform Interval	Feature acquisition time	Waveform acquisition time	Add time	Operations
GW200006	SD-DA7008	Data acquisition	--	--	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:19:04	Channel configuration Configuration issue Edit Delete
GW200005	SD-DA7008	Data acquisition	--	--	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 16:57:59	Channel configuration Configuration issue Edit Delete
GW200004	SD-DA7008	Data acquisition	--	Online	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-06-03 11:42:12	Channel configuration Configuration issue Edit Delete
GW1100001	SD-GW5001	Aggregation gateway	--	Online	5Minutes	10Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-05-08 11:04:58	Channel configuration Configuration issue Edit Delete
GW1600001	SD-GW5201	Aggregation gateway	--	--	10Minutes	120Minutes	2025-07-22 11:08:53	2025-07-22 18:06:00	2025-05-06 11:46:03	Channel configuration Configuration issue Edit Delete
GW200003	SD-DA7008	Data acquisition	--	--	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-24 16:26:20	Channel configuration Configuration issue Edit Delete
GW200002	SD-DA7008	Data acquisition	--	Online	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-11 17:24:48	Channel configuration Configuration issue Edit Delete
GW200001	SD-DA7008	Data acquisition	Ethernet	Offline	2Minutes	2Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2024-10-31 10:03:13	Channel configuration Configuration issue Edit Delete

A total of 8 Article < 1 10 / page

Sensor configuration

Data acquisition gateway number: GW200004 Product model number: SD-DA7008

Vibration sensor

Channel name

Sensor number

1 SN11000001

2 SN11000019

3 SN11000037

4 SN11000036

5 SN11000050

Channel name

Sensor number

No Data

Cancel OK

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超智管理

IoT Hub

Sensor manage...

Data acquisition...

IoT gateway man...

Configuration...

Algorithm m...

Development...

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IoT Hub / Data acquisition gateway management

Data acquisition gateway management

Enter the gateway no... Please select the ... Query Reset

Tips

Are you sure you want to issue this configuration?

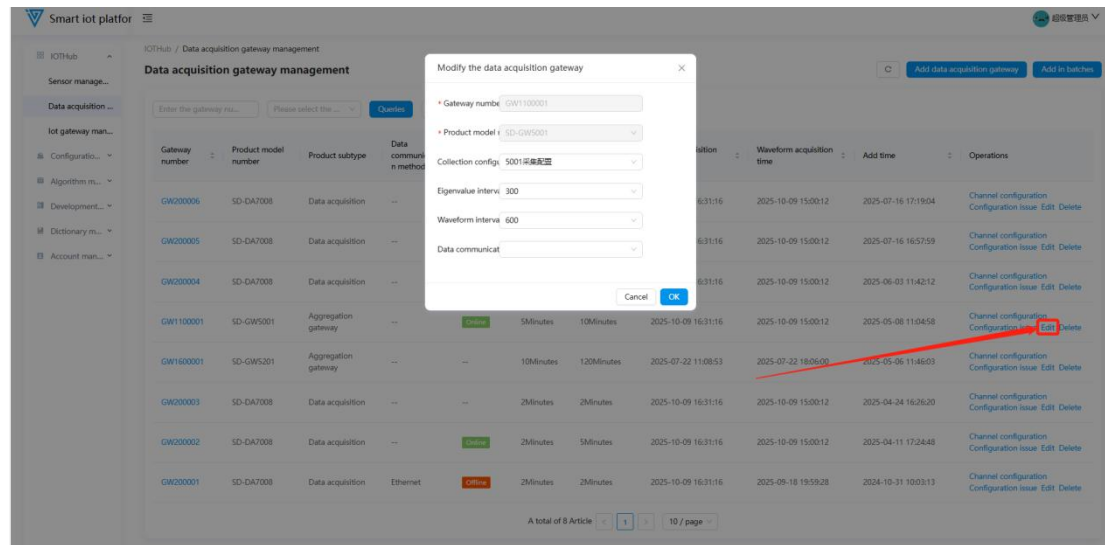
Cancel OK

Gateway number	Product model number	Product subtype	Data communication method	Online status	Feature Interval	Waveform Interval	Feature acquisition time	Waveform acquisition time	Add time	Operations
GW200006	SD-DA7008	Data acquisition	--	--	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 17:19:04	Channel configuration Configuration issue Edit Delete
GW200005	SD-DA7008	Data acquisition	--	--	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-07-16 16:57:59	Channel configuration Configuration issue Edit Delete
GW200004	SD-DA7008	Data acquisition	--	Online	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-06-03 11:42:12	Channel configuration Configuration issue Edit Delete
GW1100001	SD-GW5001	Aggregation gateway	--	Online	5Minutes	10Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-05-08 11:04:58	Channel configuration Configuration issue Edit Delete
GW1600001	SD-GW5201	Aggregation gateway	--	--	10Minutes	120Minutes	2025-07-22 11:08:53	2025-07-22 18:06:00	2025-05-06 11:46:03	Channel configuration Configuration issue Edit Delete
GW200003	SD-DA7008	Data acquisition	--	--	2Minutes	2Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-24 16:26:20	Channel configuration Configuration issue Edit Delete
GW200002	SD-DA7008	Data acquisition	--	Online	2Minutes	5Minutes	2025-10-09 16:31:16	2025-10-09 15:00:12	2025-04-11 17:24:48	Channel configuration Configuration issue Edit Delete
GW200001	SD-DA7008	Data acquisition	Ethernet	Offline	2Minutes	2Minutes	2025-10-09 16:31:16	2025-09-18 19:59:28	2024-10-31 10:03:13	Channel configuration Configuration issue Edit Delete

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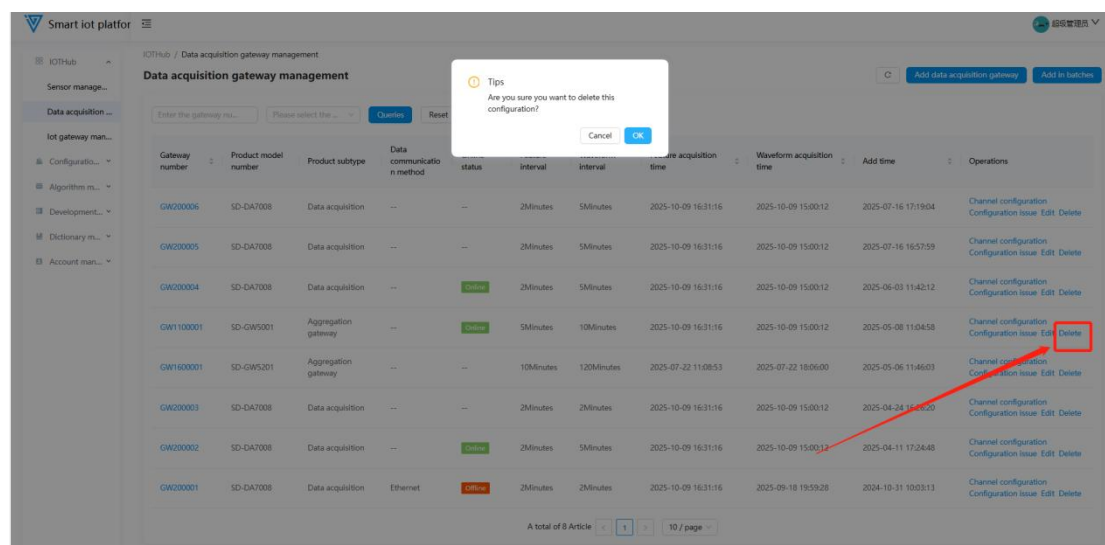
Editing Gateways

Click **Edit** to modify gateway information (**Gateway No.** and **Product Model** cannot be edited).



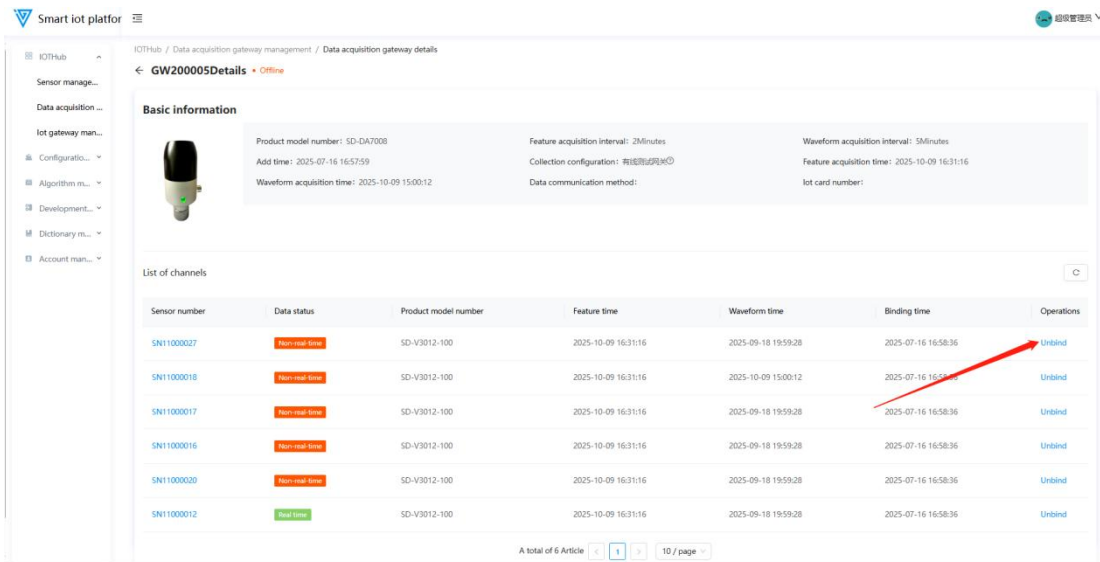
Deleting Gateways

- Unbind all sensors before deleting a gateway (deletion is disabled for bound gateways).
- Delete directly if no sensors are bound.

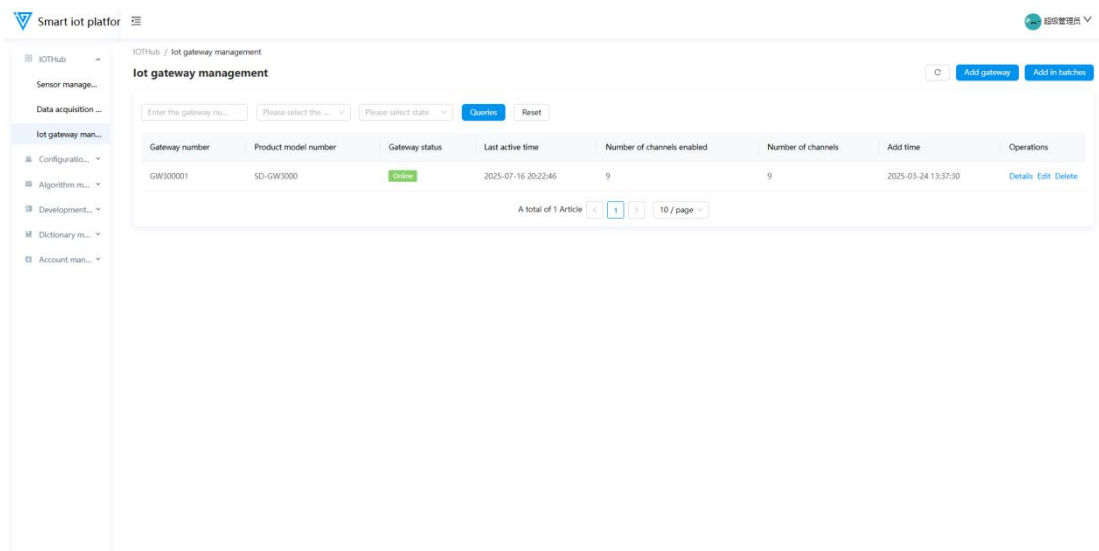


Gateway Details

Click the gateway number in the list to view basic information and bound sensors (unbind sensors on the details page).

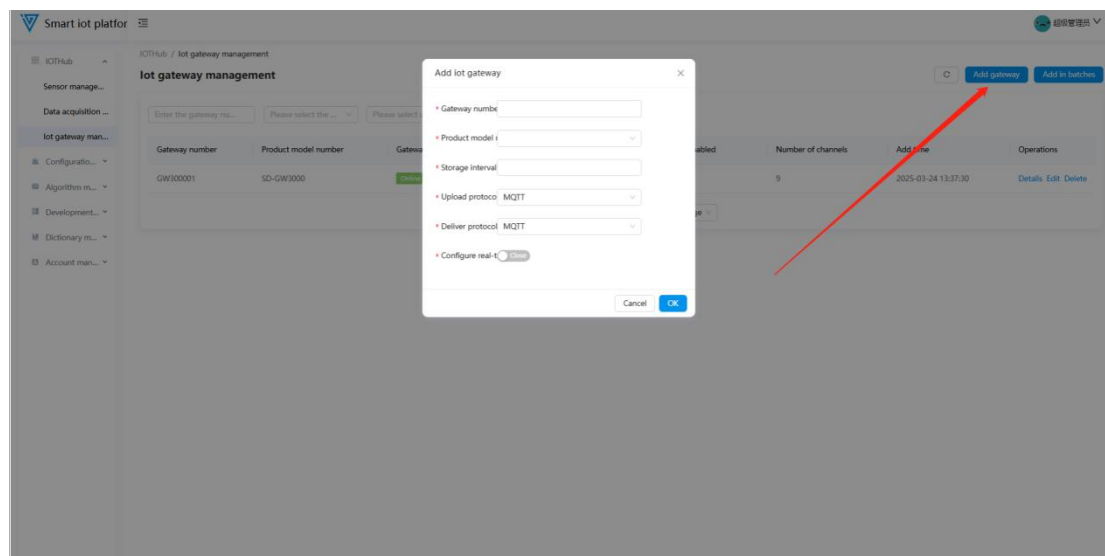


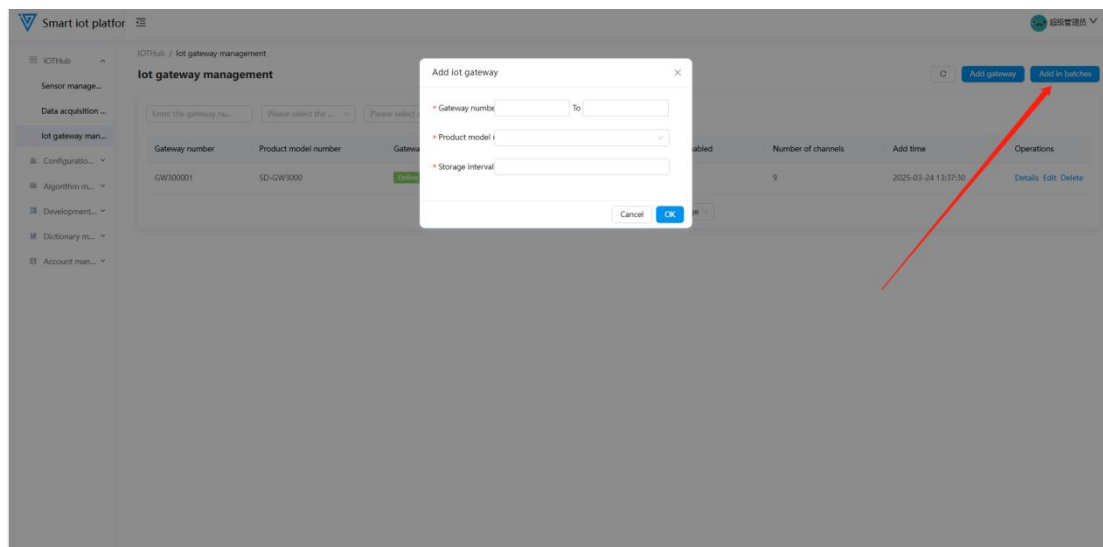
Operations personnel can use this function to add, edit, configure points, and delete IOT gateways.



Adding IOT Gateways

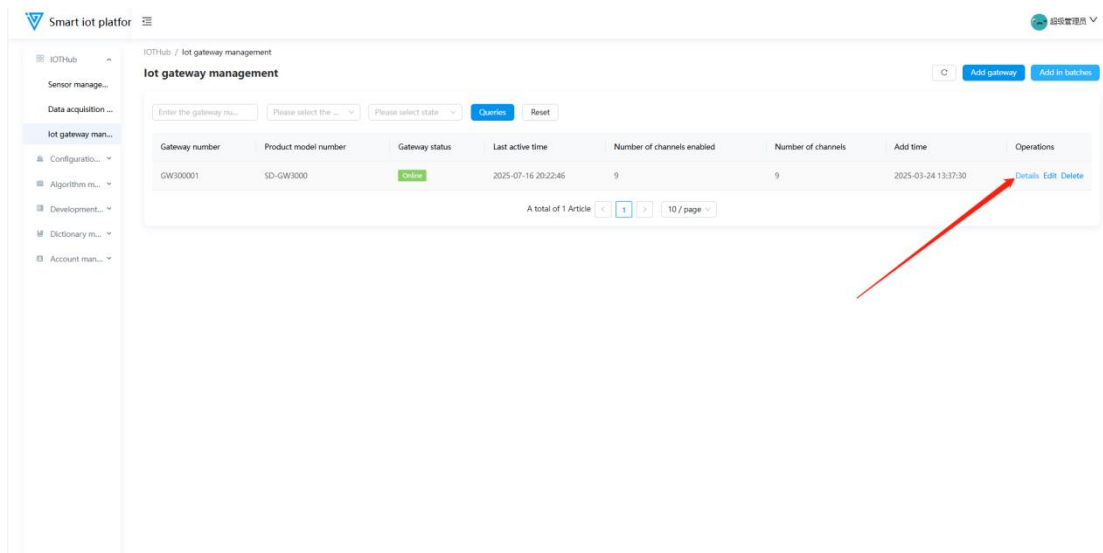
- Current supported product model: **SD-GW3000**.
- Supported protocols: **RMQ, MQTT, OPCUA, API, Page Integration**.
- The **Configuration Real-time Forwarding** switch (disabled by default) determines whether process data is forwarded to the configuration platform.





IOT Gateway Details

Click **Details** to view basic information and real-time process point dashboards (configure/enable/disable/delete points on this page).



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IoTHub / Iot gateway management / Gateway Details

Gateway Details

Add pointBulk import

Basic information

Gateway number: GW000001

Product model number: SD-GW0000

Storage interval: 12 min

Add time: 2025-03-24 13:37:30

Product type: Data acquisition

Real-time dashboard

Channel namePoint typePoint number

Channel namePoint numberPoint typePoint descriptionMonitoring unitOrganizationReal-time valuesStorage timeAdd timeOperations

C1	voltage	---	voltage	---	---	368 null	2025-07-16 20:22:46	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	current	Reading and Writing	current	电流的强度	root	31 A	2025-07-16 20:22:46	2025-04-21 16:23:24	ConfigurationDeactivateDelete
C1	speed	Reading and Writing	speed	风机的速度	root	700 rpm	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	temperature	Reading and Writing	temperature	风机的温度	root	82 °C	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	fluid_flow	Reading and Writing	fluid_flow	风机的流量	root	53 m³/s	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	Switch	Reading and Writing	Switch	风机的开关	root	0	2025-04-29 14:33:38	2025-04-29 10:16:47	ConfigurationDeactivateDelete
C1	frequency	---	frequency	---	---	0 null	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	concentration	---	concentration	---	---	6094 null	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	pressure	Reading and Writing	pressure	风机的压力	root	1389 V	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete

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IoTHub / Iot gateway management / Gateway Details

Gateway Details

Add pointBulk import

Basic information

Gateway number: GW000001

Product model number: SD-GW0000

Storage interval: 12 min

Add time: 2025-03-24 13:37:30

Product type: Data acquisition

Real-time dashboard

Channel namePoint typePoint number

Channel namePoint numberPoint typePoint descriptionMonitoring unitOrganizationReal-time valuesStorage timeAdd timeOperations

C1	voltage	---	voltage	---	---	368 null	2025-07-16 20:22:46	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	current	Reading and Writing	current	电流的强度	root	31 A	2025-07-16 20:22:46	2025-04-21 16:23:24	ConfigurationDeactivateDelete
C1	speed	Reading and Writing	speed	风机的速度	root	700 rpm	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	temperature	Reading and Writing	temperature	风机的温度	root	82 °C	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	fluid_flow	Reading and Writing	fluid_flow	风机的流量	root	53 m³/s	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	Switch	Reading and Writing	Switch	风机的开关	root	0	2025-04-29 14:33:38	2025-04-29 10:16:47	ConfigurationDeactivateDelete
C1	frequency	---	frequency	---	---	0 null	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	concentration	---	concentration	---	---	6094 null	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	pressure	Reading and Writing	pressure	风机的压力	root	1389 V	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete

A total of 9 Article110 / page

Channel configuration

Channel name: C1

Point number: voltage

Point description: voltage

Point type:

Department:

Collection type:

Numerical units:

Channel valueDisplay valueOperations

No Data

Adding channels

CancelOK

Smart iot platfor

IoTHub / Iot gateway management / Gateway Details

Gateway Details

Add pointBulk import

Basic information

Gateway number: GW000001

Product model number: SD-GW0000

Storage interval: 12 min

Add time: 2025-03-24 13:37:30

Product type: Data acquisition

Real-time dashboard

Channel namePoint typePoint number

Channel namePoint numberPoint typePoint descriptionMonitoring unitOrganizationReal-time valuesStorage timeAdd timeOperations

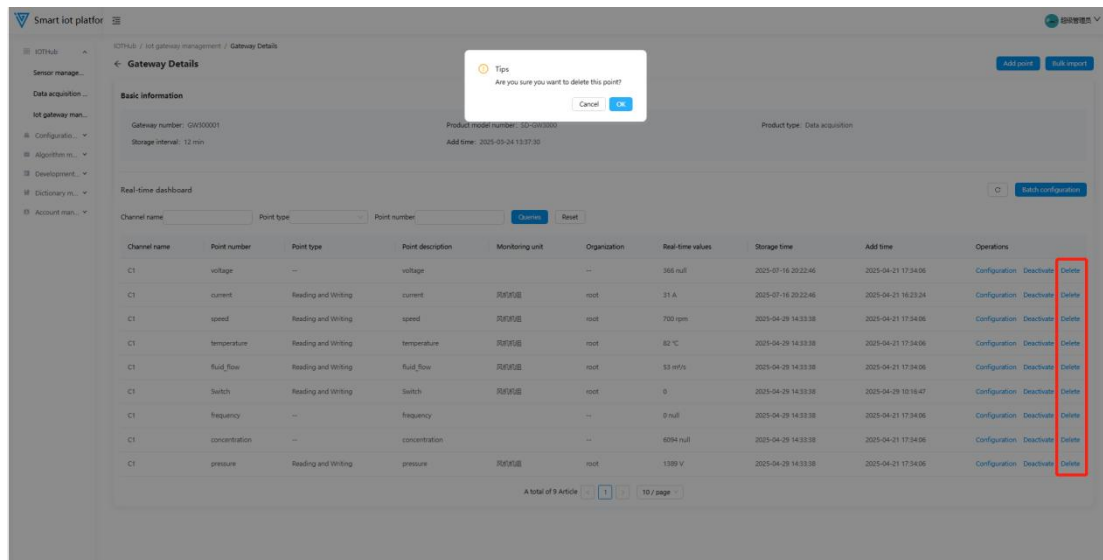
C1	voltage	---	voltage	---	---	368 null	2025-07-16 20:22:46	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	current	Reading and Writing	current	电流的强度	root	31 A	2025-07-16 20:22:46	2025-04-21 16:23:24	ConfigurationDeactivateDelete
C1	speed	Reading and Writing	speed	风机的速度	root	700 rpm	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	temperature	Reading and Writing	temperature	风机的温度	root	82 °C	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	fluid_flow	Reading and Writing	fluid_flow	风机的流量	root	53 m³/s	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	Switch	Reading and Writing	Switch	风机的开关	root	0	2025-04-29 14:33:38	2025-04-29 10:16:47	ConfigurationDeactivateDelete
C1	frequency	---	frequency	---	---	0 null	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	concentration	---	concentration	---	---	6094 null	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete
C1	pressure	Reading and Writing	pressure	风机的压力	root	1389 V	2025-04-29 14:33:38	2025-04-21 17:34:06	ConfigurationDeactivateDelete

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Tip

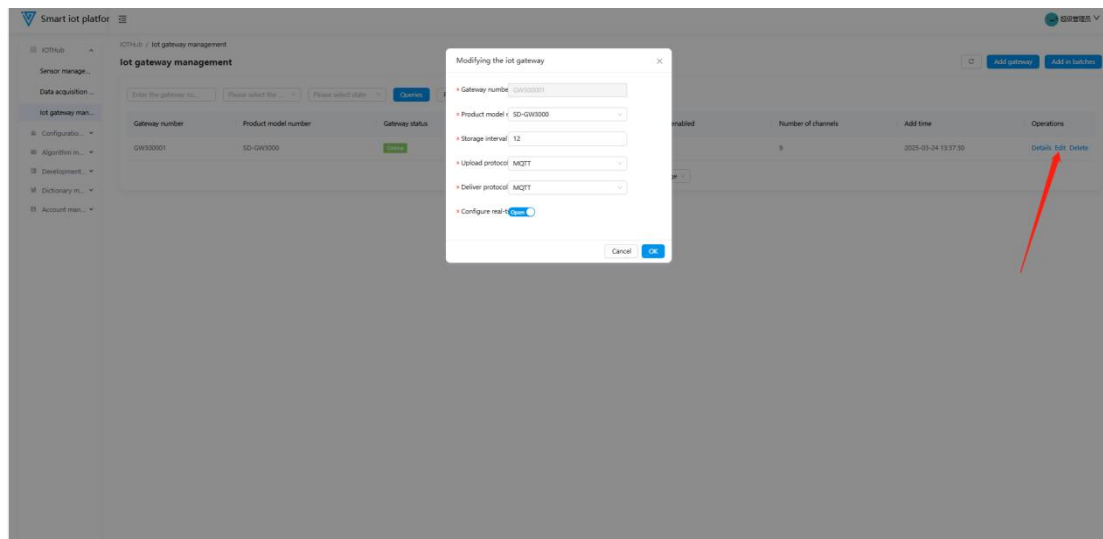
Are you sure you want to deactivate this channel?

CancelOK



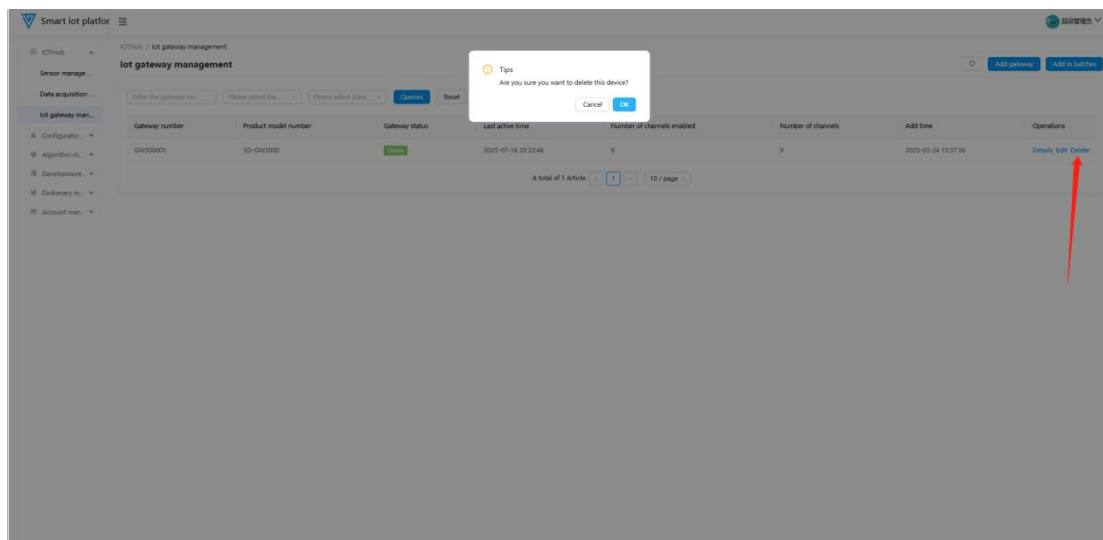
Editing IOT Gateways

Click **Edit** in the operation column to modify gateway information.



Deleting IOT Gateways

Unbind all points before deleting. Click **Delete** in the list (requires secondary confirmation).

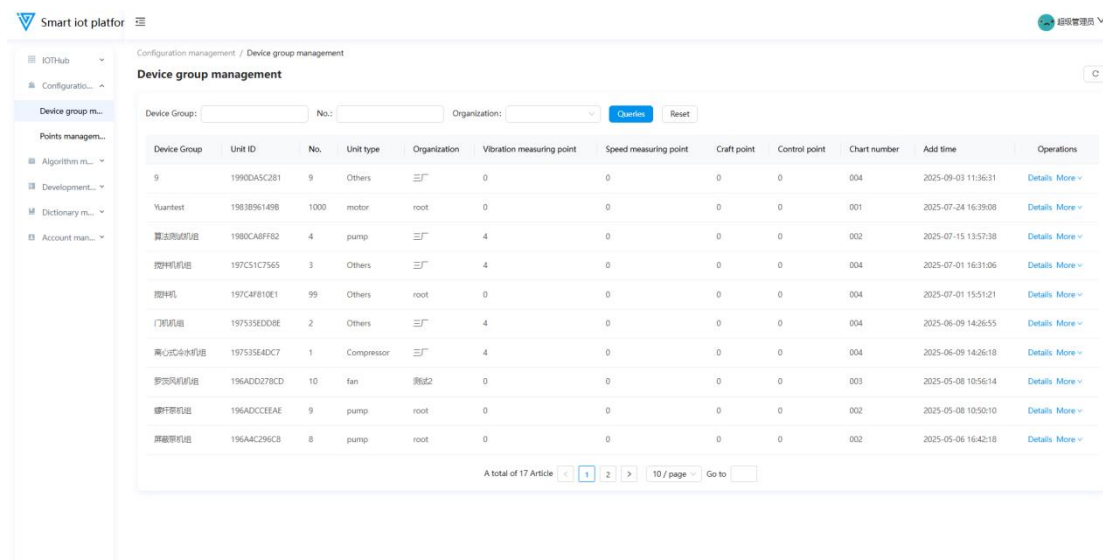


3.4 Configuration Management

3.4.1 Unit Management

Function Overview

Add/edit/delete units, add measuring points, and view unit details.



Adding Wireless Vibration Measuring Points

Click **More** → **Add Wireless Vibration Measuring Point** behind the unit, and fill in information in the pop-up window.

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IoTHub

Configuration...

Device group m...

Points managem...

Algorithn m...

Development...

Dictionary m...

Account man...

Configuration management / Device group management

Device group management

Device Group:

No.:

Organization:

Queries

Reset

Device Group	Unit ID	No.	Unit type	Organization	Vibration measuring point	Speed measuring point	Craft point	Control point	Chart number	Add time	Operations
9	1990DASC281	9	Others	三厂	0	0	0	0	004	2025-09-03 11:36:31	Details More
Yuantest	1983B96149B	1000	motor	root	0	0	0	0	001	2025-07-24 16:39:08	Details More
算法测试机组	1980CABFF62	4	pump	三厂	4	0	0	0	001	2025-07-15 13:57:38	Details More
搅拌机机组	197C31C7565	3	Others	三厂	4	0	0	0	004	2025-07-01 16:31:06	Details More
搅拌机	197C4F810E1	99	Others	root	0	0	0	0	004	2025-07-01 15:51:21	Details More
门机机组	197535EDD0E	2	Others	三厂	4	0	0	0	004	2025-06-09 14:26:55	Details More
离心式冷水机组	197535E4DC7	1	Compressor	三厂	4	0	0	0	004	2025-06-09 14:26:18	Details More
罗茨风机机组	196ADD78CD	10	fan	测试2	0	0	0	0	003	2025-05-08 10:56:14	Details More
螺杆压缩机	196ADCCCEAE	9	pump	root	0	0	0	0	002	2025-05-08 10:50:10	Details More
屏蔽泵机组	196A4C296C8	8	pump	root	0	0	0	0	002	2025-05-06 16:42:18	Details More

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Go to

Wireless vibration measuring point added

Sensor information

Sensor number:

Sensor axis:

Point information

Point location num:

Point names:

Test point display:

Collection type:

Measuring point a:

Device information

Belonging device:

Bearing model:

Threshold setting

Acceleration

Feature type:

Rms values

Peak value

10-stop thresho

1.0

Customer alarm thre

30.0

High alarm threshi

50.0

Low alarm threshi

40.0

Horizontal attentio

25.0

Vibration fluctuati

20.0

Alarm rules:

Output alarm

Velocity

Feature type:

Rms values

Peak value

10-stop thresho

0.6

Customer alarm thre

4.5

High alarm threshi

7.1

Low alarm thresho

4.5

Horizontal attentio

3.7

Vibration fluctuati

2.3

Alarm rules:

Output alarm

Displacement

Feature type:

Rms

Peak

10-stop thresho

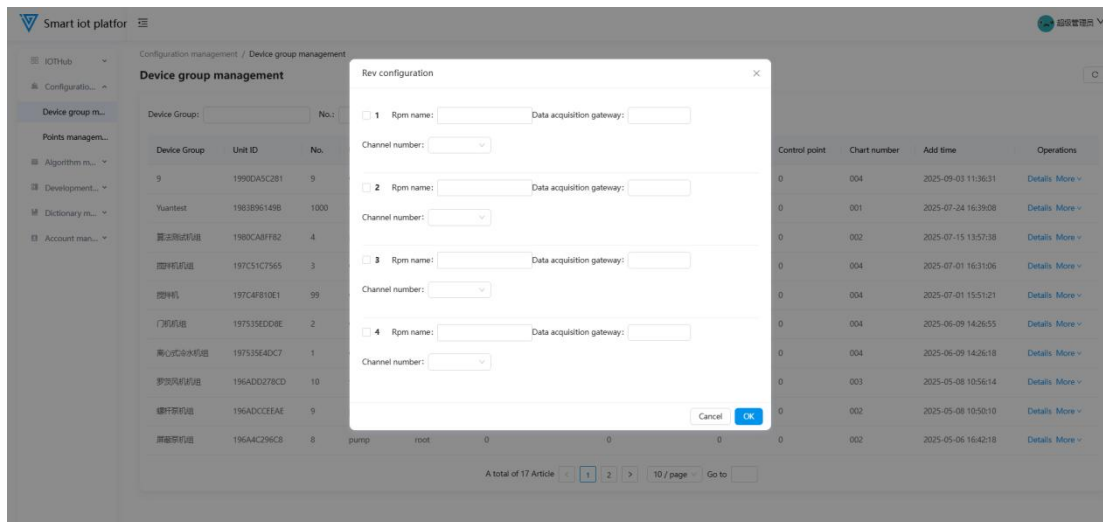
8.0

Customer alarm thre

57.0

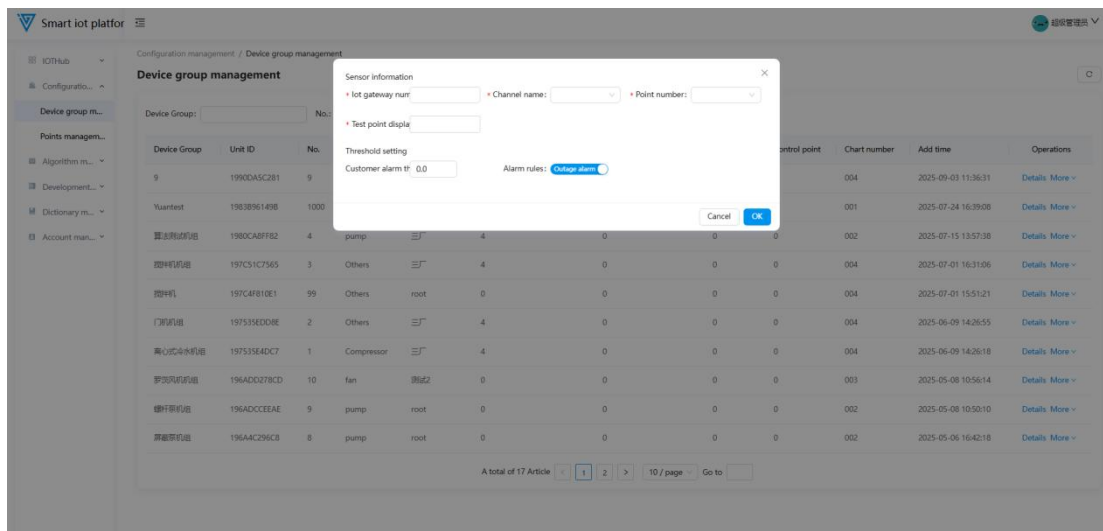
Speed Configuration

Click **More** → **Speed Configuration** behind the unit, and fill in information in the pop-up window.



Process Measuring Point Configuration

Click **More** → **Process Measuring Point Configuration** behind the unit, and fill in information in the pop-up window.



Adding Wired Vibration Monitoring Points

Click the **More** button behind the unit and select "Add Wired Vibration Monitoring Point". Fill in the information in the pop-up window to add it.

Wired vibration measuring points added

Sensor information

* Data acquisition di: * Channel number: * Temperature mon: ☒

Point information

* Point location num: * Point name: * Test point display:

* Collection type: * Measuring point a:

Device information

* Belonging device: * Bearing model:

Threshold setting

Acceleration

Feature type: ☒ Rms values ☐ Peak value ☐ Peak-to-peak value

* High alarm thresho: * Low alarm thresho: * Horizontal attentio:

* Vibration fluctuat: * Alarm rules: ☒ Outage alarm ☐ Normal alarm

Velocity

Feature type: ☒ Rms values ☐ Peak value ☐ Peak-to-peak value

* High alarm thresho: * Low alarm thresho: * Horizontal attentio:

* Vibration fluctuat: * Alarm rules: ☒ Outage alarm ☐ Normal alarm

Displacement

Feature type: ☒ Rms values ☐ Peak value ☐ Peak-to-peak value

* High alarm thresho: * Low alarm thresho: * Horizontal attentio:

* Vibration fluctuat: * Alarm rules: ☒ Outage alarm ☐ Normal alarm

Adding Control Monitoring Points

Click the More button behind the unit and select "Add Control Monitoring Point". Fill in the information in the pop-up window to add it.

Control measuring points added

* IoT gateway number:

* Channel name:

* Point number:

* Control name:

Minimum:

Maximum:

On/start value:

Off/stop value:

Device Group	Unit ID	No.	Unit type	Chart point	Control point	Chart number	Add time	Operations
9	1950DASC281	9	Others	0	0	004	2025-09-03 11:36:31	Details More
Yuantest	1963B961496	1000	motor	0	0	001	2025-07-24 16:39:08	Details More
算法测试机组	1980CAFF82	4	pump	0	0	002	2025-07-15 13:57:38	Details More
增压风机机组	197C31C7365	3	Others	0	0	004	2025-07-01 16:31:06	Details More
增压机	197CAF810E1	99	Others	0	0	004	2025-07-01 15:51:21	Details More
门机机组	197535ED08E	2	Others	0	0	004	2025-06-09 14:26:55	Details More
离心式冷水机组	197535E4DC7	1	Compressor	0	0	004	2025-06-09 14:26:18	Details More
罗茨风机机组	196ADD278CD	10	fan	0	0	003	2025-05-08 10:56:14	Details More
螺杆泵机组	196ADCCCEAE	9	pump	0	0	002	2025-05-08 10:50:10	Details More
屏蔽泵机组	196AAC296C3	8	pump	0	0	002	2025-05-06 16:42:18	Details More

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Unit Details

Click **Details** behind the unit to enter the details page (configure measuring points, trigger algorithm learning, view parameters, etc.).

Smart iot platfor 高级管理

Configuration management / Device group management

Device group management

Device Group: No.: Organization: [Clean](#) [Reset](#)

Device Group	Unit ID	No.	Unit type	Organization	Vibration measuring point	Speed measuring point	Craft point	Control point	Chart number	Add time	Operations
9	1990DA5C281	9	Others	三厂	0	0	0	0	004	2025-09-03 11:36:31	Details More >
Yuantest	1983B96149B	1000	motor	root	0	0	0	0	001	2025-07-24 16:39:08	Details More >
黄泥测试机组	1980CABFF82	4	pump	三厂	4	0	0	0	002	2025-07-15 13:57:38	Details More >
搅拌机机组	197C51C7565	3	Others	三厂	4	0	0	0	004	2025-07-01 16:31:06	Details More >
搅拌机	197C4F810E1	99	Others	root	0	0	0	0	004	2025-07-01 15:51:21	Details More >
门机机组	197535EDD0E	2	Others	三厂	4	0	0	0	004	2025-06-09 11:25:55	Details More >
离心式冷水机组	197535E4DC7	1	Compressor	三厂	4	0	0	0	004	2025-06-09 14:26:18	Details More >
罗茨风机机组	196ADC078CD	10	fan	测试2	0	0	0	0	003	2025-05-08 10:56:14	Details More >
螺杆压缩机	196ADCCEAE	9	pump	root	0	0	0	0	002	2025-05-08 10:50:10	Details More >
屏蔽泵机组	196A4C296C8	8	pump	root	0	0	0	0	002	2025-05-06 16:42:18	Details More >

A total of 17 Article [1](#) [2](#) [10 / page](#) [Go to](#)

- Click **Configure Measuring Points** in the upper-right to add wireless vibration/wired vibration/process/control points.

Smart iot platfor 高级管理

Configuration management / Device group management / Details of Unit Management

Device group details

[Set up point](#)

Wireless vibration measuring point added
 Rev configuration
 Wired vibration measuring points added
 Control measuring points added

Basic information

No.: 3	Device Group: 搅拌机机组	Organization: 三厂
Unit ID: 197C51C7565	Unit type: Others	Unit drawing number: 004

Device information

111

Device Type: Vibrating screen	Asset number:	Device location number: 1
Installation Date:	Equipment parameters: View	

222

Device Type: AC frequency-controlled motor	Asset number:	Device location number: 2
Installation Date:	Equipment parameters: View	

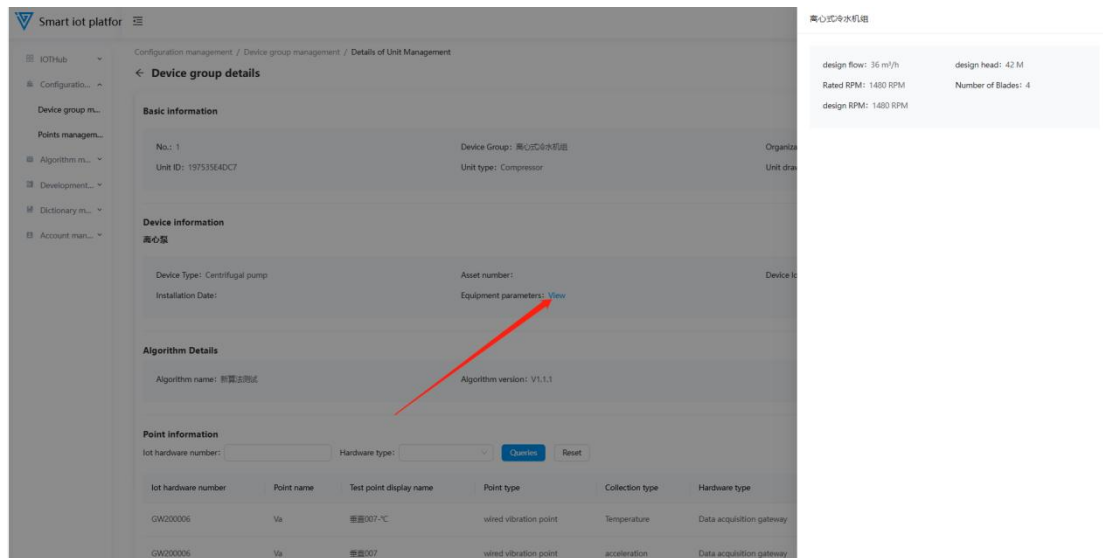
333

Device Type: parallel gears	Asset number:	Device location number: 3
Installation Date:	Equipment parameters: View	

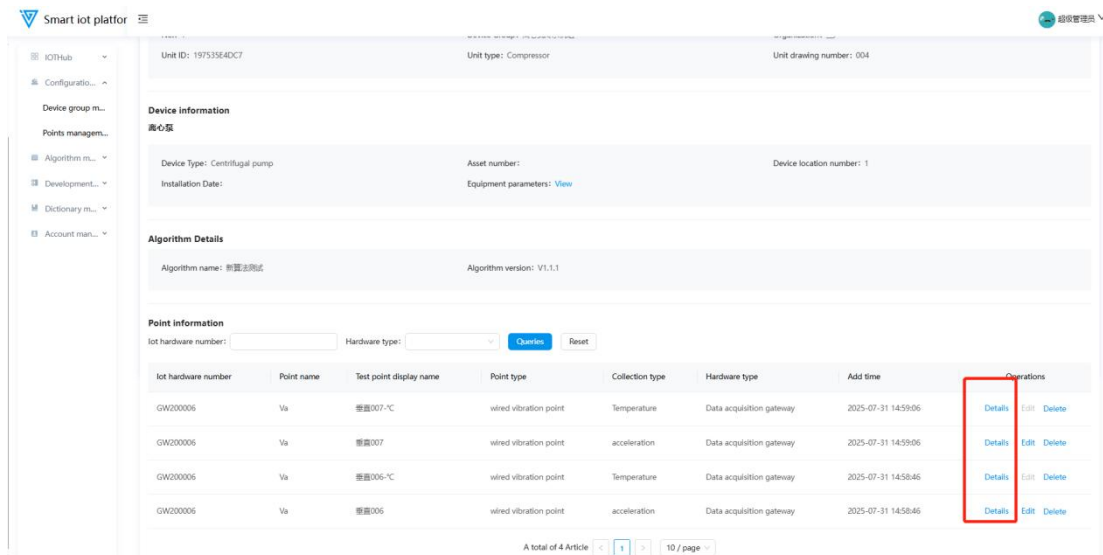
Algorithm Details

Algorithm name: 新算法测试	Algorithm version: V1.1.1
-----------------------	---------------------------

- Click **Learn** to trigger manual algorithm learning (click the blue **times** below to view learning details).



- Click **View** (blue text) to view device parameters.
- View measuring point details below.



Smart iot platfor

IoT Hub

Configuration...

Device group m...

Points managem...

Algorithm m...

Development...

Dictionary m...

Account man...

Configuration management / Points management / Point details

← Point details

IoT hardware information

Basic information

Gateway number: GW200006

Product model number: SD-DA7008

Product type: IOT gateway

Manufacturer: --

State of use: No

Add time: 2025-07-16 17:19:04

Point information

Point location number: 1

Channel number: 7

Point name: Va

Test point display name: 普通007-℃

Collection type: Temperature

Device information

Organizational structure: 三厂

No.: 1

Device name: 离心泵

Bearing model:

Threshold information

Acceleration

Feature type:

Start-stop threshold value:

Customer alarm threshold value:

Threshold value of vibration fluctuation:

Horizontal attention threshold value:

Low-value alarm threshold value:

High-value alarm threshold value:

Alarm rules: Alarm for values below the threshold

- Edit/delete operations:

Smart iot platfor

IoT Hub

Configuration...

Device group m...

Points managem...

Algorithm m...

Development...

Dictionary m...

Account man...

Unit ID: 197535E4DC7

Unit drawing number: 004

Device information

离心泵

Device Type: Centrifugal pump

Installation Date:

Algorithm Details

Algorithm name: 振动监测

Point information

IoT hardware number:

GW200006	Va
GW200006	Va
GW200006	Va
GW200006	Va

Sensor information

Data acquisition di: GW200006

Channel number: 7

Point information

Point location num: 1

Point name: Va

Test point display: 普通007

Collection type: acceleration

Device information

Belonging device: 离心泵-centrif...

Bearing model:

Threshold setting

Acceleration

Feature type: Rms values

Start-stop thresho: 1.0

Customer alarm thre: 30.0

High alarm threshi: 50.0

Low alarm thresho: 40.0

Horizontal attenti: 25.0

Vibration fluctuati: 20.0

Alarm rules: Outage alarm

Velocity

Feature type: Rms values

Start-stop thresho: 1.2

Customer alarm thre: 4.5

High alarm threshi: 7.1

Low alarm thresho: 4.5

Horizontal attenti: 3.7

Vibration fluctuati: 2.3

Alarm rules: Outage alarm

Displacement

Feature type: Rms values

Start-stop thresho: 8.0

Customer alarm thre: 57.0

Add time	Operations
2025-07-31 14:59:06	Details Edit Delete
2025-07-31 14:59:06	Details Edit Delete
2025-07-31 14:58:46	Details Edit Delete
2025-07-31 14:58:46	Details Edit Delete

Smart iot platfor

IoT Hub

Configuration...

Device group m...

Points managem...

Algorithm m...

Development...

Dictionary m...

Account man...

Unit ID: 197535E4DC7

Unit drawing number: 004

Device information

离心泵

Device Type: Centrifugal pump

Installation Date:

Algorithm Details

Algorithm name: 振动监测

Algorithm version: V1.1.1

Point information

IoT hardware number:

Hardware type:

Buttons: Confirm Reset

IoT hardware number	Point name	Test point display name	Point type	Collection type	Hardware type	Add time	Operations
GW200006	Va	普通007-℃	wired vibration point	Temperature	Data acquisition gateway	2025-07-31 14:59:06	Details Edit Delete
GW200006	Va	普通007	wired vibration point	acceleration	Data acquisition gateway	2025-07-31 14:59:06	Details Edit Delete
GW200006	Va	普通006-℃	wired vibration point	Temperature	Data acquisition gateway	2025-07-31 14:58:46	Details Edit Delete
GW200006	Va	普通006	wired vibration point	acceleration	Data acquisition gateway	2025-07-31 14:58:46	Details Edit Delete

A total of 4 Article

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Tip

Are you sure you want to delete this measurement point?

Cancel OK

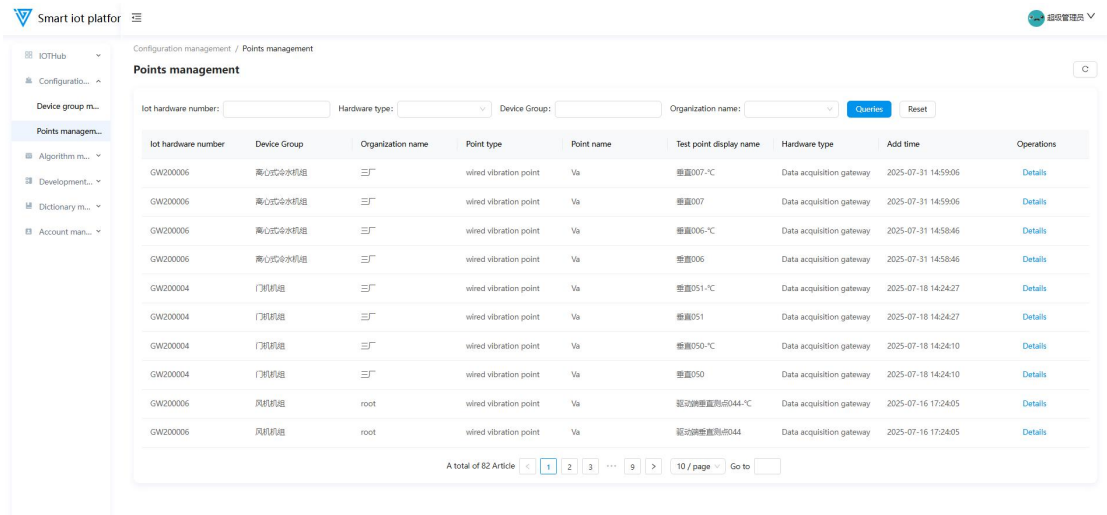
Asset number:

Equipment parameters: View

3.4.2Monitoring Point Management

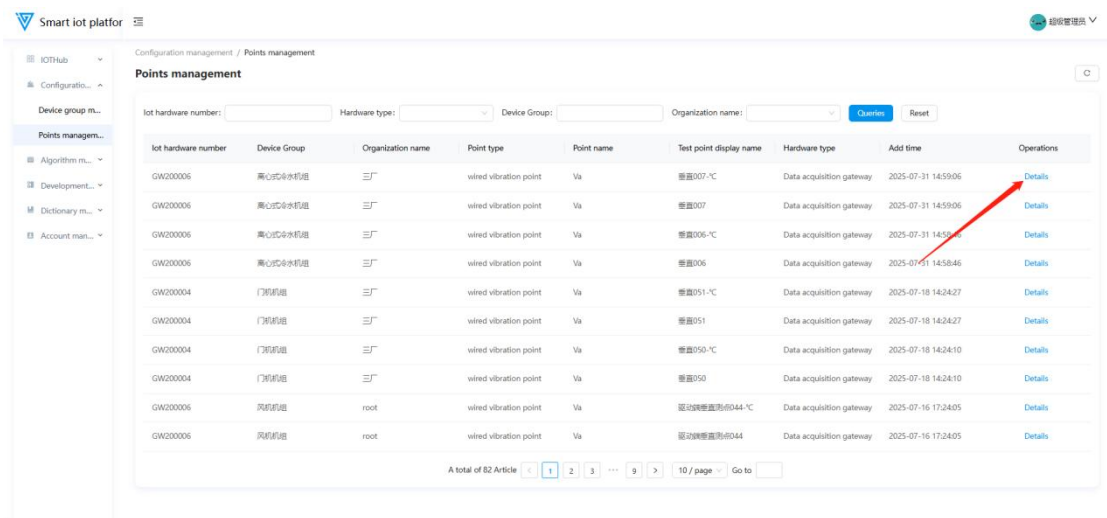
Function Overview

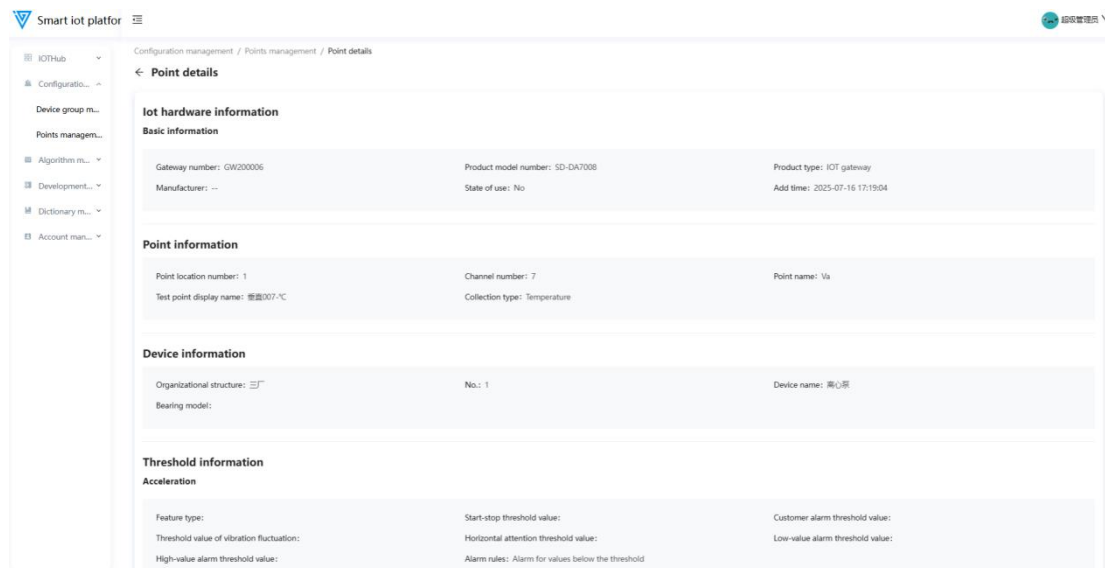
Centrally manages monitoring point information for IoT devices, providing capabilities for data display, quick search, hierarchical navigation, and operational management.



Viewing Details

Click the Details button behind a monitoring point to view its specific details.

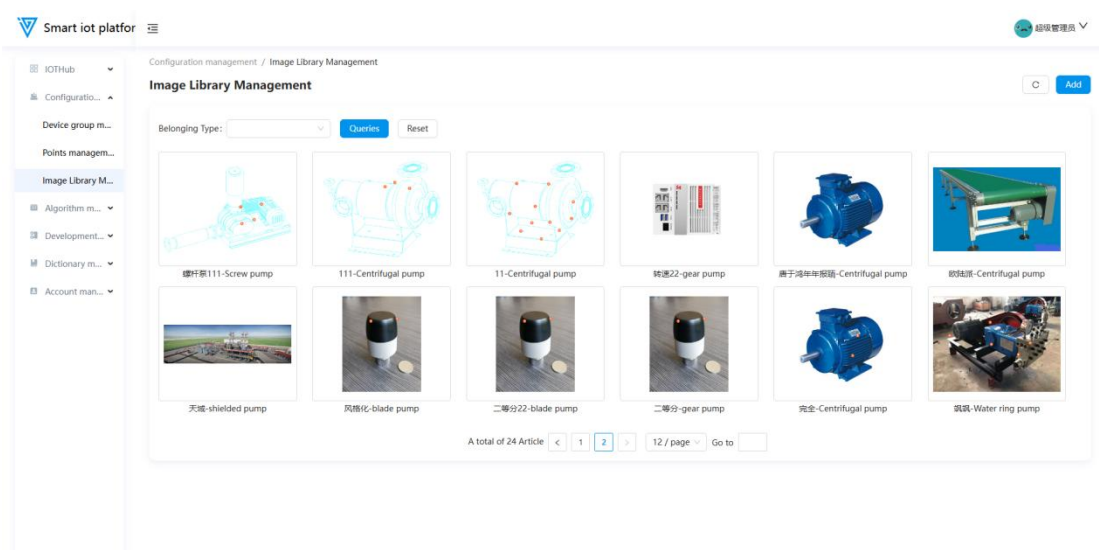




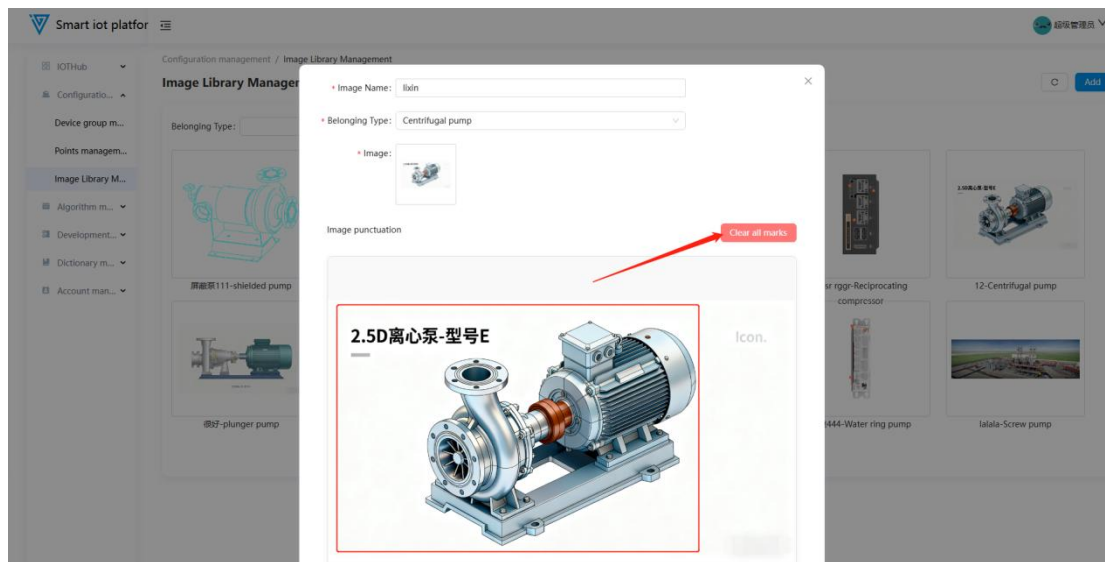
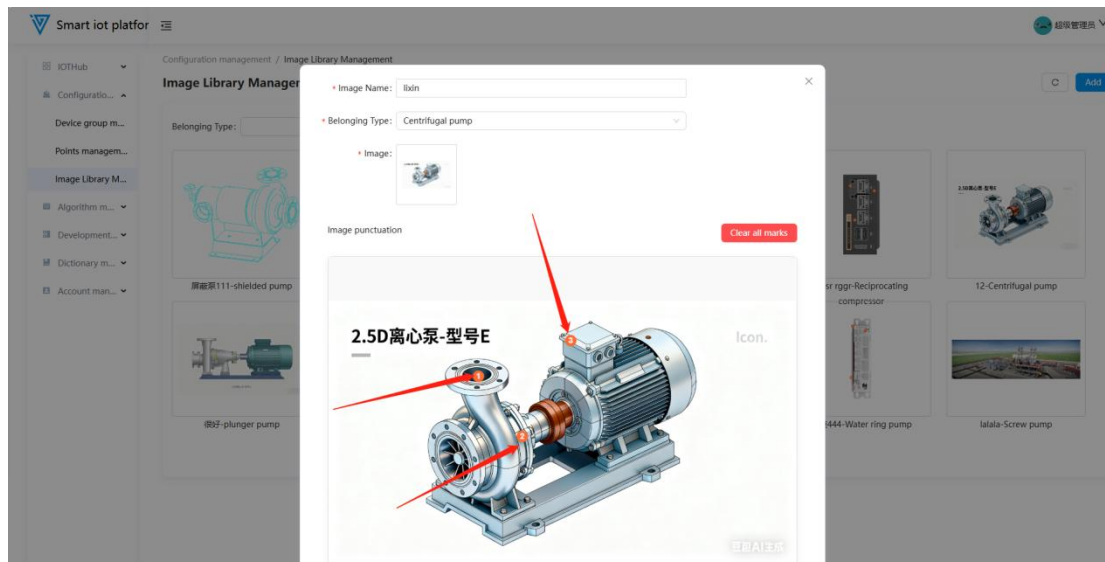
3.4.3 Image Library Management

Function overview

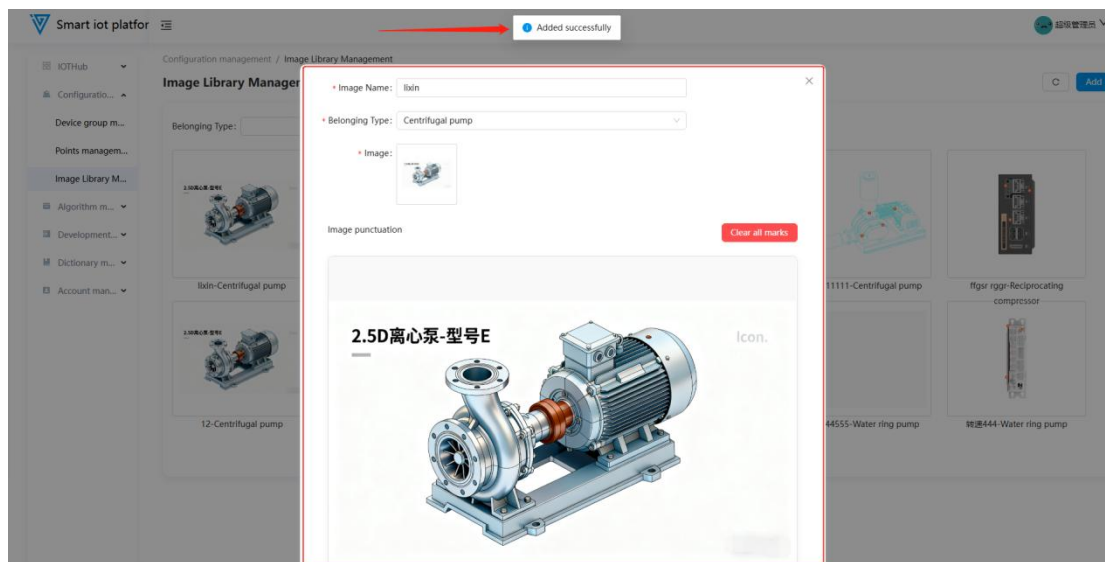
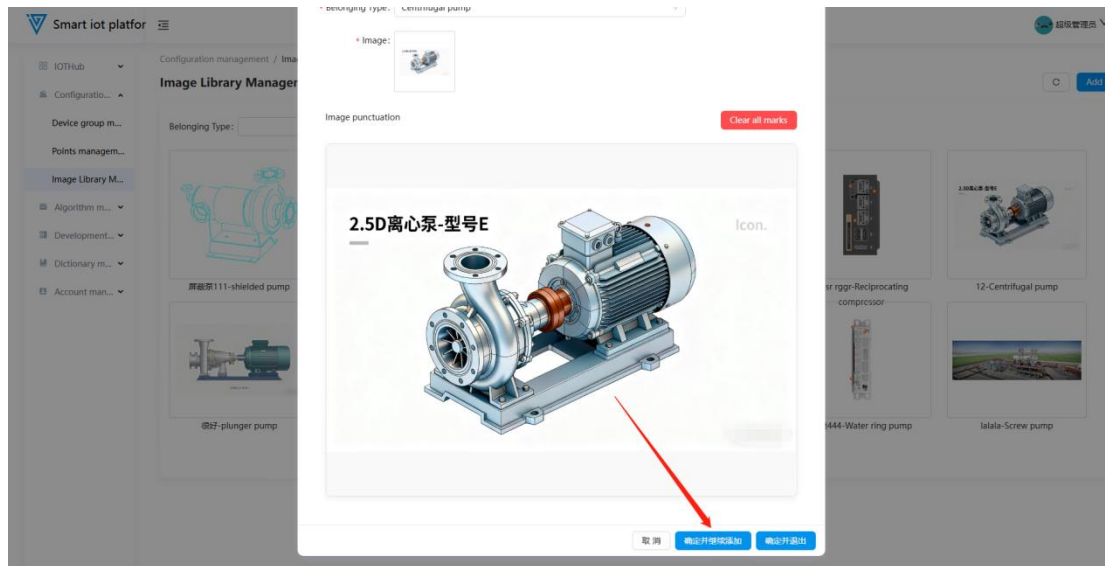
The Image Library Management List displays images as cards which are sorted in a reverse chronological order by the creation dates. You can add, edit, search, and delete these cards.



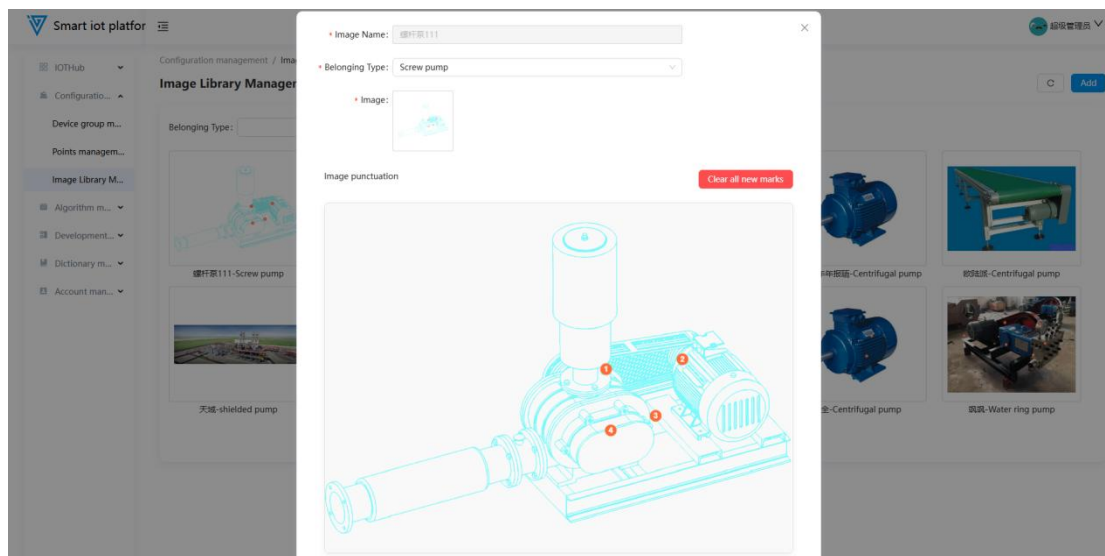
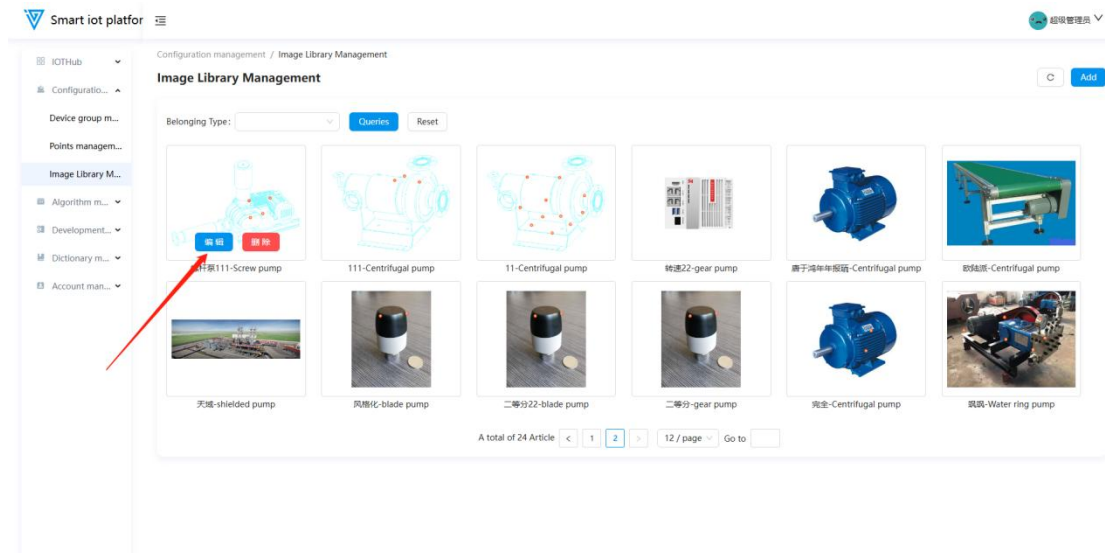
Click the image to open a pop-up window, thereby showing an enlarged image.



To save the adding content, click the “Confirm and Continue Adding” button to save the current image information. The pop-up window will remain open, and the entered content will not be cleared. You can change the image name and continue adding.



Click the “Confirm and Exit” button to save the current image information. The pop-up window will be closed, and the form contents will be cleared.



To edit image punctuation, simply click the relevant image location. The punctuation numbers will increment sequentially. To remove the punctuation, click the “Clear All Marks” button in the upper right corner to remove all recently added markers from the image.

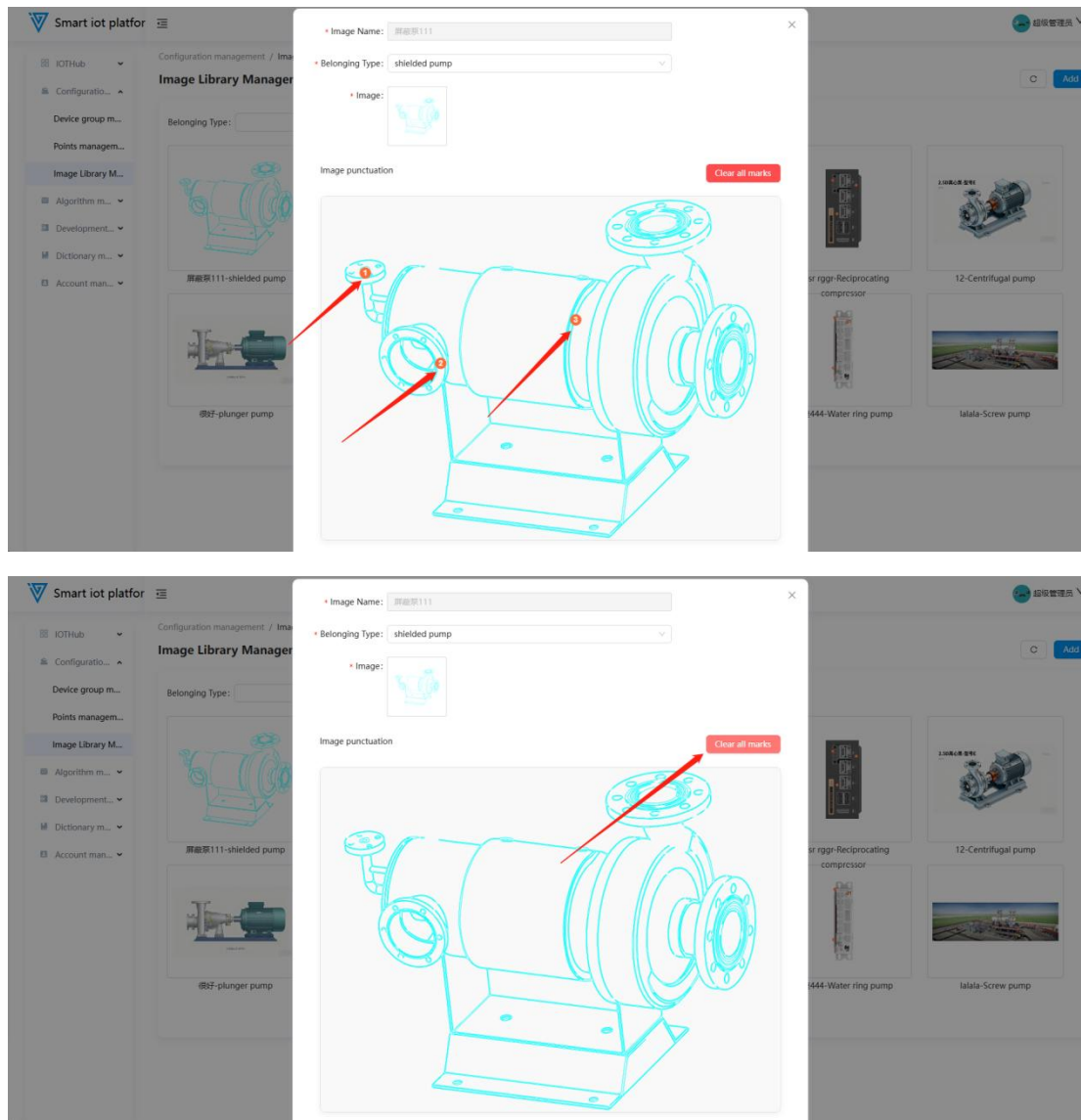


Image deletion

Click the “Delete” button below the list card to open the secondary confirmation pop-up window, “Are you sure you want to delete this image?” Click “Confirm” to delete the current image. The pop-up window will disappear and the list will be refreshed.

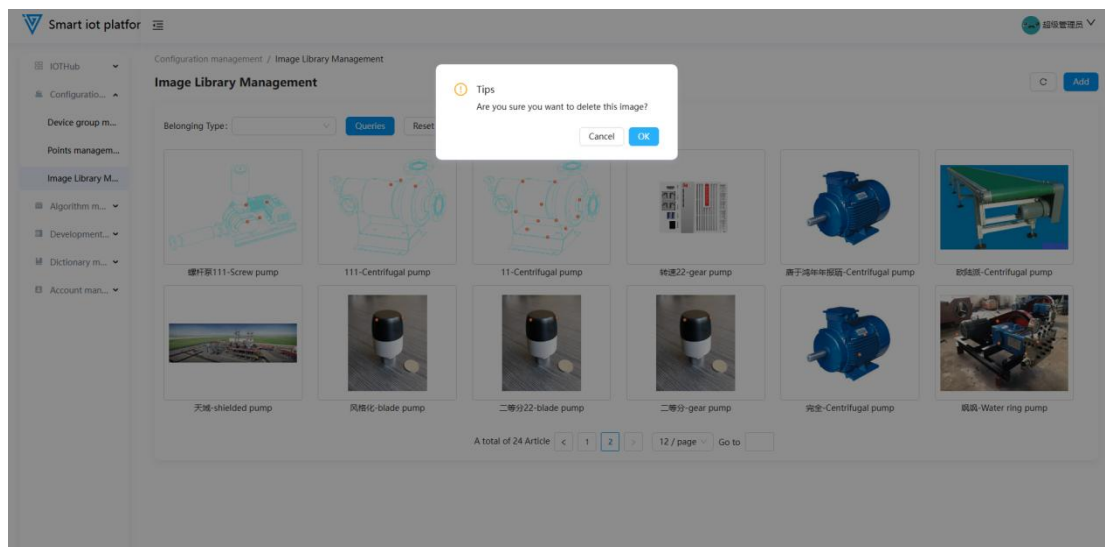
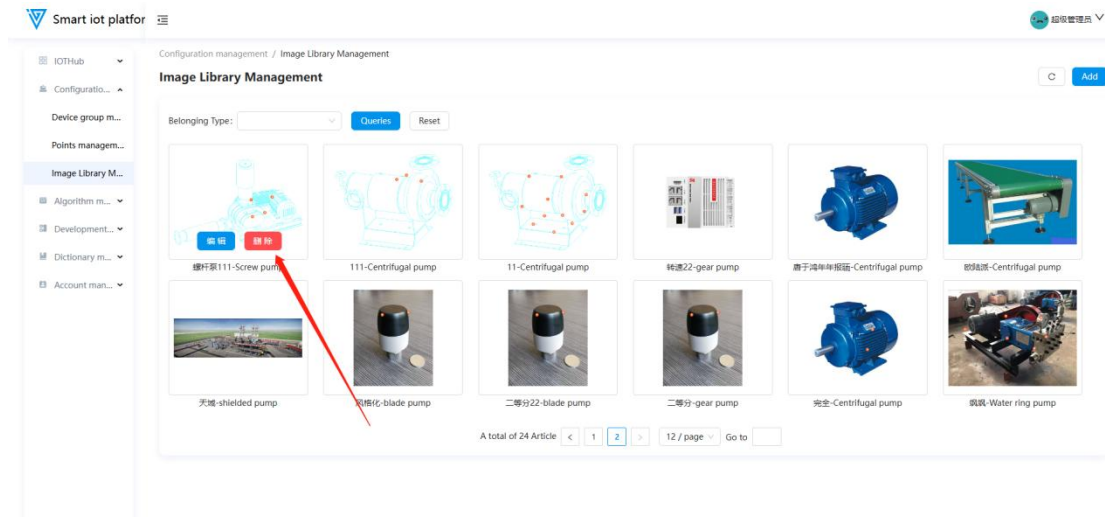
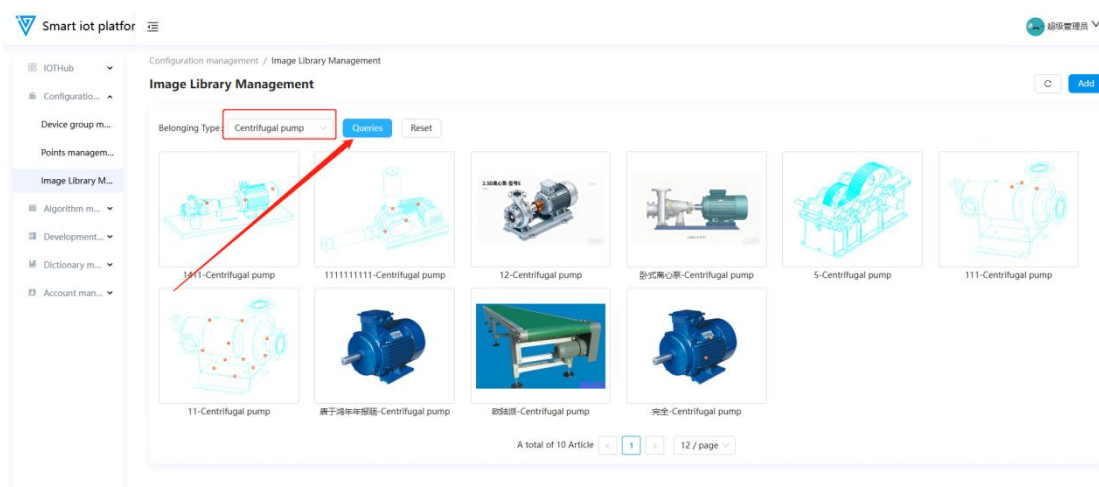
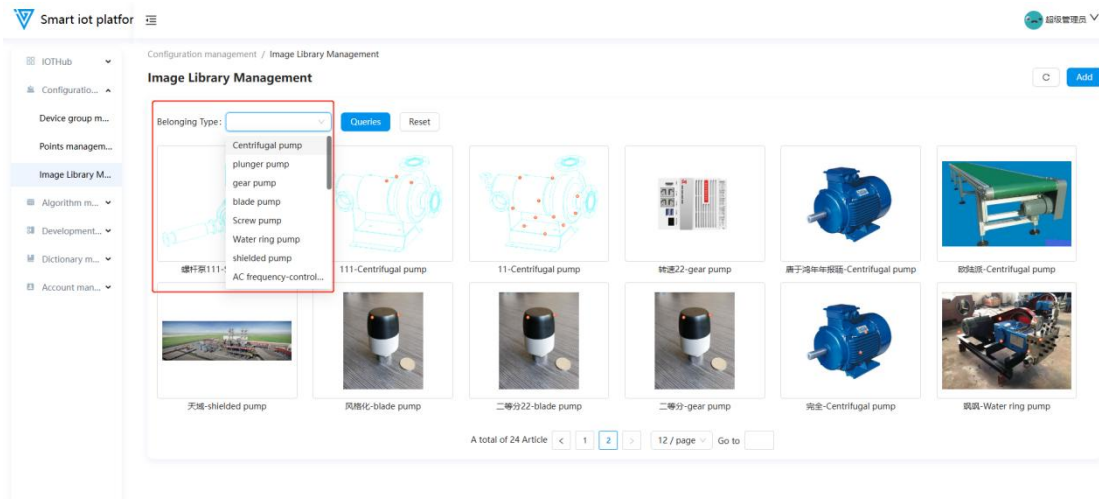


Image query

The query condition is the belonging type. The dropdown menu displays all unit types. Select the desired type, and then click the “Query” button to perform the action. Click “Reset” to return to the initial page.

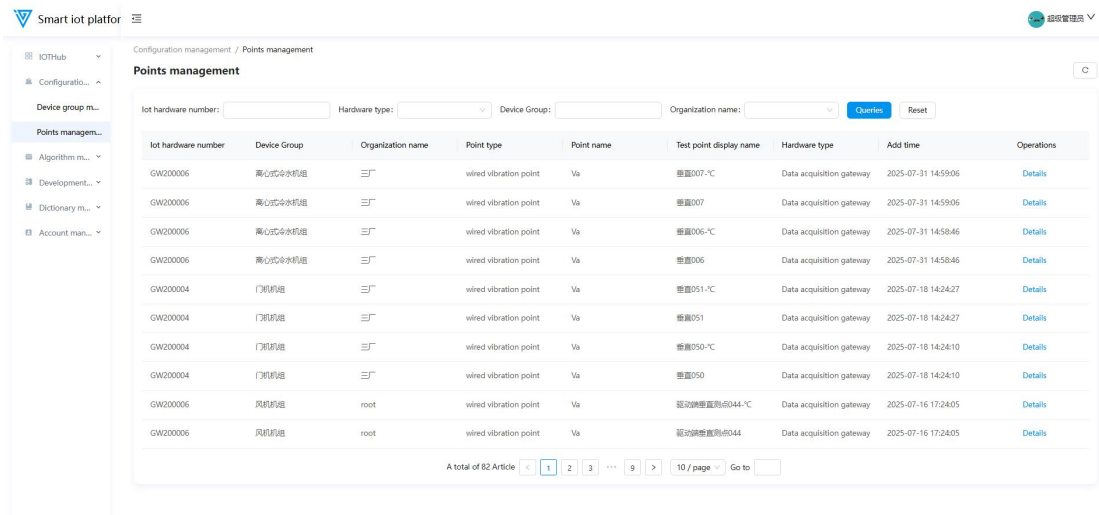


3.5Algorithm Management

3.5.1Algorithm Management

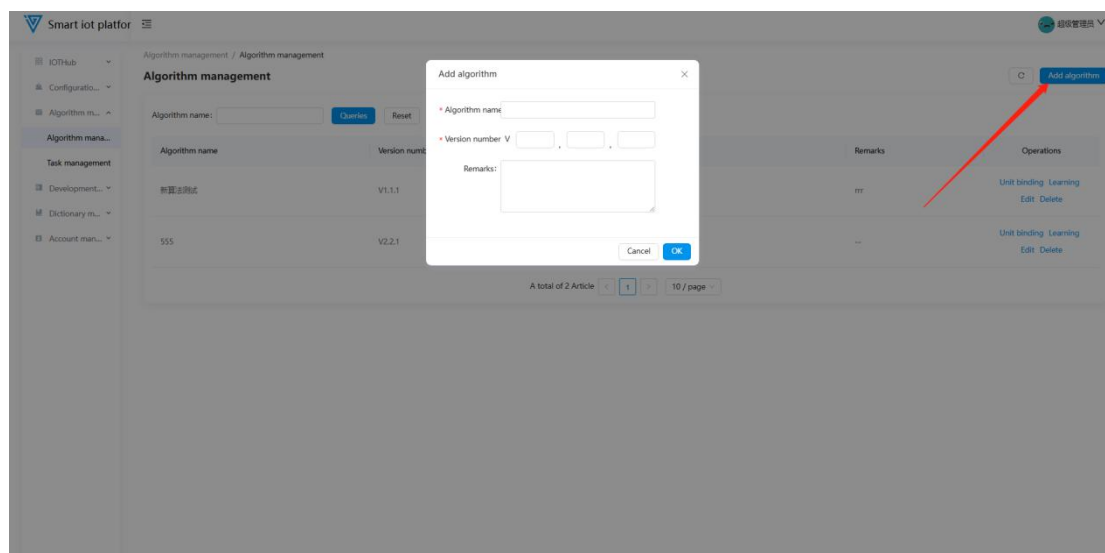
Function Overview

Administrators can query algorithms by name/unit type, add/download/set as default, and record version/uploader metadata for traceability.



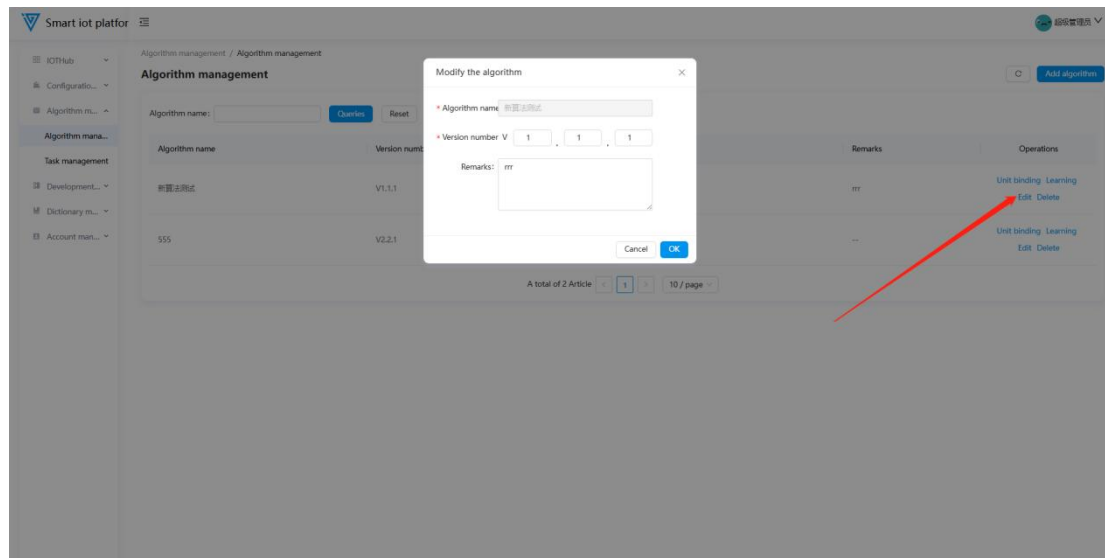
Algorithm Addition

Click the "Add Algorithm" button in the upper right corner of the page to open the algorithm addition popup. Fill in the required information and click the "Confirm" button to successfully add the algorithm.



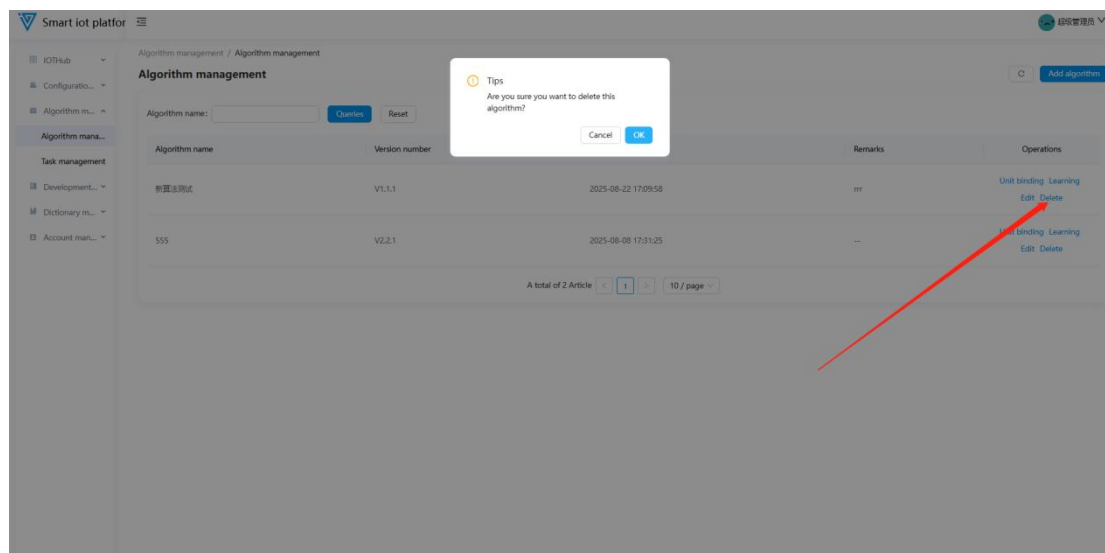
Algorithm Editing

To edit an existing algorithm, click the "Edit" button to open the algorithm modification popup. After making the necessary changes, click the "Confirm" button to update the algorithm successfully.



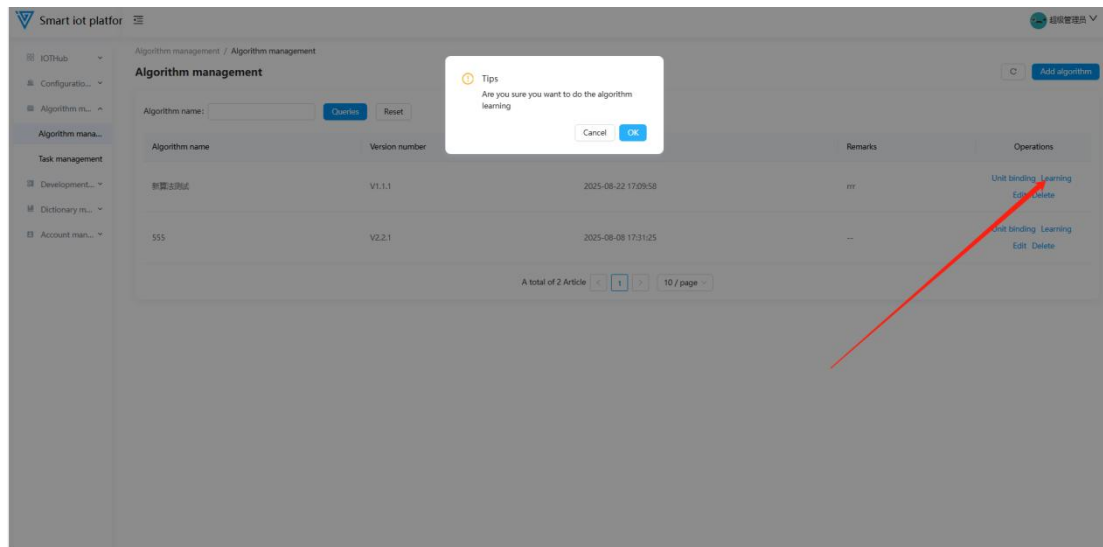
Algorithm Deletion

Algorithms that are not bound to any algorithm stream can be deleted. For algorithms already bound to an algorithm stream, unbinding must be performed before deletion.



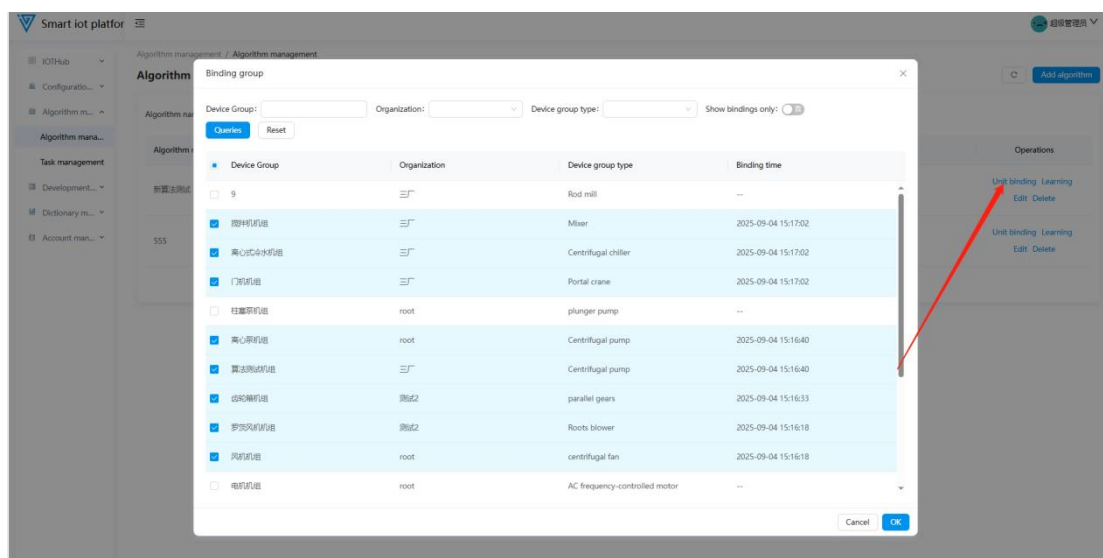
Algorithm Learning

Once an algorithm is used by an algorithm stream, automatic learning tasks will be created when the bound equipment data meets the auto-learning conditions. Users can also manually trigger a learning task by clicking the "Learn" button on the automatic learning algorithm management page.



Equipment Binding

Click the "Equipment Binding" button in the list to enter the algorithm-equipment binding popup. Select the equipment units to be bound to the algorithm stream and click the "Confirm" button to complete the binding operation.



3.5.2 Task Management

Functional Overview

The Task Management module primarily displays information about AI inference and learning tasks. Queries can be performed based on task status, acquisition time, and equipment unit name.

Smart IoT platform

任务管理 / Task management

Task management

Collection time: Start date End date Task status: Device Group: Queries Reset

Task ID	Unit ID	Collection time	Task status	Algorithm name	Version number	Device Group	Organization	Execution start time	Execution time	Operations
9c5042d0-2c54-469b-94ee-ad212bf012c	d77ae067-d549-4074-999e-d71aba7041f8	2025-10-09 15:00:12	待执行	新算法测试	1.1.1	罗茨风机机组	测试2	---	---	View Logs
8931e3bd-2bc4-4570-ad93-7cc66443048	a4453a5b-ca53-4c8c-873e-b4d55cc904e2	2025-10-09 15:00:12	待执行	新算法测试	1.1.1	离心式冷水机组	三厂	---	---	View Logs
56224224-a59c-4d2b-81aa-7db8a1d3a168	bd882b6-6d5d-4b7b-b8ea-6c0f91eafb7	2025-10-09 15:00:12	待执行	新算法测试	1.1.1	冷却塔风机组	测试2	---	---	View Logs
e3bac23e-3c56-4c05-ad73-6302ca4a50f	396b2a0f-6bab-4097-b49c-16afafa07ed	2025-10-09 15:00:12	待执行	新算法测试	1.1.1	算法测试机组	三厂	---	---	View Logs
dddda9a8-f029-4954-bc44-089d573a43a5	bd882b6-6d5d-4b7b-b8ea-6c0f91eafb7	2025-10-09 15:00:12	待执行	新算法测试	1.1.1	冷却塔风机组	测试2	---	---	View Logs
ec2faa0-883c-4418-9b15-65131e999045	5f29fb2-c371-4a63-b045-c381751b92ee	2025-10-09 15:00:12	待执行	新算法测试	1.1.1	门机机组	三厂	---	---	View Logs
931e30a2-a142-418b-814e-2f5ad948b384	396b2a0f-6bab-4097-b49c-16afafa07ed	2025-10-09 15:00:12	待执行	新算法测试	1.1.1	算法测试机组	三厂	---	---	View Logs
c038f8b0-b2c5-4a56-b03d-a862b3ca27b	0c744c7b-ae54-4be8-a0c3-4867e5b2bc18	2025-09-18 19:59:28	成功	新算法测试	1.1.1	离心泵机组	root	2025-09-18 19:59:37	0.21574998	View Logs
fa5c5360-8304-4e1e-9aa3-9113c6a3eaf	5f29fb2-c371-4a63-b045-c381751b92ee	2025-09-18 19:59:28	成功	新算法测试	1.1.1	门机机组	三厂	2025-09-18 19:59:36	0.22563028	View Logs

Task details

Click View button at the back of the task to pop up the details window of the task clicked, which displays the basic information, data information and log information of the task.

智能IoT平台

算法管理 / 任务管理

任务管理

暂停管理 工单管理 学习任务

采集时间: Start date End date 执行开始时间: Start date End date 任务状态: 机组名称:

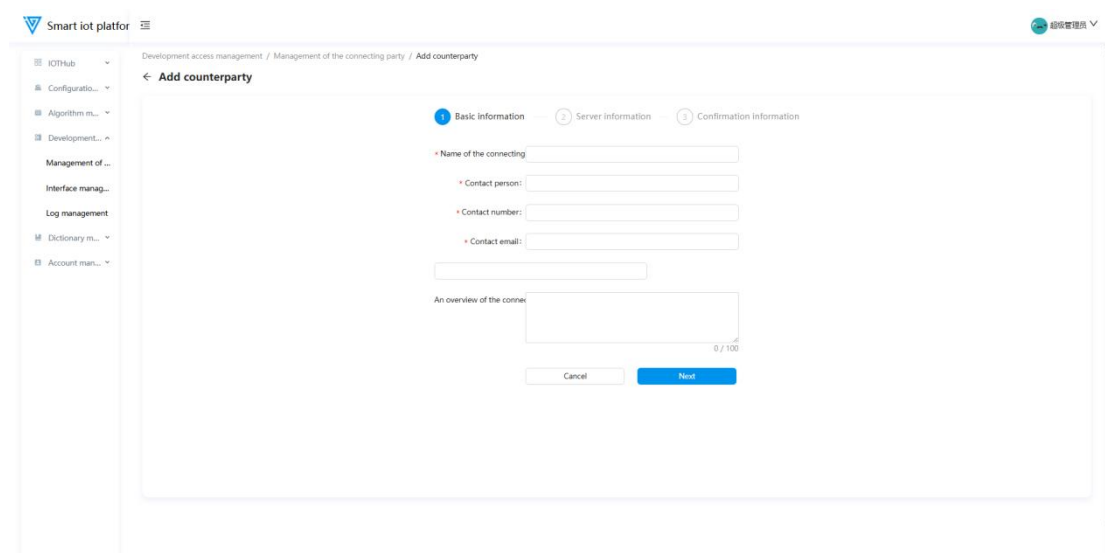
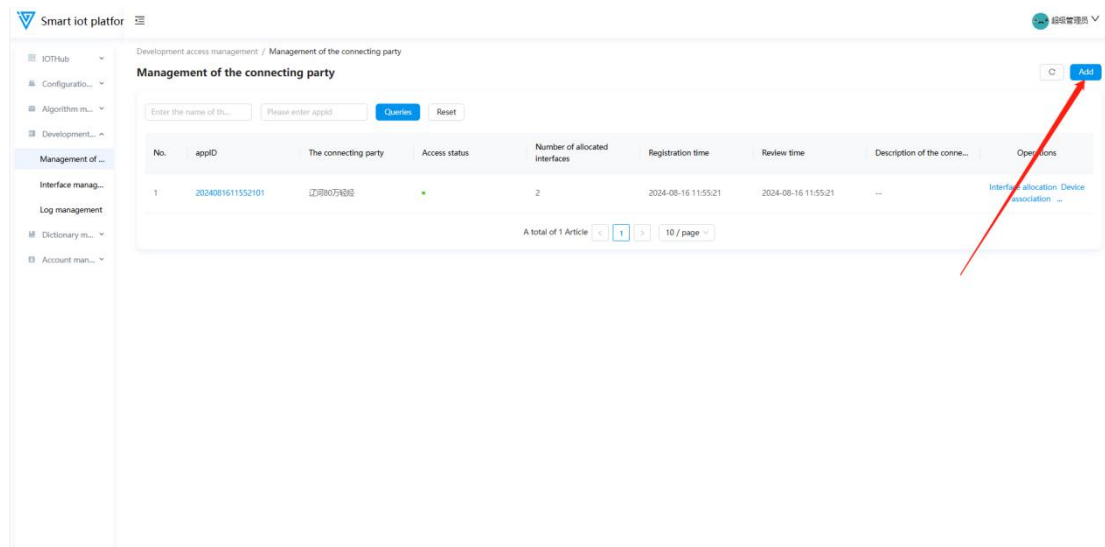
查看 重置

任务id	采集时间	任务状态	执行开始时间	算法名称	版本号	所属组织	机组名称	机组类型	操作
3435247d-2d07-4d09-9b58-e100ba8202d4	2025-03-12 11:14:21	已忽略	2025-03-12 11:14:26	离心泵一直启动	1.1.1	Sinseggy Moscow	Pump unit	机泵	查看 取消
89bca8db-c8a7-4a01-bddb-b13054e6a739	2025-03-12 11:14:20	成功	2025-03-12 11:14:23	离心泵一直启动	1.1.1	Sinseggy Moscow	Pump unit	机泵	查看 取消
62ccc31b-a0cc-4705-b98f-77acff044928	2025-03-12 11:14:20	成功	2025-03-12 11:14:20	离心泵一直启动	1.1.1	80万轻烃塔器	测试机组001	机泵	查看 取消
7b3c8ea4-a3da-4b8c-86c3-2ccdd2353252	2025-03-12 11:12:20	已忽略	2025-03-12 11:12:26	离心泵一直启动	1.1.1	Sinseggy Moscow	Pump unit	机泵	查看 取消
0efbc959-5469-4b62-99ff-fbe78b6e1f51	2025-03-12 11:12:20	成功	2025-03-12 11:12:23	离心泵一直启动	1.1.1	Sinseggy Moscow	Pump unit	机泵	查看 取消
6acc4a52-8924-45b4-99bd-43be24b86117	2025-03-12 11:12:20	成功	2025-03-12 11:12:20	离心泵一直启动	1.1.1	80万轻烃塔器	测试机组001	机泵	查看 取消
6aa485f8-2244-4412-b035-d10239f8a98b	2025-02-13 10:50:12	已忽略	2025-03-12 11:10:03	离心泵一直启动	1.1.1	Sinseggy Moscow	Pump unit	机泵	查看 取消
c13290bb-1d73-4bd7-b8f9-b29be4a5214	2025-03-12 11:06:58	已忽略	2025-03-12 11:07:04	离心泵一直启动	1.1.1	Sinseggy Moscow	Pump unit	机泵	查看 取消

The screenshot displays the 'Task Management' (任务管理) section of the 'Vocational IoT Platform' (智慧IoT平台). The interface includes a sidebar with navigation options like 'Algorithm Management' (算法管理) and 'Task Management' (任务管理). The main area shows a table of tasks with columns: Task ID, Collection Time, Task Status, Execution Start Time, and Algorithm Name. The tasks are listed in a table, and the status of each task is shown as 'Completed' (已部署) or 'Running' (运行中).

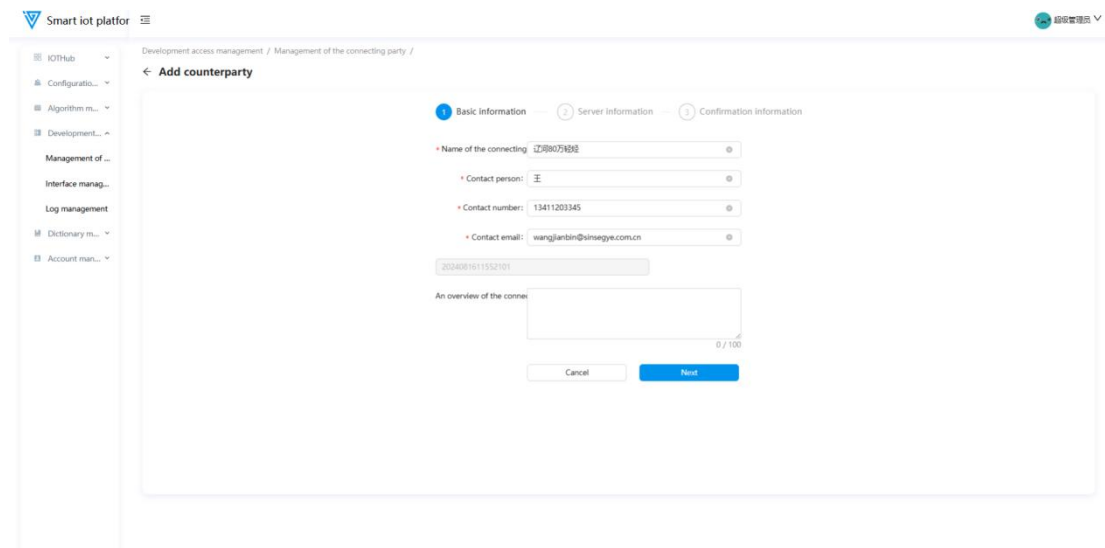
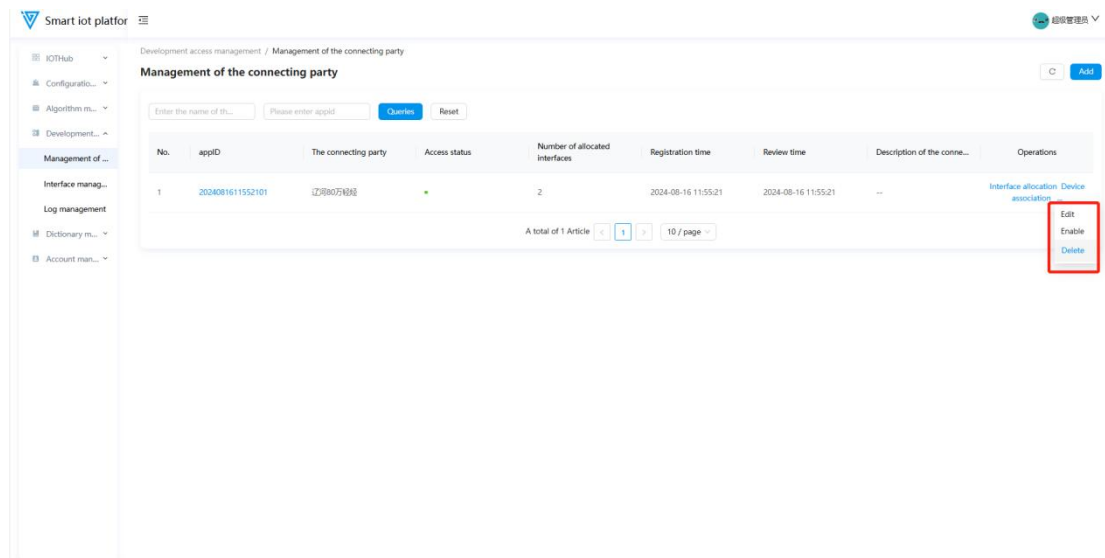
任务id	采集时间	任务状态	执行开始时间	算法名称
3435247d-2d07-4d09-9b58-e100ba8202dd	2025-03-12 11:14:21	已部署	2025-03-12 11:14:26	--
8f9cab3b-c5a7-4a01-bdcb-130646a739	2025-03-12 11:14:20	成功	2025-03-12 11:14:23	1.473
62ccc31b-adcc-4705-b9ff-77ac0f44928	2025-03-12 11:14:20	成功	2025-03-12 11:14:20	1.866
fb3c8ea4-a3da-4b0c-8b63-2ccdd2353252	2025-03-12 11:12:20	已部署	2025-03-12 11:12:26	--
0efbc5b8-5469-4b62-99ff-fbe76bbe1f51	2025-03-12 11:12:20	成功	2025-03-12 11:12:23	1.538
8acc4a52-8924-45b4-99bd-43bc24b86117	2025-03-12 11:12:20	成功	2025-03-12 11:12:20	1.932
6aa485b8-2444-4412-b035-d1f239ba98b	2025-02-13 10:50:12	已部署	2025-03-12 11:10:03	--
c13290bc-1d73-4bd7-b8f0-b29be445f214	2025-03-12 11:06:58	已部署	2025-03-12 11:07:04	--

Navigate to the Integration Partner Management page, click the "Add" button in the upper right corner, and enter the partner addition interface. Fill in the basic information and server details of the partner, then click the "Submit" button to complete the addition.



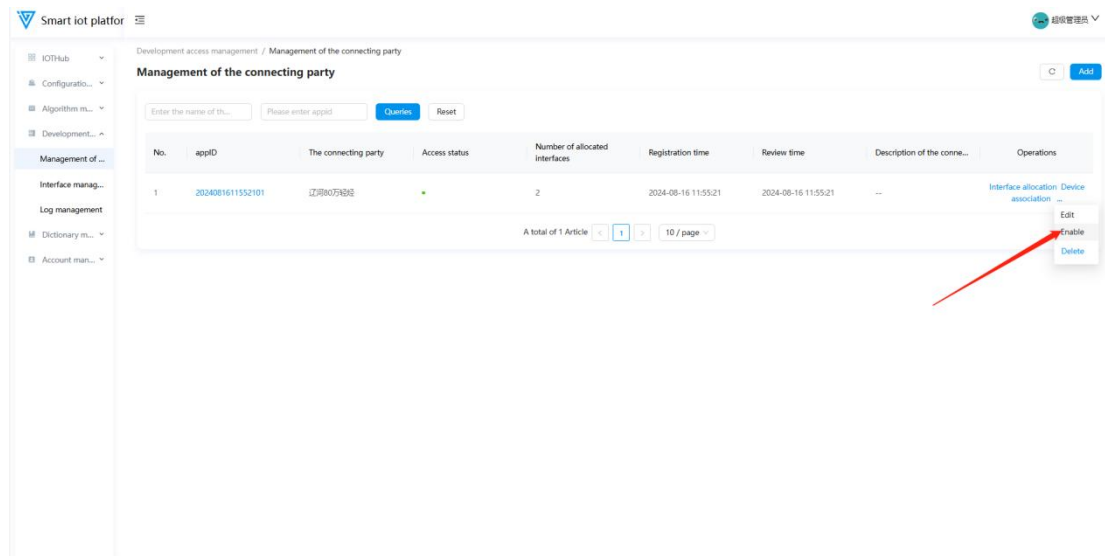
Editing an Integration Partner

Existing integration partners can be edited. Hover the mouse over the "..." menu, click the "Edit" button to enter the editing interface, and modify the partner details as needed.

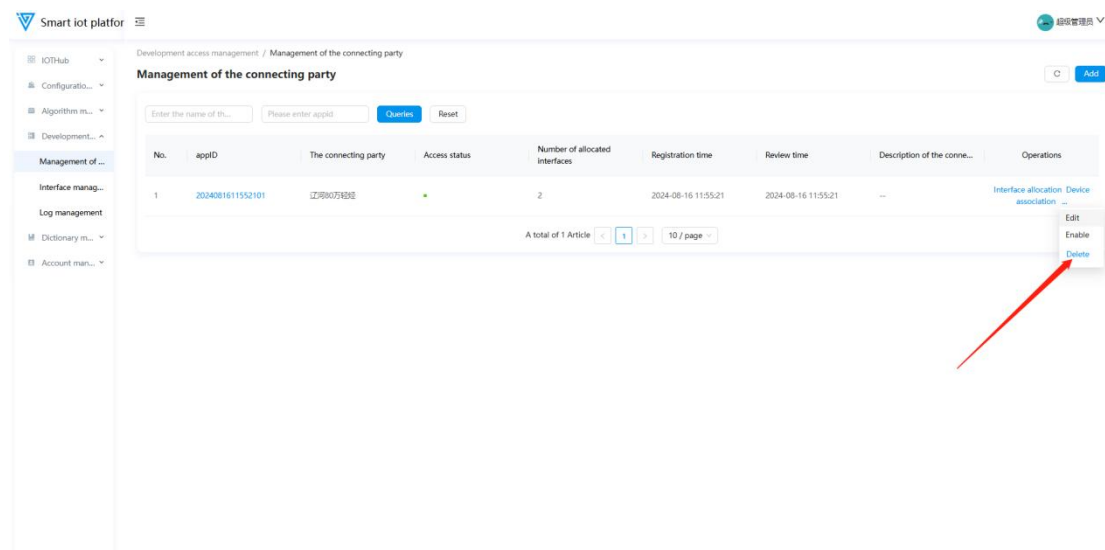


Enabling/Disabling an Integration Partner

Newly added integration partners are enabled by default. Click the "Disable" button to change the partner's status to disabled. Disabled partners can be re-enabled.



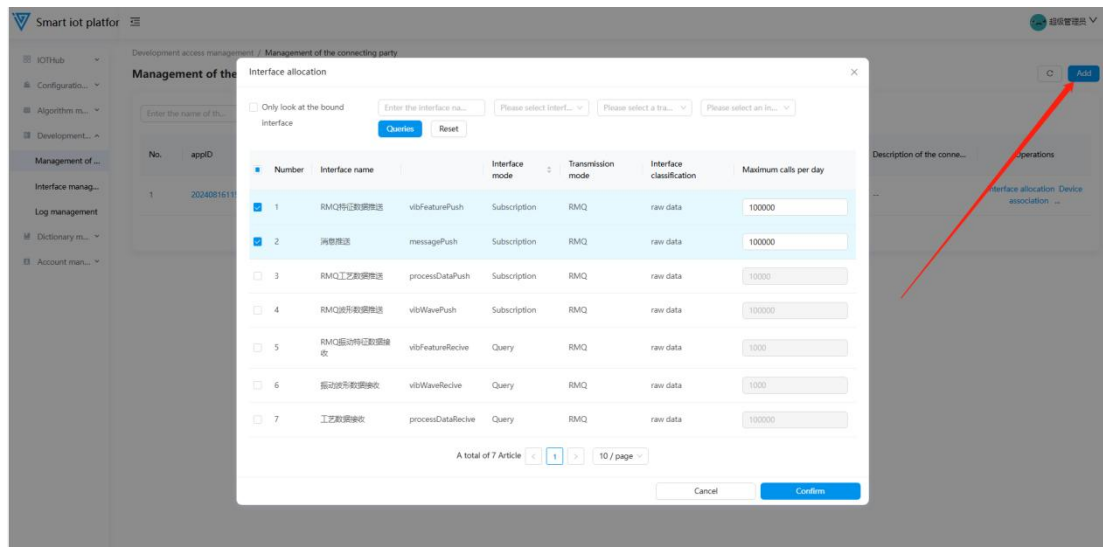
Only disabled partners can be deleted.



Interface Allocation

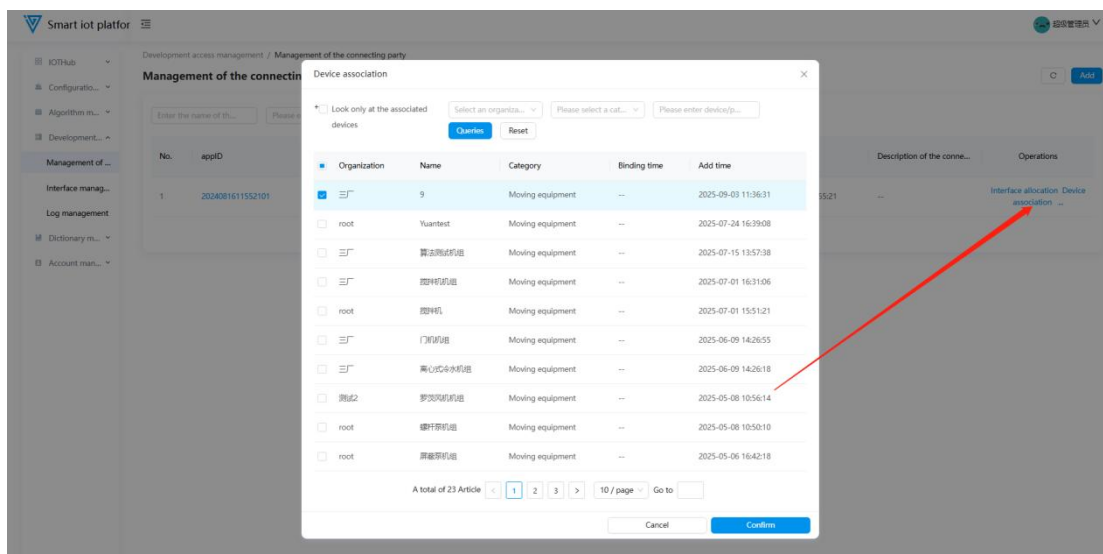
Data transmission and reception for integration partners are handled through interfaces. During partner management, interface allocation is performed by clicking the "Interface Allocation" button on the interface, which opens a pop-up window. In this window, assign the corresponding interfaces and set the maximum daily call count.

Once the daily call limit is exceeded, data reception and data pushing will be suspended for the remainder of the day.



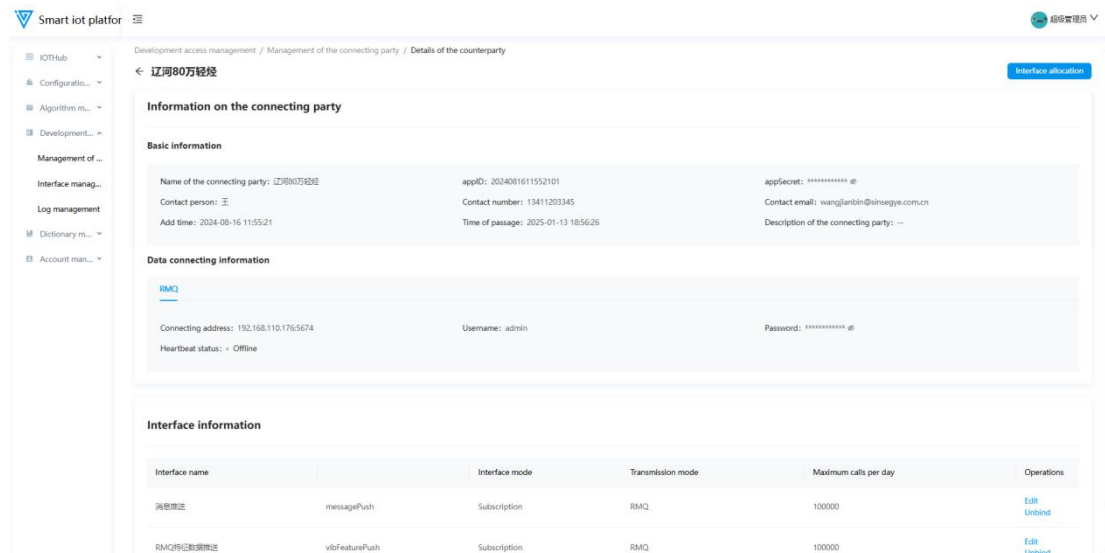
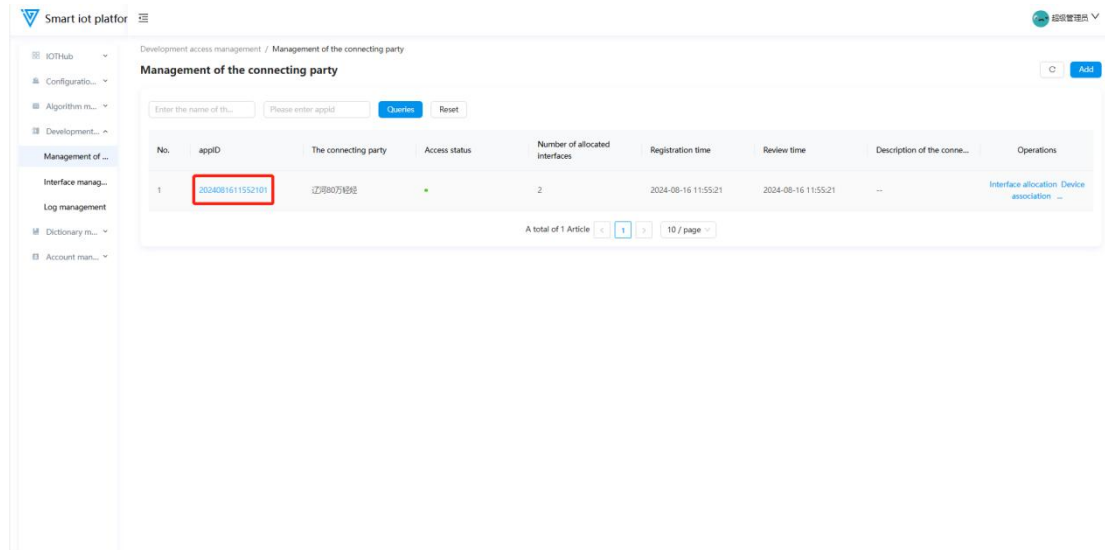
Device Association

After associating devices with an integration partner, data generated by the devices can be pushed to users via the partner. Alternatively, device information received from users can be displayed on the intelligent diagnosis platform. To associate devices, click the "Device Association" button on the page, check the devices to be associated in the popup window, and click "Confirm."



Integration Partner Details

Each added integration partner is assigned an appID. Clicking on the partner's appID will navigate to the partner details page, displaying basic information, data integration details, and interface binding information.



3.6.2 Interface Management

Functional Overview

The Interface Management module primarily supports operations such as adding interfaces, editing interfaces, binding integration partners, enabling/disabling interfaces, and deleting interfaces.

Smart IoT platform

Development access management / Interface management

Interface management

Enter the interface name: Please select interface: Please select an interface: Query Reset

No.	Interface name	Interface mode	Transmission mode	Interface type	Add time	Interface description	Operations
1	MQTT消息推送	messagePush	Subscription	MQTT	raw data	2023-02-10 15:02:05	...
2	RMQ工艺数据推送	processDataPush	Subscription	RMQ	raw data	2022-12-29 16:33:10	...
3	RMQ设备数据推送	vibWavePush	Subscription	RMQ	raw data	2022-12-29 16:31:25	...
4	RMQ特征数据推送	vibFeaturePush	Subscription	RMQ	raw data	2022-12-29 15:17:03	...
5	OPCUA设备工艺数据	processDataReflect	Query	OPCUA	raw data	2022-12-27 18:09:34	...
6	RMQ设备特征数据接收	vibFeatureReflect	Query	RMQ	raw data	2022-12-26 18:26:04	...
7	MQTT设备数据接收	vibWaveReflect	Query	MQTT	raw data	2022-12-26 18:01:20	...
8	MQTT设备特征数据接收	vibFeatureReflect	Query	MQTT	raw data	2022-12-26 18:00:26	...
9	MQTT工艺数据	processDataReflect	Query	MQTT	raw data	2022-12-26 17:51:33	...
10	设备数据接收接收	vibWaveReflect	Query	RMQ	raw data	2022-12-26 15:49:07	...

Adding an Interface

Click the "Add" button in the upper right corner of the page to open the interface addition pop-up window. After filling in the corresponding interface information, click the "Confirm" button to successfully add the interface.

Smart IoT platform

Development access management / Interface management

Interface management

Enter the interface name: Please select interface: Please select an interface: Query Reset

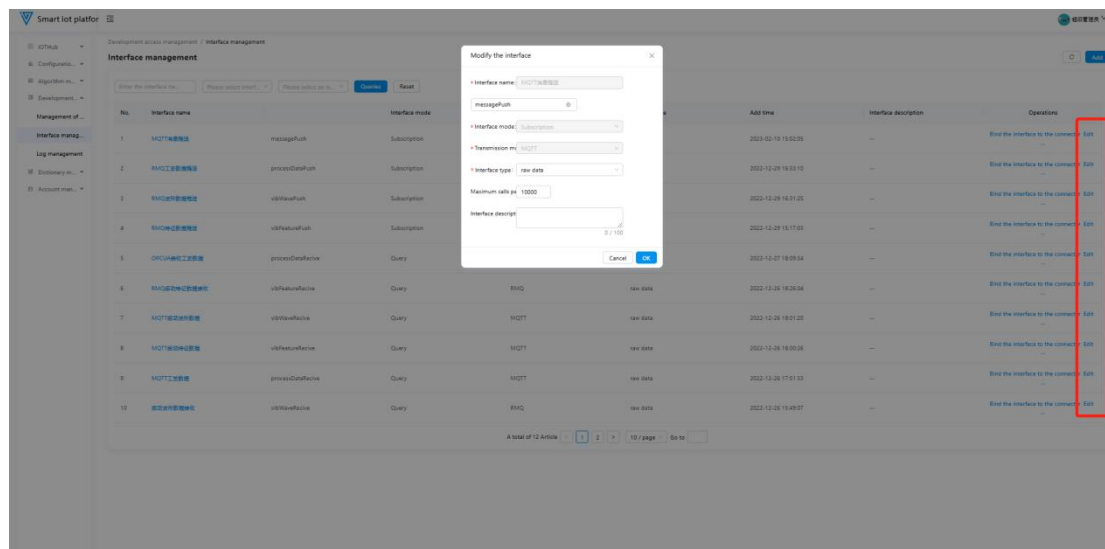
Interface name: Interface mode: Transmission mode: Interface type: Maximum calls per second: 100 Interface description: 0 / 100

Cancel Confirm

No.	Interface name	Interface mode	Transmission mode	Interface type	Add time	Interface description	Operations
1	MQTT消息推送	messagePush	Subscription	MQTT	raw data	2023-02-10 15:02:05	...
2	RMQ工艺数据推送	processDataPush	Subscription	RMQ	raw data	2022-12-29 16:33:10	...
3	RMQ设备数据推送	vibWavePush	Subscription	RMQ	raw data	2022-12-29 16:31:25	...
4	RMQ特征数据推送	vibFeaturePush	Subscription	RMQ	raw data	2022-12-29 15:17:03	...
5	OPCUA设备工艺数据	processDataReflect	Query	OPCUA	raw data	2022-12-27 18:09:34	...
6	RMQ设备特征数据接收	vibFeatureReflect	Query	RMQ	raw data	2022-12-26 18:26:04	...
7	MQTT设备数据接收	vibWaveReflect	Query	MQTT	raw data	2022-12-26 18:01:20	...
8	MQTT设备特征数据接收	vibFeatureReflect	Query	MQTT	raw data	2022-12-26 18:00:26	...
9	MQTT工艺数据	processDataReflect	Query	MQTT	raw data	2022-12-26 17:51:33	...
10	设备数据接收接收	vibWaveReflect	Query	RMQ	raw data	2022-12-26 15:49:07	...

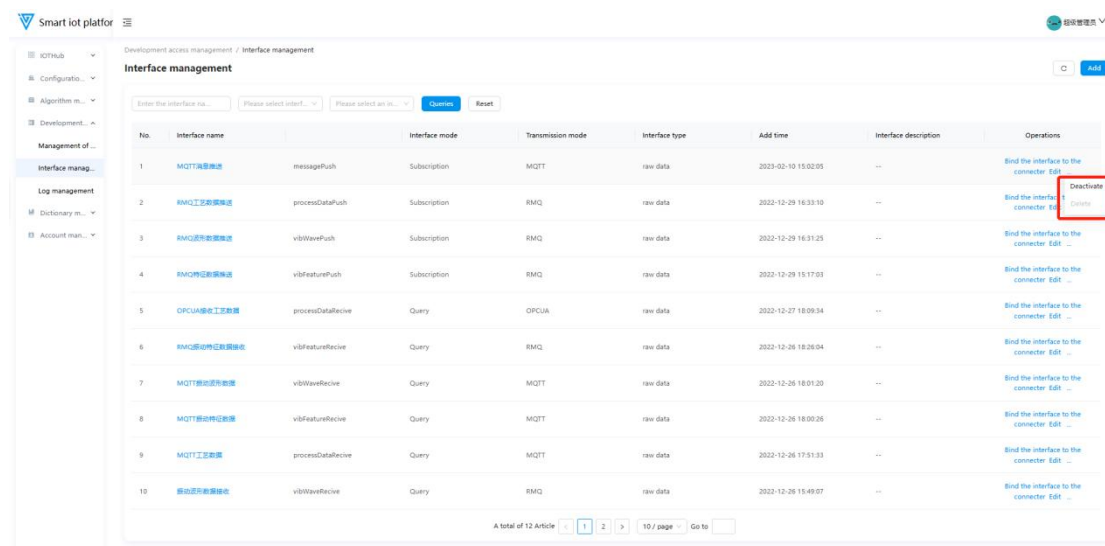
Editing an Interface

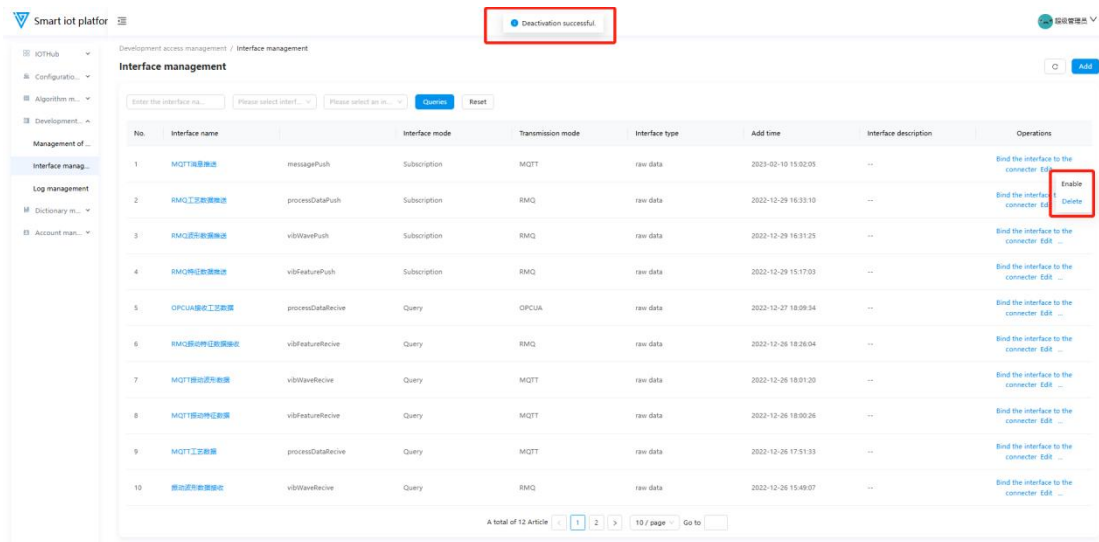
To update or modify an existing interface, click the "Edit" button on the page to open the editing pop-up window. After making the necessary changes, click the "Confirm" button to complete the interface editing operation.



Enabling/Disabling and Deleting an Interface

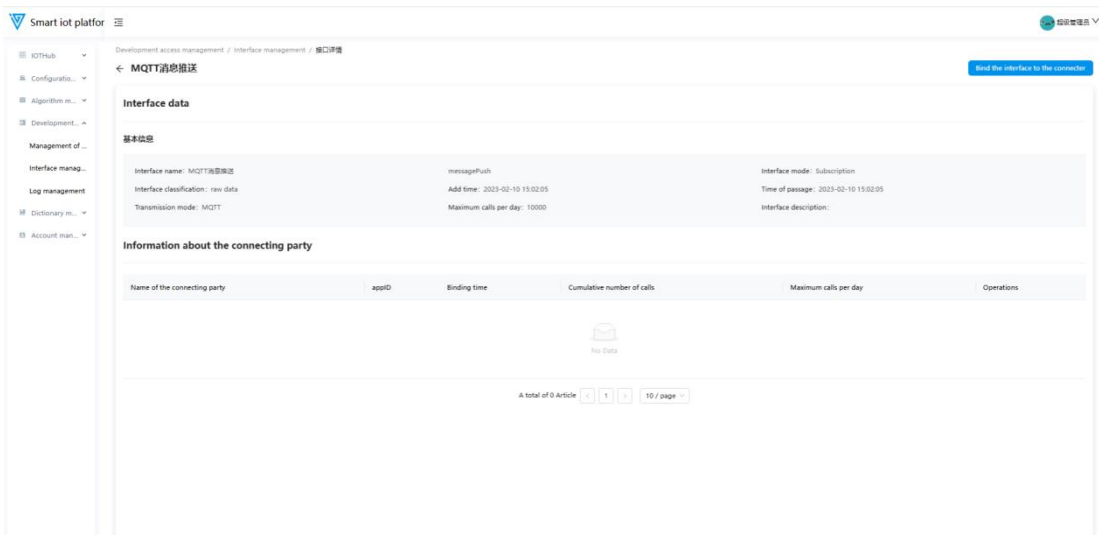
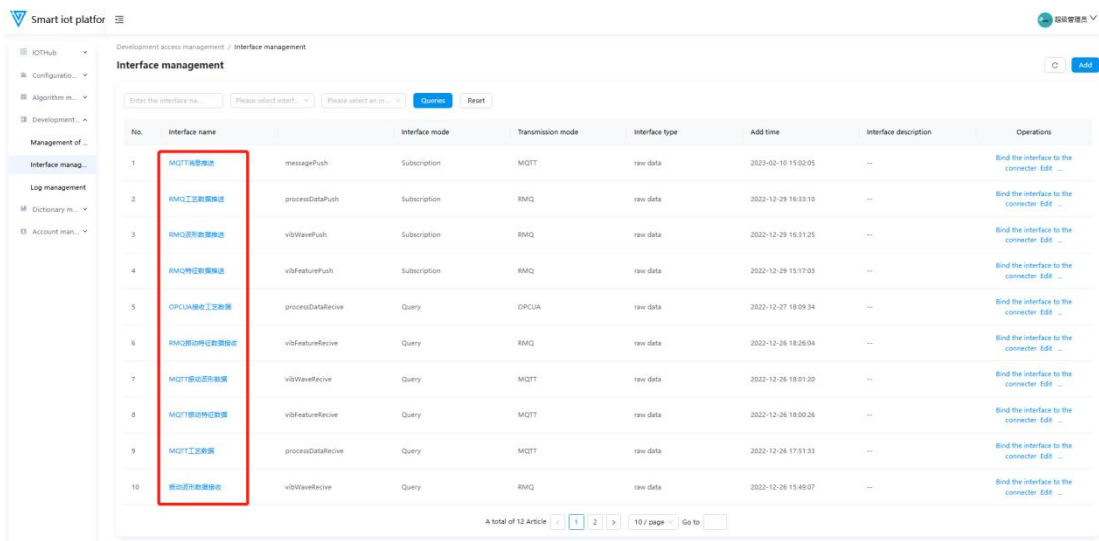
Newly added interfaces are enabled by default. Click the "Disable" button to toggle the status. Only interfaces in the disabled state can be deleted.





Interface Details

Click on the interface name to navigate to the interface details page, which displays the interface information and integration partner information.



3.6.3 Log Management

Functional Overview

The Log Management module primarily displays message reception and data push logs of integration partners. Log queries can be performed based on integration partner name, interface name, call result, and call time.

Smart iot platfor

Development access management / Log management

Log management

Enter the name of the... Enter the interface na... Select the result of... Start date End date Query Reset

Message id	Name of the connecting party	Interface name	Interface mode	Transmission mode	Call result	Task time	Call time
9121e5e4-a4a3-4e11-b0b3-86999218e1a0	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful	0s	2024-08-16 22:23:03
d161ba2-4fb1-4348-b168-f6f0f51c1ac	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful	0s	2024-08-16 22:13:03
e1951c7-6314-420f-baa4-94a7952a54fb	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful	0s	2024-08-16 22:05:02
4fec7e4-559e-4a6b-a0a3-4234a5478067	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful	0s	2024-08-16 21:53:02
d2814264-6820-4028-a8a2-506ba556869e	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful	0s	2024-08-16 21:51:03
ba69c732-cf69-452a-bac9-3602de139884	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful	21s	2024-08-16 21:37:03
f416a5b8-a663-4a4b-8bae-5fa304bc6502	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful	0s	2024-08-16 21:23:01
c403b66-f39b-4857-9707-f6b6a7fa986	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful	0s	2024-08-16 21:13:03
3a9f758c-f125-4baf-aef9-bc0302de9911	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful	0s	2024-08-16 21:03:00
b66e1d3f-4a6b-4ac3-acb3-a0f691347297	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful	0s	2024-08-16 20:42:59

A total of 10 Article 1 2 3 4 5 10 / page Go to

Viewing Details

Click on the message ID of a log entry to view the detailed information of the message.

Smart iot platfor

Development access management / Log management

Log management

Enter the name of the... Enter the interface na... Select the result of... Start date End date Query Reset

Message id	Name of the connecting party	Interface name	Interface mode	Transmission mode	Call result
9121e5e4-a4a3-4e11-b0b3-86999218e1a0	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful
e161ba2-4fb1-4348-b168-f6f0f51c1ac	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful
e1951c7-6314-420f-baa4-94a7952a54fb	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful
4fec7e4-559e-4a6b-a0a3-4234a5478067	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful
d2814264-6820-4028-a8a2-506ba556869e	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful
ba69c732-cf69-452a-bac9-3602de139884	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful
f416a5b8-a663-4a4b-8bae-5fa304bc6502	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful
c403b66-f39b-4857-9707-f6b6a7fa986	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful
3a9f758c-f125-4baf-aef9-bc0302de9911	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful
b66e1d3f-4a6b-4ac3-acb3-a0f691347297	江河和万冠隆	消息推送	Subscription	RMQ	Have been successful

A total of 10 Article 1 2 3 4 5 10 / page Go to

Message details

Basic information

Message id: 9121e5e4-a4a3-4e11-b0b3-86999218e1a0
The connecting party: 江河和万冠隆
Interface name: 消息推送
Interface mode: Subscription
Transmission mode: RMQ

Mission information

0 s
Call time: 2024-08-16 22:23:03
Request parameter: request.json
Call log:

3.7Dictionary Management

3.7.1Bearing Management

Functional Overview

The Bearing Management module primarily supports operations such as adding, editing, and deleting bearings.

Smart IoT platform

Dictionary management / Bearing Management

Bearing Management

Please enter manufact... Please enter bearing... Please enter bear... Confirm Reset

Manufacturer	Product model number	Bearing type	Number of rollers	Inner ring failure frequency	Outer ring failure frequency	Rolling element failure frequency	Cage failure frequency	Add time	Operations
SKF	K-UM10484	Roller bearings	18	12.883	10.117	4.015	0.44	2021-09-23 01:59:51	Edit Delete
SKF	K-UM71094	Roller bearings	16	13.391	10.509	4.073	0.442	2021-09-23 01:59:51	Edit Delete
SKF	K-UM50684	Roller bearings	14	13.333	10.667	4.295	0.444	2021-09-23 01:59:51	Edit Delete
SKF	322447258J	Roller bearings	12	11.941	9.059	3.432	0.431	2021-09-23 01:59:51	Edit Delete
BAR	2110C	Roller bearings	24	13.882	10.108	2.779	0.421	2021-09-23 01:59:49	Edit Delete
BAR	2107H	Roller bearings	15	8.614	6.386	2.982	0.426	2021-09-23 01:59:49	Edit Delete
BAR	2112H	Roller bearings	18	10.171	7.829	3.424	0.435	2021-09-23 01:59:49	Edit Delete
BAR	2108H	Roller bearings	17	9.634	7.356	3.336	0.433	2021-09-23 01:59:49	Edit Delete
BAR	101H	Roller bearings	10	6.139	3.861	2.01	0.386	2021-09-23 01:59:49	Edit Delete
BAR	2109H	Roller bearings	16	9.151	6.849	3.084	0.428	2021-09-23 01:59:49	Edit Delete

A total of 10 Article 1 10 / page

Adding a Bearing

Click the "Add Bearing" button in the upper right corner of the page to open the bearing addition pop-up window. After filling in the relevant bearing information, click the "Confirm" button to successfully add the bearing.

Smart IoT platform

Dictionary management / Bearing Management

Bearing Management

Please enter manufact... Please enter bearing... Please enter bear... Confirm Reset

Manufacturer	Product model number	Bearing type	Number of rollers	Inner ring failure frequency	Outer ring failure frequency	Rolling element failure frequency	Cage failure frequency	Add time	Operations
SKF	K-UM10484	Roller bearings	18	12.883	10.117	4.015	0.44	2021-09-23 01:59:51	Edit Delete
SKF	K-UM71094	Roller bearings	16	13.391	10.509	4.073	0.442	2021-09-23 01:59:51	Edit Delete
SKF	K-UM50684	Roller bearings	14	13.333	10.667	4.295	0.444	2021-09-23 01:59:51	Edit Delete
SKF	322447258J	Roller bearings	12	11.941	9.059	3.432	0.431	2021-09-23 01:59:51	Edit Delete
BAR	2110C	Roller bearings	24	13.882	10.108	2.779	0.421	2021-09-23 01:59:49	Edit Delete
BAR	2107H	Roller bearings	15	8.614	6.386	2.982	0.426	2021-09-23 01:59:49	Edit Delete
BAR	2112H	Roller bearings	18	10.171	7.829	3.424	0.435	2021-09-23 01:59:49	Edit Delete
BAR	2108H	Roller bearings	17	9.634	7.356	3.336	0.433	2021-09-23 01:59:49	Edit Delete
BAR	101H	Roller bearings	10	6.139	3.861	2.01	0.386	2021-09-23 01:59:49	Edit Delete
BAR	2109H	Roller bearings	16	9.151	6.849	3.084	0.428	2021-09-23 01:59:49	Edit Delete

A total of 10 Article 1 10 / page

Add bearings

Manufacturer:

Bearing model:

Bearing type: ☒ Rolling bearings ☐ Plain bearings

Number of roller:

Inner ring failure:

Outer ring failure:

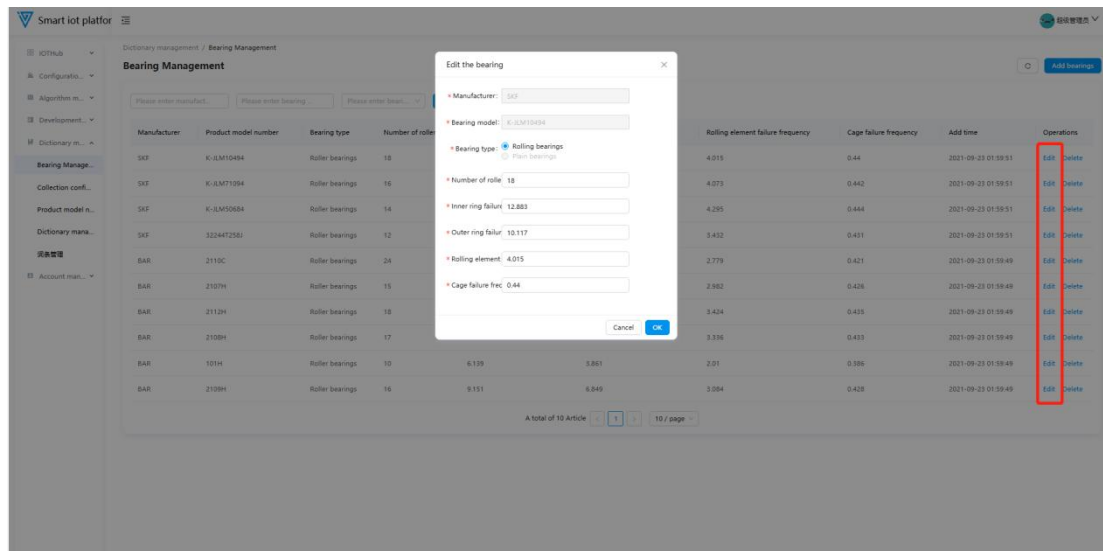
Rolling element:

Cage failure freq:

Cancel OK

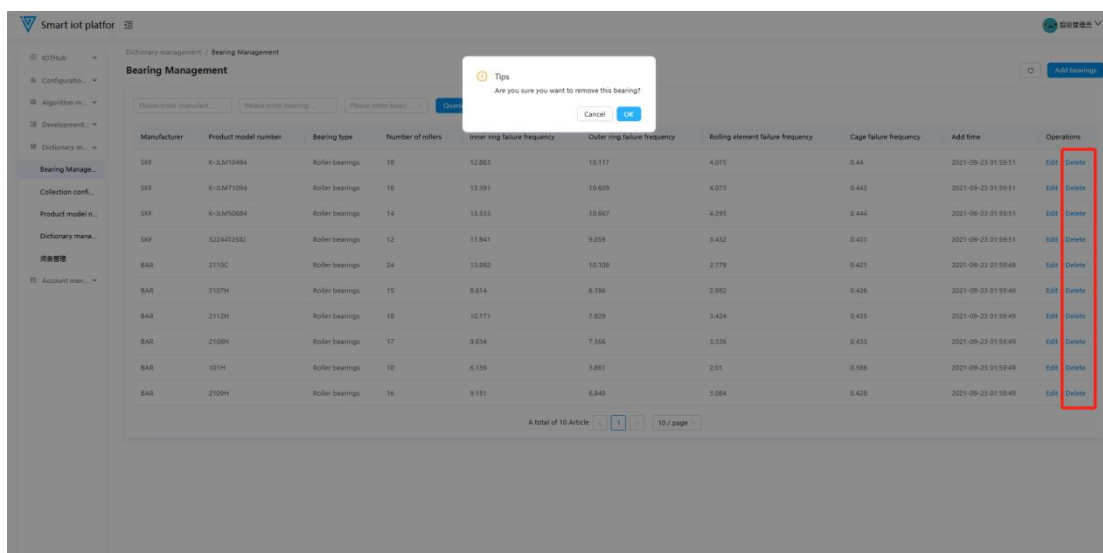
Editing a Bearing

Added bearings are displayed in the bearing list page of the Bearing Management module. Click the "Edit" button for a bearing to enter the editing pop-up window for the selected bearing. After updating the bearing information, click the "Confirm" button to complete the editing operation.



Deleting a Bearing

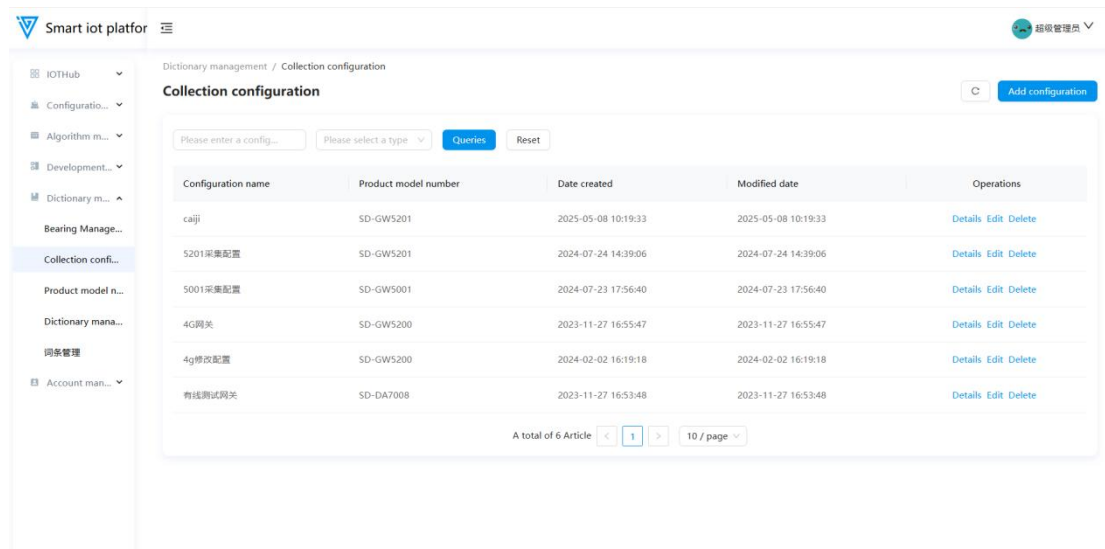
Click the "Delete" button on the bearing list page. After the confirmation pop-up appears, click the "Confirm" button to delete the bearing. Note: Bearings that are already in use cannot be deleted.



3.7.2 Acquisition Configuration

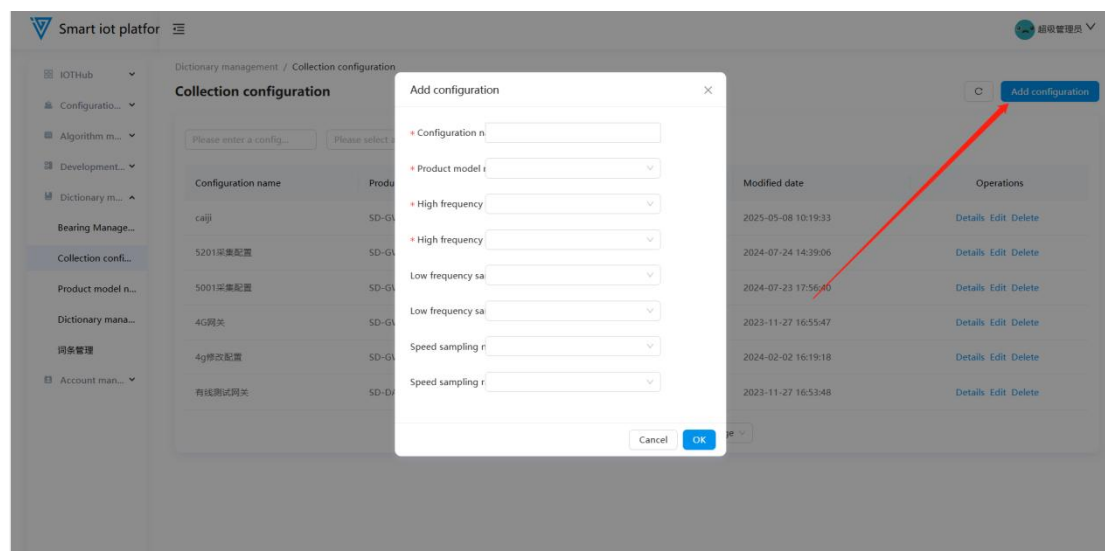
Functional Overview

The Acquisition Configuration module primarily supports operations such as adding, editing, and deleting acquisition configurations.



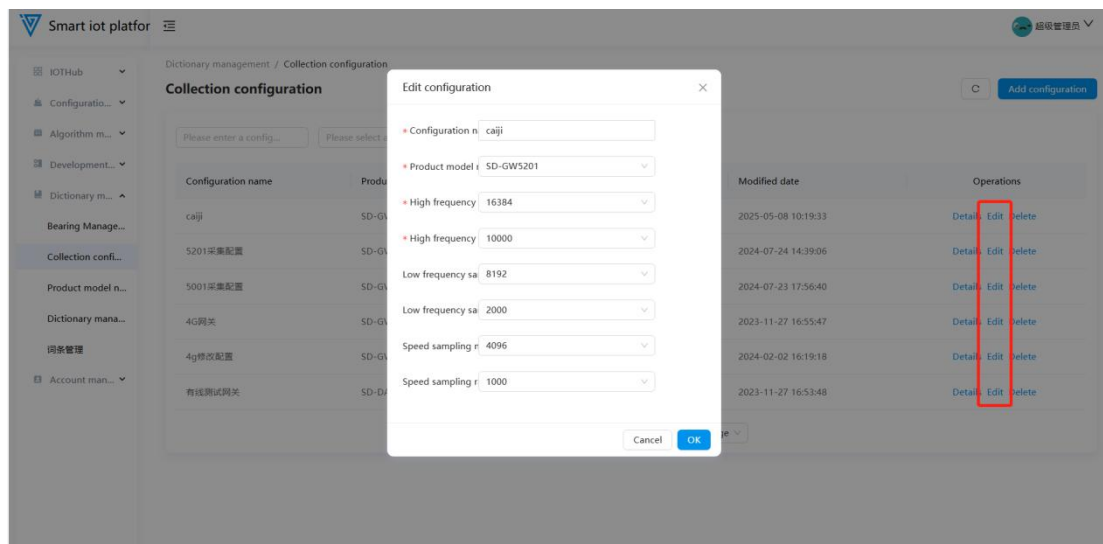
Adding an Acquisition Configuration

Click the "Add Configuration" button in the upper right corner of the page to enter the acquisition configuration addition pop-up window. After filling in the relevant information, click the "Confirm" button to complete the configuration addition.



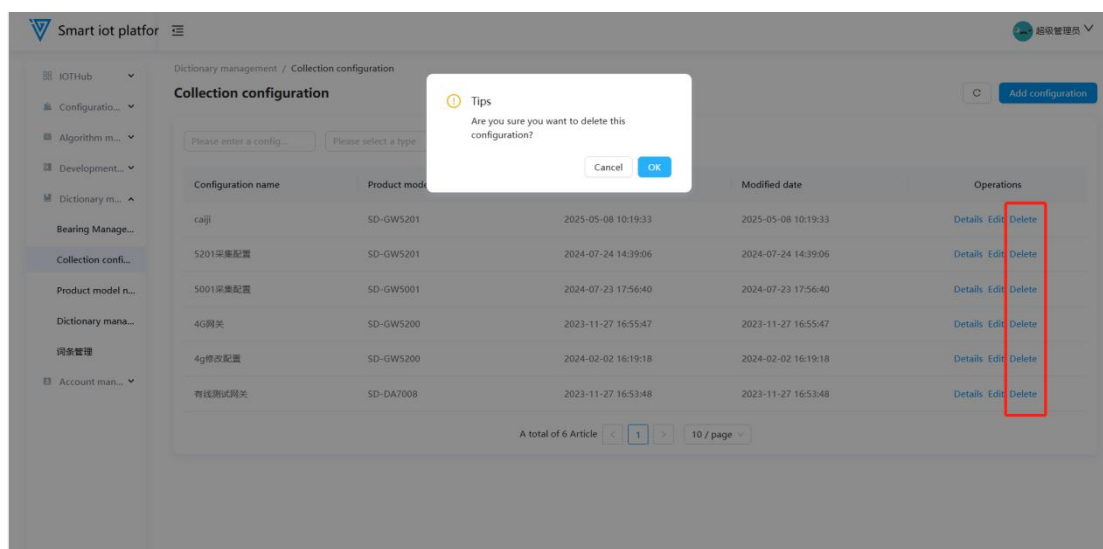
Editing an Acquisition Configuration

To update an existing acquisition configuration, click the "Edit" button on the page to enter the editing pop-up window. After making modifications, click the "Confirm" button to complete the editing operation.



Deleting an Acquisition Configuration

Acquisition configurations that are already in use cannot be deleted. Click the "Delete" button on the page, and after the confirmation pop-up appears, click "Confirm" to delete an unused acquisition configuration.



3.7.3 Product Models

Functional Overview

The Product Models module allows users to add, edit, and delete product models. Product models are primarily used for sensor addition, data acquisition gateway addition, and acquisition configuration addition.

Smart iot platfor

Dictionary management / Product model number

Product model number

Enter the product mo... Select Product Type Queries Reset

Product model number	Product type	Product subtype	Add time	Remarks	Operations
SD-GW5201	Data acquisition gateway	Aggregation gateway	2024-06-24 15:21:14	---	Edit Delete
SD-GW3000	IOT gateway	IOTgateway	2023-08-07 11:49:36	---	Edit Delete
SD-V3012-500	sensor	wired vibration sensor	2023-08-07 11:41:38	---	Edit Delete
SD-V7001	sensor	wired RPM sensor	2023-08-07 11:41:16	转速传感器	Edit Delete
SD-DA7016	Data acquisition gateway	Data acquisition	2023-08-07 11:37:00	---	Edit Delete
SD-V3207-4G	sensor	wireless vibration sensor	2023-07-26 16:06:34	4G传感器	Edit Delete
SD-V3607	sensor	wireless vibration sensor	2023-07-26 16:06:34	4G传感器	Edit Delete
SD-GW5001	Data acquisition gateway	Aggregation gateway	2023-07-25 13:37:07	---	Edit Delete
SD-DA7008	Data acquisition gateway	Data acquisition	2023-07-19 19:35:00	---	Edit Delete
SD-V3012-100	sensor	wired vibration sensor	2023-07-19 19:16:03	---	Edit Delete

Adding a Product Model

Navigate to the Product Models list page, click the "Add" button in the upper right corner to open the product model addition pop-up window. Fill in the product model, product type, product subtype, and product image. In the product attributes section, enter the number of channels, transmission method, and communication method. Click the "Confirm" button to successfully add the product model. The remarks field allows users to add custom notes. To add other attribute information to the product model, users can independently select product attribute information added in the dictionary.

Smart iot platfor

Dictionary management / Product model number

Product model number

Enter the product mo... Select Product Type

Add product model

Product model number

Product type

Product subtype

Product picture: Upload

Remarks:

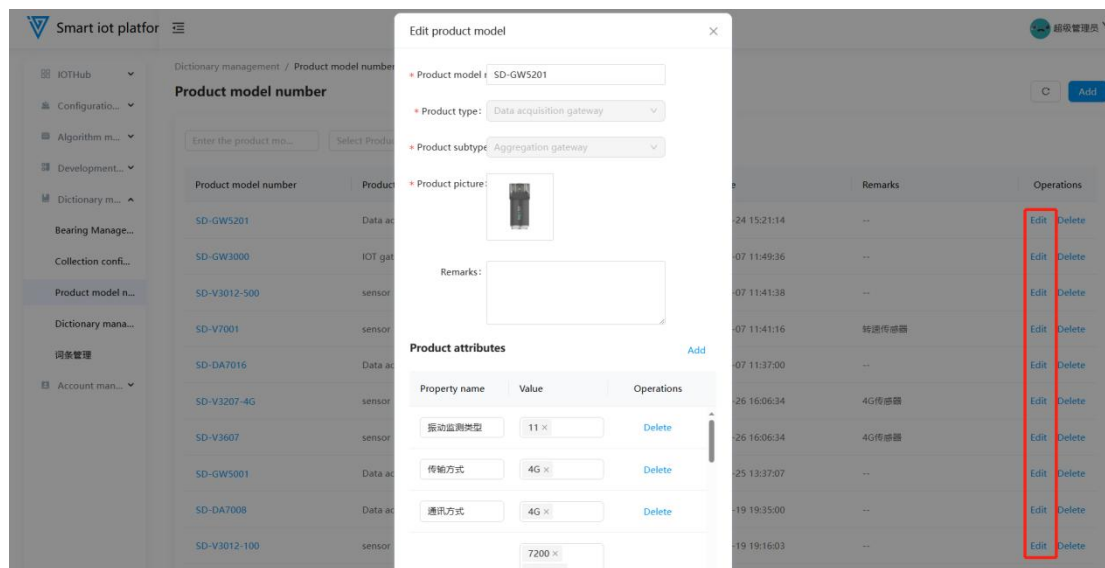
Product attributes

Property name	Value	Operations
No Data		

Cancel OK

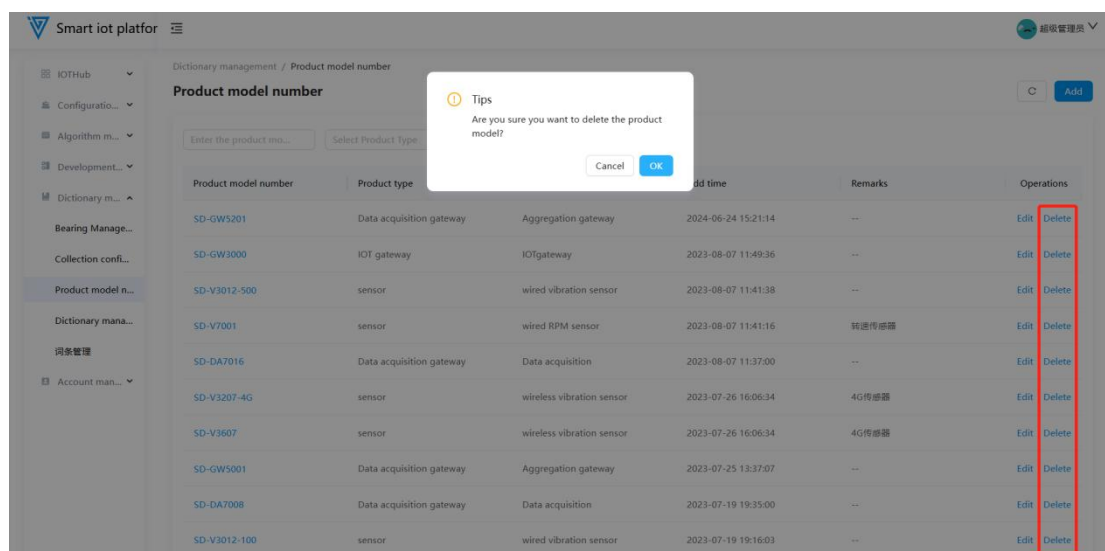
Editing a Product Model

Added product models are displayed on the product models list page in reverse chronological order of addition. Click the "Edit" button for the selected product model to enter the editing pop-up window. The product model, product type, and product subtype cannot be edited; other information can be updated.



Deleting a Product Model

Product models that are already in use cannot be deleted. Only unused product models can be deleted.



Product Model Details

Click on the product model name in the list page to navigate to the product model details page, which displays basic information, attribute information, and acquisition configuration information of the product model.

Smart iot platfor

超级管理员

IOTHub

Configuration...

Algorithm m...

Development...

Dictionary m...

Bearing Manage...

Collection confi...

Product model n...

Dictionary mana...

词典管理

Account man...

Dictionary management / Product model number

Product model number

Enter the product mo...

Select Product type

Queries

Reset

Product model number	Product type	Product subtype	Add time	Remarks	Operations
SD-GW5201	Data acquisition gateway	Aggregation gateway	2024-06-24 15:21:14	--	Edit Delete
SD-GW3000	IOT gateway	IOTgateway	2023-08-07 11:49:36	--	Edit Delete
SD-V3012-500	sensor	wired vibration sensor	2023-08-07 11:41:38	--	Edit Delete
SD-V7001	sensor	wired RPM sensor	2023-08-07 11:41:16	转速传感器	Edit Delete
SD-DA7016	Data acquisition gateway	Data acquisition	2023-08-07 11:37:00	--	Edit Delete
SD-V3207-4G	sensor	wireless vibration sensor	2023-07-26 16:06:34	4G传感器	Edit Delete
SD-V3607	sensor	wireless vibration sensor	2023-07-26 16:06:34	4G传感器	Edit Delete
SD-GW5001	Data acquisition gateway	Aggregation gateway	2023-07-25 13:37:07	--	Edit Delete
SD-DA7008	Data acquisition gateway	Data acquisition	2023-07-19 19:35:00	--	Edit Delete
SD-V3012-100	sensor	wired vibration sensor	2023-07-19 19:16:03	--	Edit Delete

Smart iot platfor

超级管理员

IOTHub

Configuration...

Algorithm m...

Development...

Dictionary m...

Bearing Manage...

Collection confi...

Product model n...

Dictionary mana...

词典管理

Account man...

Dictionary management / Product model number / 产品型号详情

← 产品型号详情

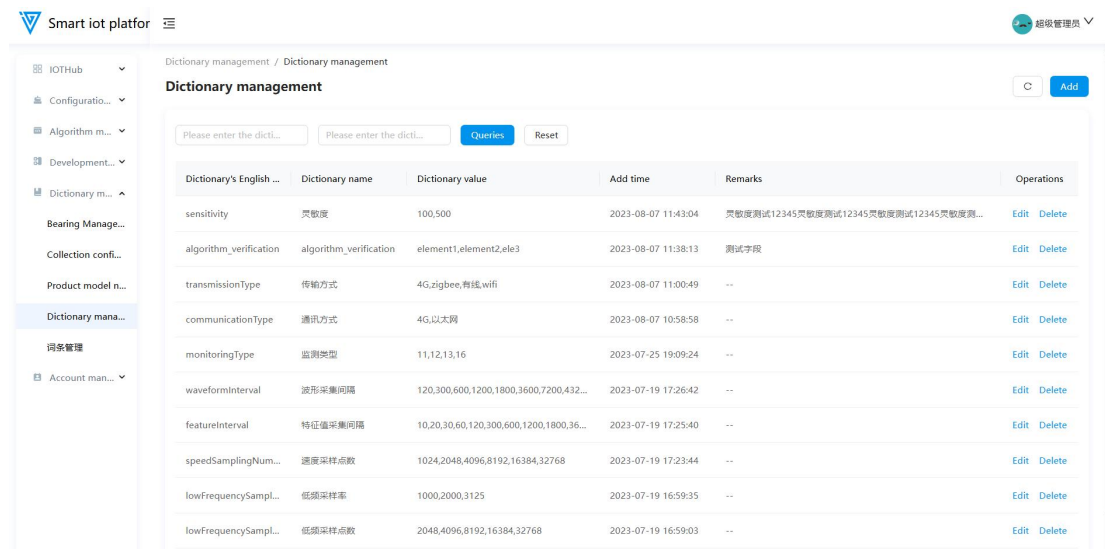
Product model number	Product type	Product subtype	Add time
SD-GW5201	Data acquisition gateway	wired vibration sensor	2024-06-24 15:21:14
Remarks			
--			

振动监测类型	传输方式	通讯方式	波形采集间隔
11	4G	4G	7200,14400,21600,43200,86400
特征值采集间隔	高频采样点数	高频采样率	低频采样点数
600,1200,1800,3600,7200	8192,16384	5000,10000	2048,4096,8192
低频采样率	速度采样点数	速度采样率	
1000,2000	1024,2048,4096	500,1000,2000	

3.7.4Dictionary Management

Functional Overview

The Dictionary Management module primarily allows users to independently edit and add product model attribute information and other attribute information. It mainly supports editing and deleting dictionary entries.



Smart IoT Platform

Dictionary management / Dictionary management

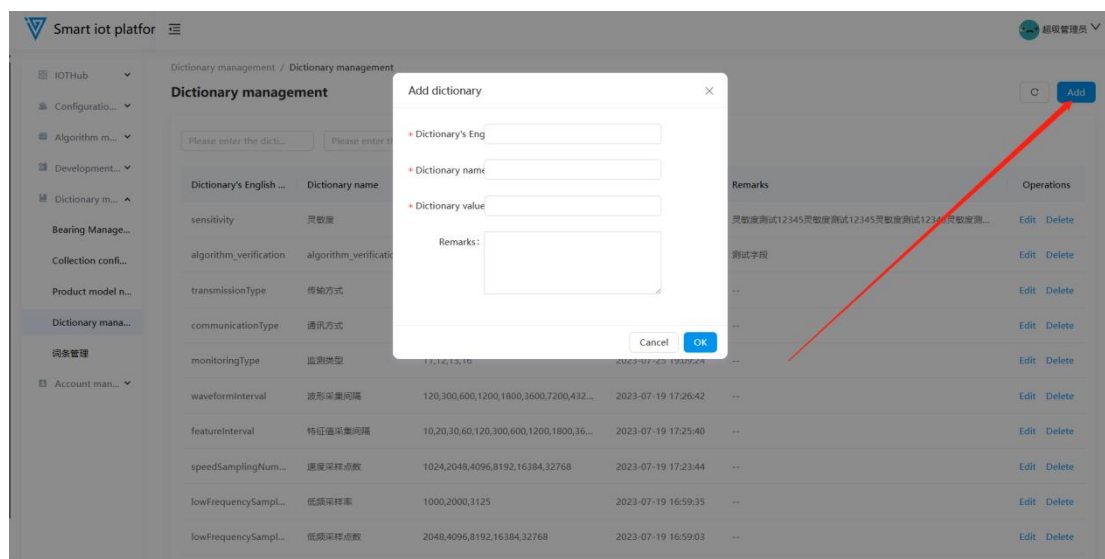
Dictionary management

Please enter the dicti... Please enter the dicti... Queries Reset

Dictionary's English ...	Dictionary name	Dictionary value	Add time	Remarks	Operations
sensitivity	灵敏度	100,500	2023-08-07 11:43:04	灵敏度测试12345灵敏度测试12345灵敏度测试12345灵敏度测试12345	Edit Delete
algorithm_verification	algorithm_verification	element1,element2,ele3	2023-08-07 11:38:13	测试字段	Edit Delete
transmissionType	传输方式	4G,zigbee,有线,wifi	2023-08-07 11:00:49	--	Edit Delete
communicationType	通讯方式	4G,以太网	2023-08-07 10:58:58	--	Edit Delete
monitoringType	监测类型	11,12,13,16	2023-07-25 19:09:24	--	Edit Delete
waveformInterval	波形采集间隔	120,300,600,1200,1800,3600,7200,432...	2023-07-19 17:26:42	--	Edit Delete
featureInterval	特征值采集间隔	10,20,30,60,120,300,600,1200,1800,36...	2023-07-19 17:25:40	--	Edit Delete
speedSamplingNum...	速度采样点数	1024,2048,4096,8192,16384,32768	2023-07-19 17:23:44	--	Edit Delete
lowFrequencySampl...	低频采样率	1000,2000,3125	2023-07-19 16:59:35	--	Edit Delete
lowFrequencySampl...	低频采样点数	2048,4096,8192,16384,32768	2023-07-19 16:59:03	--	Edit Delete

Adding Dictionary Entries

Dictionary addition refers to system-built dictionary information and cannot be performed on the page.



Smart IoT Platform

Dictionary management / Dictionary management

Dictionary management

Please enter the dicti... Please enter the dicti... Queries Reset

Add dictionary

Dictionary's Eng

Dictionary name

Dictionary value

Remarks

Cancel OK

Dictionary's English ...	Dictionary name	Dictionary value	Add time	Remarks	Operations
sensitivity	灵敏度	100,500	2023-08-07 11:43:04	灵敏度测试12345灵敏度测试12345灵敏度测试12345灵敏度测试12345	Edit Delete
algorithm_verification	algorithm_verification	element1,element2,ele3	2023-08-07 11:38:13	测试字段	Edit Delete
transmissionType	传输方式	4G,zigbee,有线,wifi	2023-08-07 11:00:49	--	Edit Delete
communicationType	通讯方式	4G,以太网	2023-08-07 10:58:58	--	Edit Delete
monitoringType	监测类型	11,12,13,16	2023-07-25 19:09:24	--	Edit Delete
waveformInterval	波形采集间隔	120,300,600,1200,1800,3600,7200,432...	2023-07-19 17:26:42	--	Edit Delete
featureInterval	特征值采集间隔	10,20,30,60,120,300,600,1200,1800,36...	2023-07-19 17:25:40	--	Edit Delete
speedSamplingNum...	速度采样点数	1024,2048,4096,8192,16384,32768	2023-07-19 17:23:44	--	Edit Delete
lowFrequencySampl...	低频采样率	1000,2000,3125	2023-07-19 16:59:35	--	Edit Delete
lowFrequencySampl...	低频采样点数	2048,4096,8192,16384,32768	2023-07-19 16:59:03	--	Edit Delete

Editing Dictionary Entries

Added dictionary entries are displayed on the dictionary management list page in reverse chronological order of addition. Click the "Edit" button for the selected dictionary entry to enter the editing pop-up window. The English name of the dictionary entry cannot be edited; other information can be updated.

Smart iot platfor

Account management / User management

User management

Login account: User name: Department: Role: [Queries](#) [Reset](#) [Add a user](#)

No.	User name	Login account	Contact number	Department	Role	Account status	Date created	Operations
1	袁绍学	yuanshaoxue@sinseggye.com.cn	19912349683	新世界	管理员3	Enable	2023-07-24	Edit More
2	王健斌	admin	18535977844	新世界	管理员3	Enable	2022-09-29	Edit More
3	超级管理员	1	18866688888	新世界	--	Enable	2021-08-30	Edit More
4	alex	yevseyev@sinseggye.ru	18703318179	Sinseggye Moscow	Test	Enable	2025-03-14	Edit More
5	李昊庭	lihaoting@sinseggye.com.cn	15000000000	新世界	--	Deactivate	2023-02-06	Edit More
6	qihui	310410062@qq.com	13344556677	测试	管理员3	Deactivate	2023-12-15	Edit More
7	宋红波	songhongbo@sinseggye.com.cn	15720075218	新世界	--	Enable	2023-04-28	Edit More
8	马朝青	machaoqing@sinseggye.com.cn	18511366266	新世界	--	Enable	2021-10-28	Edit More
9	唐大伟	tu_dawei@163.com	18001329632	新世界	--	Enable	2021-10-28	Edit More

A total of 9 Article [1](#) 10 / page

Adding a User

Click the "Add User" button in the upper right corner of the page to open the user addition pop-up window. Fill in the required information and click the "Confirm" button to complete the user addition process.

Smart iot platfor

Account management / User management

User management

Login account: [Add a user](#)

Role: [Queries](#) [Reset](#)

Add a user

* User name:

* Login account:

* Contact number:

* Department:

* Role:

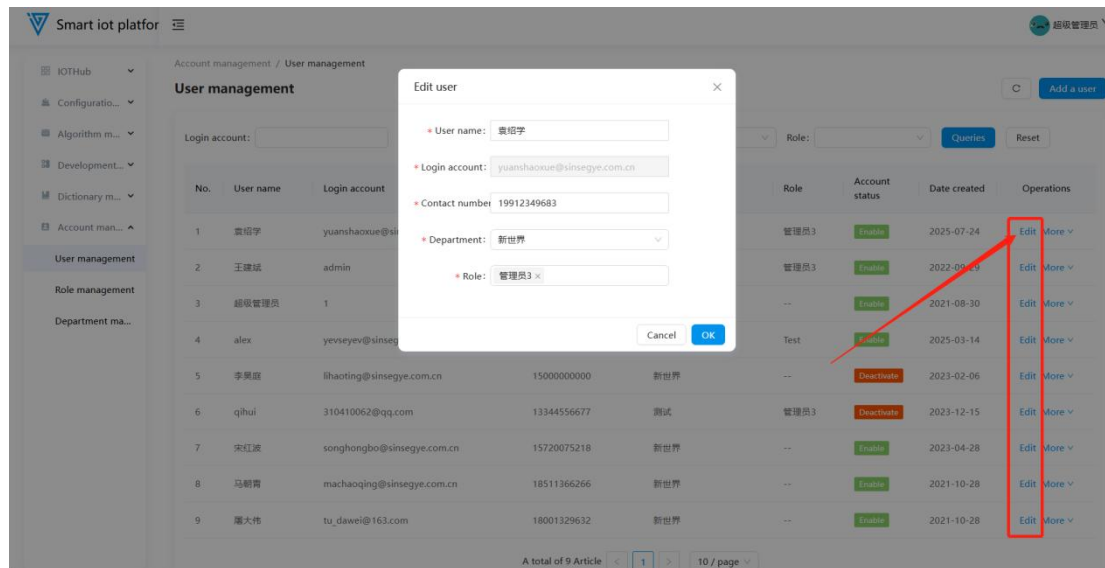
[Cancel](#) [OK](#)

No.	User name	Login account	Contact number	Department	Role	Account status	Date created	Operations
1	袁绍学	yuanshaoxue@sinseggye.com.cn	19912349683	新世界	管理员3	Enable	2023-07-24	Edit More
2	王健斌	admin	18535977844	新世界	管理员3	Enable	2022-09-29	Edit More
3	超级管理员	1	18866688888	新世界	--	Enable	2021-08-30	Edit More
4	alex	yevseyev@sinseggye.ru	18703318179	Sinseggye Moscow	Test	Enable	2025-03-14	Edit More
5	李昊庭	lihaoting@sinseggye.com.cn	15000000000	新世界	--	Deactivate	2023-02-06	Edit More
6	qihui	310410062@qq.com	13344556677	测试	管理员3	Deactivate	2023-12-15	Edit More
7	宋红波	songhongbo@sinseggye.com.cn	15720075218	新世界	--	Enable	2023-04-28	Edit More
8	马朝青	machaoqing@sinseggye.com.cn	18511366266	新世界	--	Enable	2021-10-28	Edit More
9	唐大伟	tu_dawei@163.com	18001329632	新世界	--	Enable	2021-10-28	Edit More

A total of 9 Article [1](#) 10 / page

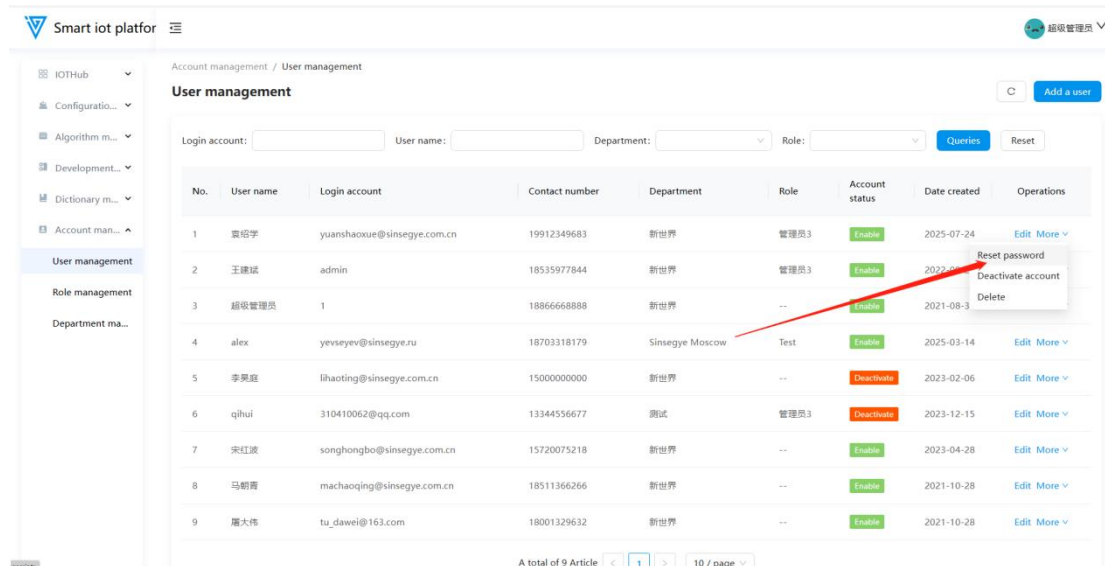
Editing a User

To update a user's name, contact number, department, or role, click the "Edit" button on the page to enter the editing pop-up window. After updating the relevant information, click the "Confirm" button to save the changes.



Resetting a Password

If a user forgets their password, the administrator can reset it. Hover over the "More" button on the page and click "Reset Password."



Disabling an Account

Accounts that are enabled can be disabled. Once disabled, the account will no longer have access to the platform.

Smart IoT platform

Account management / User management

User management

Login account: User name: Department: Role: Queries Reset

No.	User name	Login account	Contact number	Department	Role	Account status	Date created	Operations
1	袁绍学	yuanshaoxue@sinseggye.com.cn	19912349683	新世界	管理员3	Enable	2025-07-24	Edit More
2	王建设	admin	18535977844	新世界	管理员3	Enable	2022-09-29	Edit More
3	超级管理员	1	18866668888	新世界	--	Enable	2021-08-30	Edit More
4	alex	yevseyev@sinseggye.ru	18703318179	Sinseggye Moscow	Test	Enable	2025-03-14	Edit More
5	李昊庭	lihaoting@sinseggye.com.cn	15000000000	新世界	--	Deactivate	2023-02-06	Edit More
6	qihui	310410062@qq.com	13344556677	测试	管理员3	Deactivate	2023-12-15	Edit More
7	宋红波	songhongbo@sinseggye.com.cn	15720075218	新世界	--	Enable	2023-04-28	Edit More
8	马朝青	machaoqing@sinseggye.com.cn	18511366266	新世界	--	Enable	2021-10-28	Edit More
9	屠大伟	tu_dawei@163.com	18001329632	新世界	--	Enable	2021-10-28	Edit More

A total of 9 Article < 1 > 10 / page

Enabling an Account

Disabled accounts can be re-enabled. Once enabled, the account's access rights are restored.

Smart IoT platform

Account management / User management

User management

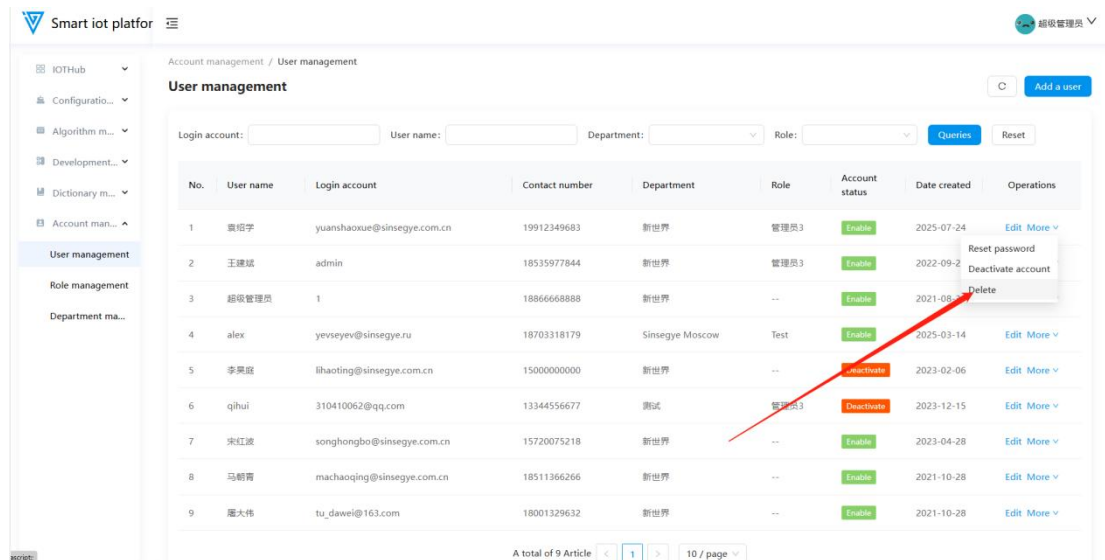
Login account: User name: Department: Role: Queries Reset

No.	User name	Login account	Contact number	Department	Role	Account status	Date created	Operations
1	袁绍学	yuanshaoxue@sinseggye.com.cn	19912349683	新世界	管理员3	Enable	2025-07-24	Edit More
2	王建设	admin	18535977844	新世界	管理员3	Enable	2022-09-29	Edit More
3	超级管理员	1	18866668888	新世界	--	Enable	2021-08-30	Edit More
4	alex	yevseyev@sinseggye.ru	18703318179	Sinseggye Moscow	Test	Enable	2025-03-14	Edit More
5	李昊庭	lihaoting@sinseggye.com.cn	15000000000	新世界	--	Deactivate	2023-02-06	Edit More
6	qihui	310410062@qq.com	13344556677	测试	管理员3	Deactivate	2023-12-15	Edit More
7	宋红波	songhongbo@sinseggye.com.cn	15720075218	新世界	--	Enable	2023-04-28	Edit More
8	马朝青	machaoqing@sinseggye.com.cn	18511366266	新世界	--	Enable	2021-10-28	Edit More
9	屠大伟	tu_dawei@163.com	18001329632	新世界	--	Enable	2021-10-28	Edit More

A total of 9 Article < 1 > 10 / page

Deleting an Account

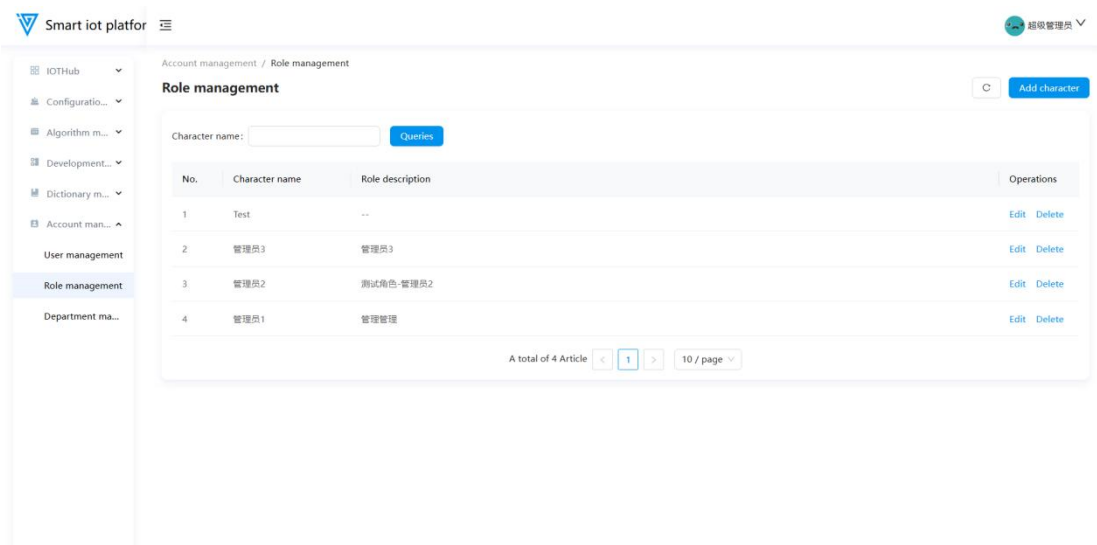
To delete a user, hover over the "More" button and click "Delete." After the confirmation pop-up appears, click "Confirm" to complete the deletion.



3.8.2 Role Management

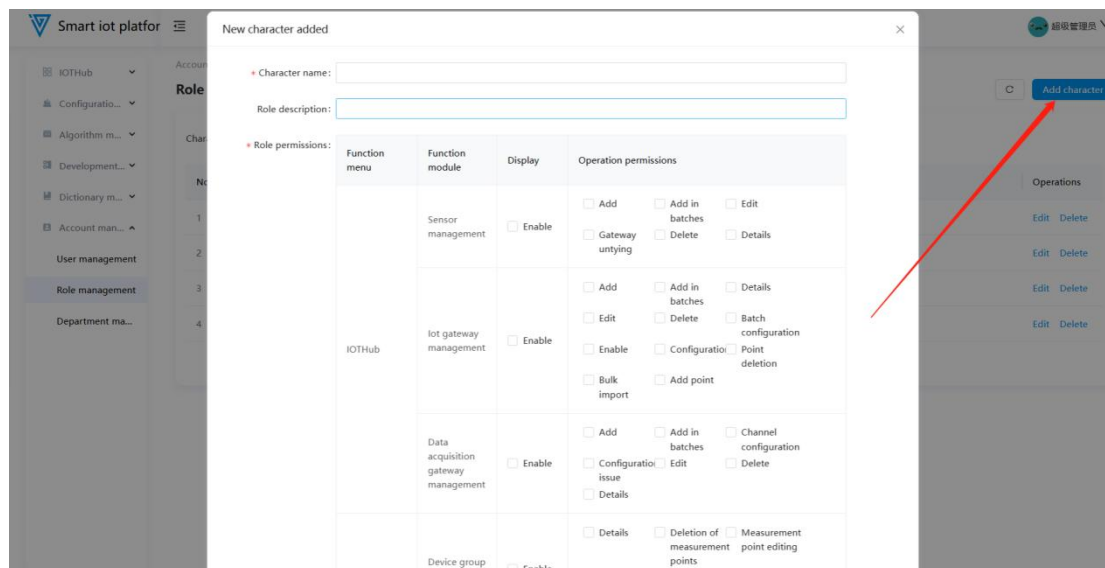
Functional Overview

The Role Management module supports adding, editing, and deleting roles. Roles determine the scope of permissions for users assigned to them.



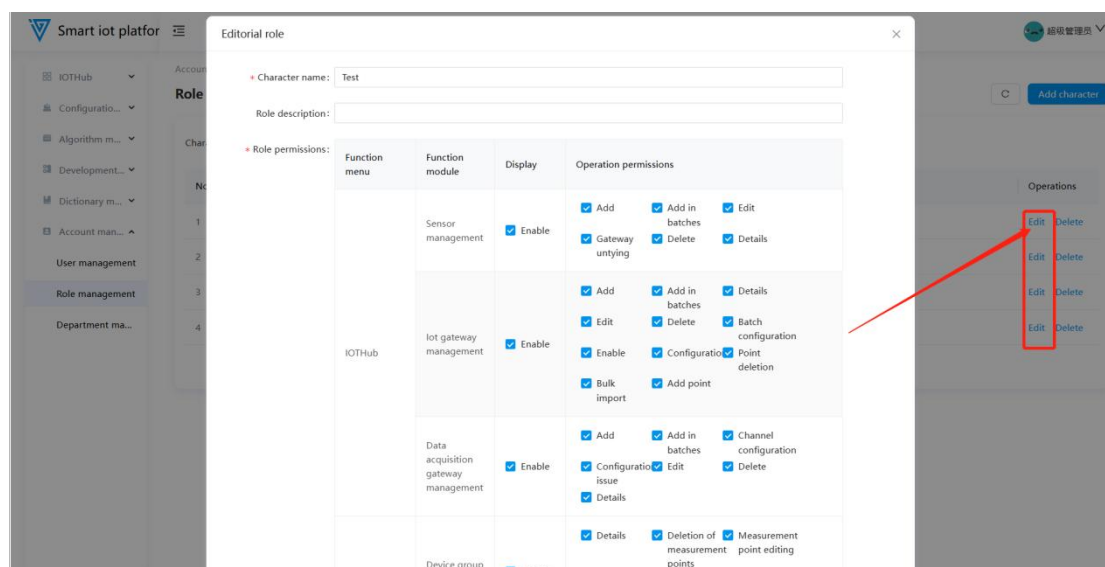
Adding a Role

Click the "Add Role" button in the upper right corner of the page to open the role addition pop-up window. Enter the role name, select the corresponding permissions, and click "Confirm" to complete the role addition.



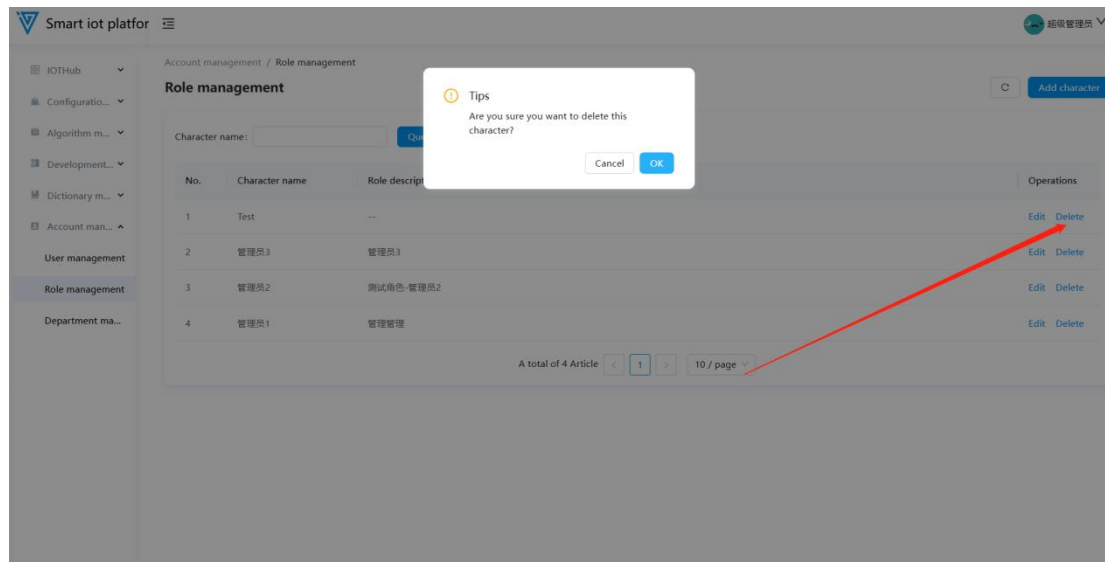
Editing a Role

To modify role permissions, click the "Edit" button on the page to enter the role editing pop-up window. After updating the permissions, click "Confirm" to save the changes.



Deleting a Role

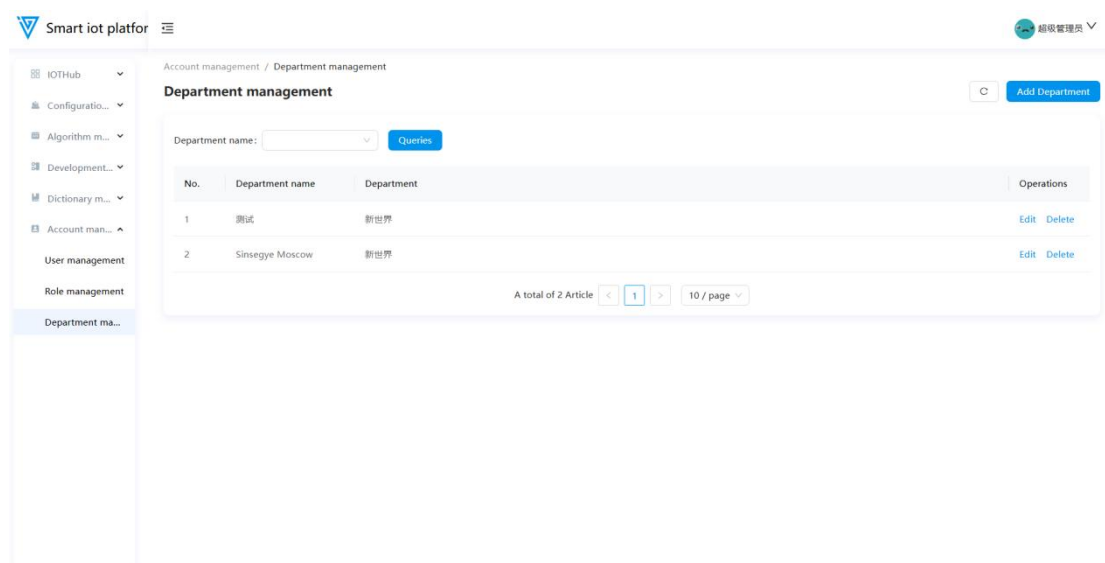
To delete an unnecessary role, click the "Delete" button on the page. After the confirmation pop-up appears, click "Confirm" to complete the deletion. Note: Roles that are already in use cannot be deleted.



3.8.3 Department Management

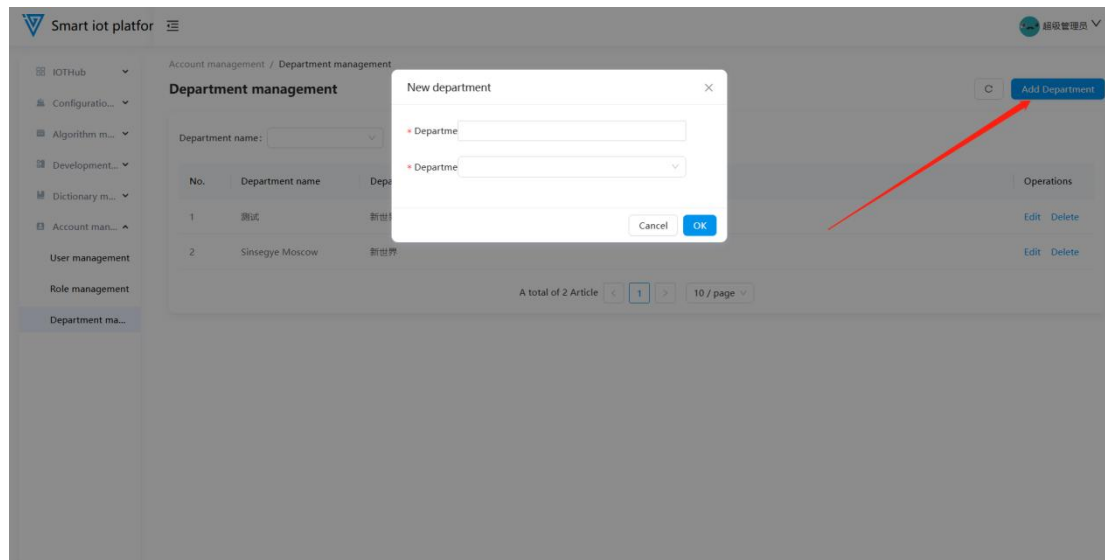
Functional Overview

The Department Management module supports adding, editing, and deleting departments.



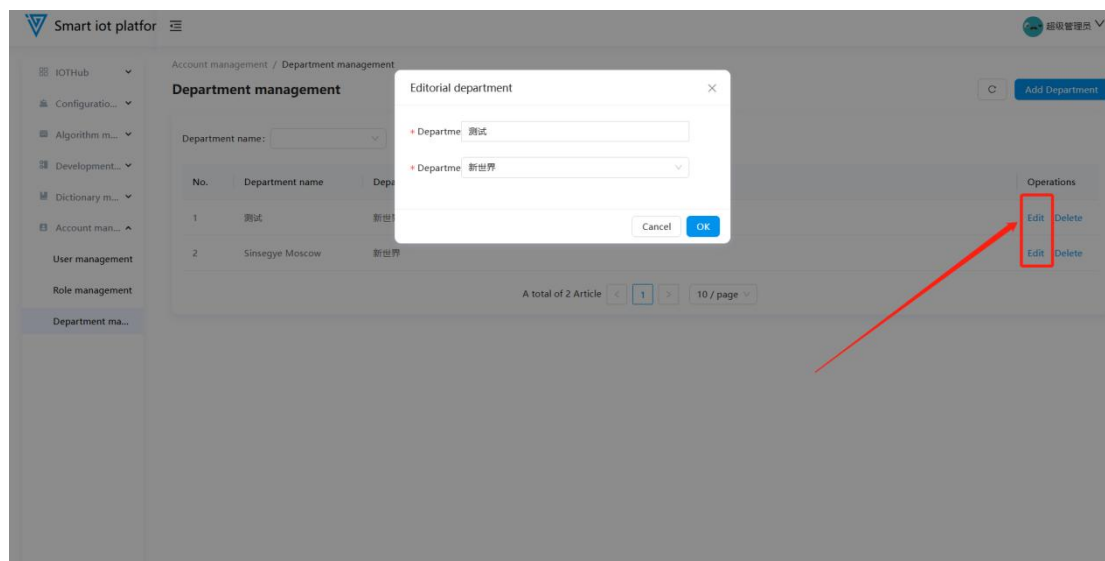
Adding a Department

Click the "Add Department" button in the upper right corner of the page to open the department addition pop-up window. Enter the department name and select the parent department (if applicable), then click "Confirm" to complete the addition.



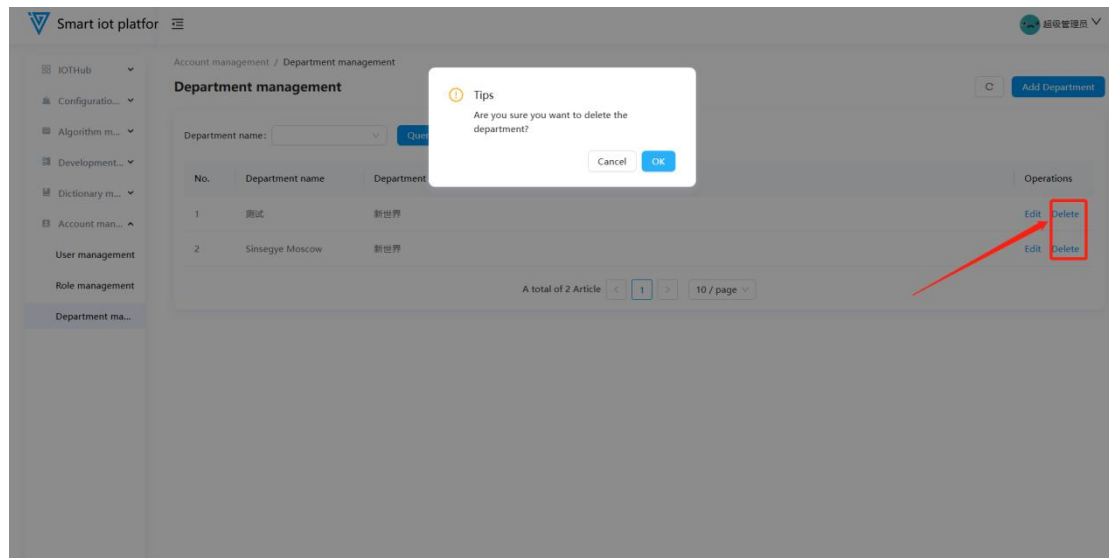
Editing a Department

Click the "Edit" button in the operation column to enter the department editing pop-up window. After updating the department information, click "Confirm" to save the changes.



Deleting a Department

Click the "Delete" button on the page. After the confirmation pop-up appears, click "Confirm" to delete the department. Note: Departments with associated users cannot be deleted.



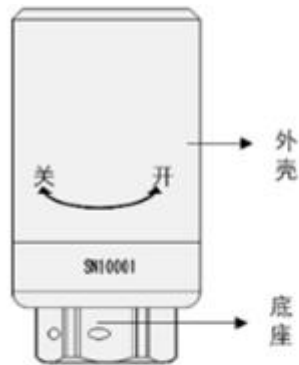
III.IOT Matrix device

Instaguard - Device Intelligent Monitoring and Diagnostic System is an industrial digital and intelligent monitoring management tool that integrates monitoring, diagnostics, and management. It achieves comprehensive data integration through multi-dimensional data access to IoT Hub, utilizes AI intelligent prediction and precise fault localization through pre-trained large models and the Metafacture of the industrial knowledge graph, and ultimately provides data fusion and presentation to customer systems and the Instaguard front-end display system through various data protocols via Fastkit.

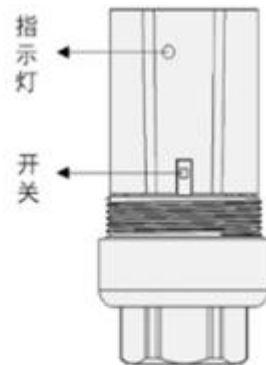
Instaguard's IOT matrix is the hardware cornerstone for intelligent monitoring of industrial equipment, integrating various types of industrial-grade IoT devices to achieve multi-dimensional real-time data collection. These devices connect to the IOTHub through standardized protocols, providing underlying data support for AI analysis by Metafacture and application presentation by FastKit, helping customers fully understand equipment status, promptly detect anomalies, and strengthen the hardware foundation for industrial digital monitoring.

1.Installation of Machine Condition Monitoring and Diagnostic Instrument(SD-V3207)

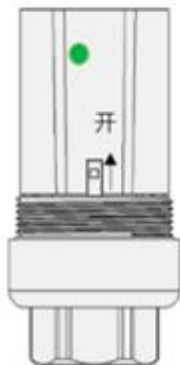
1.1Indicator Instructions



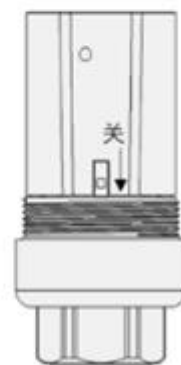
逆时针旋转外壳打开,
顺时针旋转外壳锁紧



外壳打开可见指示灯与
开关



上推开关为开机



下推开关为关机

State	Explain
Booon slow flash 5 times (once 1s) -> Chang bright (2s) -> flash 7 times (once 500ms) -> flicker once-> out	Diagnostic instrument was connected to the gateway successfully (V 3207-zg)(Sensor first connected to this gateway)
Booon slow flash 5 times (1s once) -> Chang bright (2s) -> flicker once-> out	Diagnostic instrument was connected to the gateway successfully (V 3207-zg)(Sensors were previously connected to this gateway)
Booon slow flash 5 times (1s once) -> Chang bright (2s) -> flash 7 times (500ms once) -> out	The Diagnostics machine has failed to connect to the gateway (ZigBee)

Booon slow flash 5 times (1s once) -> Chang bright (20s, sensor network process) -> flicker once-> out	The diagnostic instrument was successfully connected to the cloud platform(PDA)
Booon slow flash 5 times (1s once) -> Chang bright (20s, sensor injection process) -> out	The diagnostic failed to connect to the cloud platform(PDA)

1.2Installation Location

The intelligent wireless diagnostic instrument is generally arranged on the main bearing or main bearing seat of the pump equipment, and the machine cover, cover plate and other parts are not suitable for measuring points.

The corresponding installation position of each type is shown in the figure.

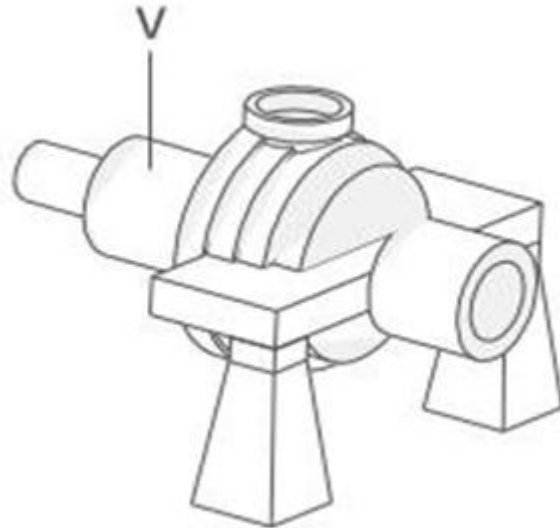
Suspension arm centrifugal pum

Quantity: 1~2

It must be installed in the vertical direction (V direction shown in the figure)

Near the drive end bearing position

If in case, install to both ends of the bearing case

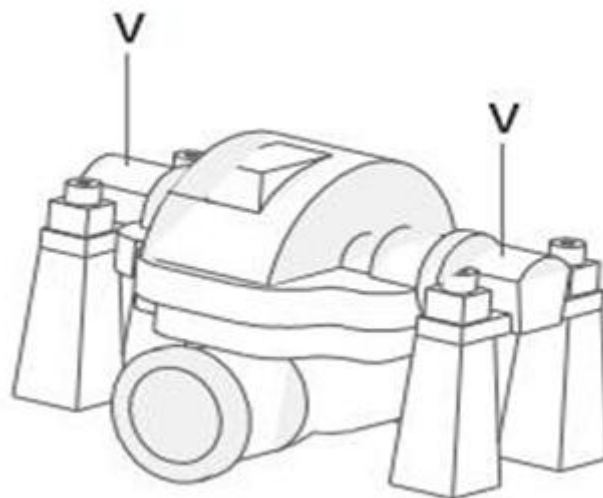


Support pump at both ends

Quantity: 2

Installation location is vertical (V direction shown in the figure)

One bearing position at each end

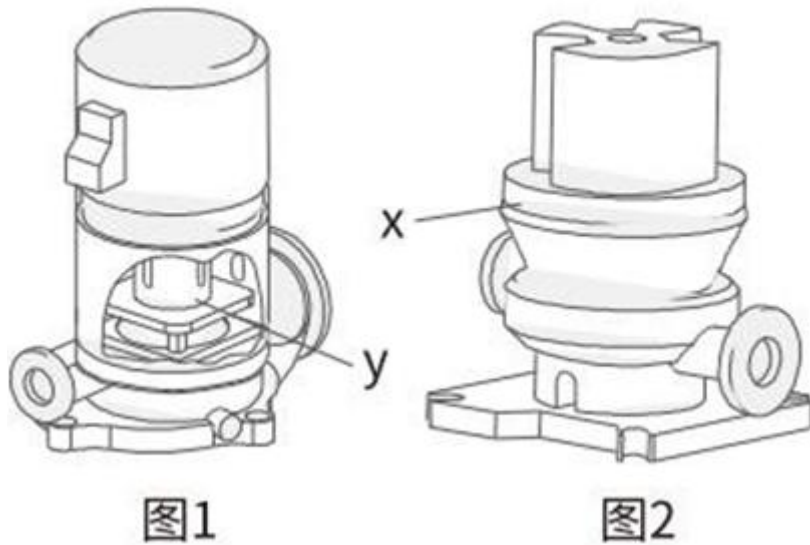


Vertical pipe pump

Quantity: 1

Pump type with bearing body structure is mounted to the shaft

Bearing position (Y direction shown in Figure 1)



Low voltage motor

Quantity: 2

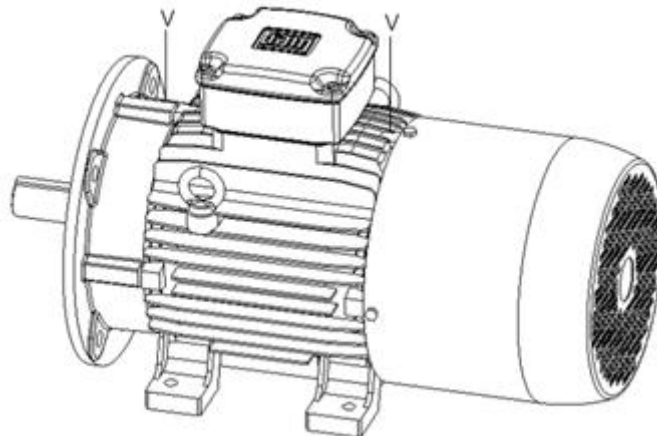
Installation location is vertical (V direction shown in the figure)

One bearing position at each end

Note: Dual terminals adopt the "main + secondary" working mode.

Optional 1 time is installed on the drive end

Installation method: stud installation



High voltage motor

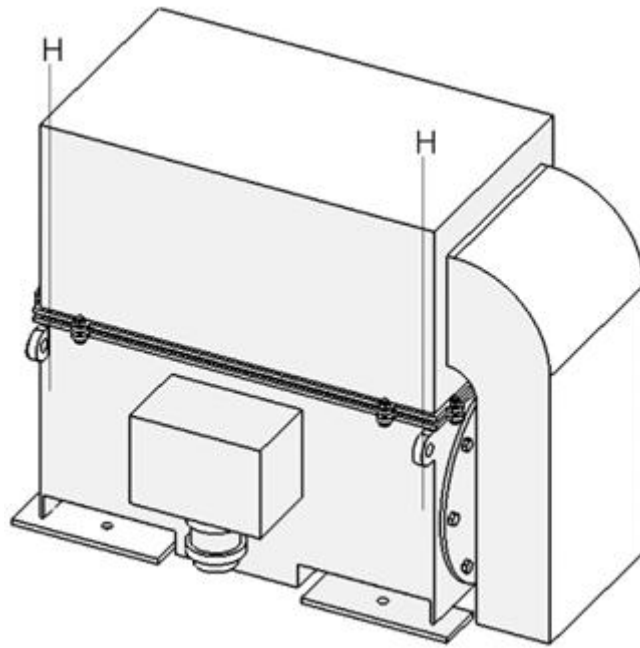
Quantity: 2

Installation location is horizontal (H direction shown in the figure)

One bearing position at each end

Note: Dual terminals adopt the "main + secondary" working mode.

It is recommended to be installed in "main + auxiliary" working mode.



High voltage motor

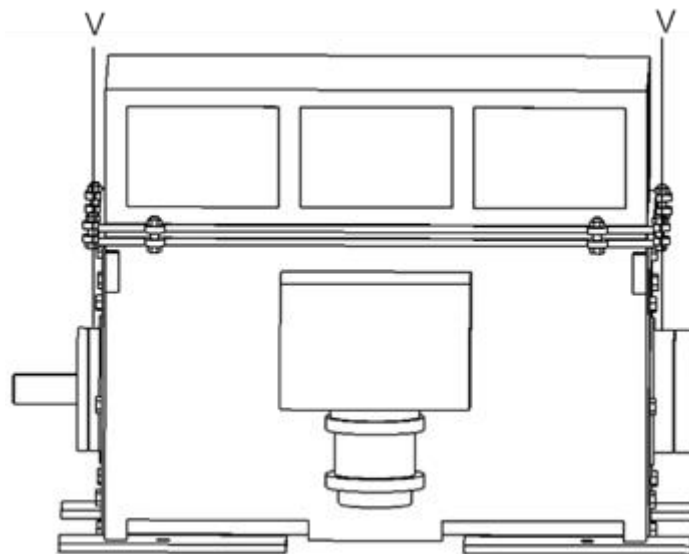
Quantity: 2

Installation location is vertical (V direction shown in the figure)

One bearing position at each end

Note: Dual terminals adopt the "main + secondary" working mode.

It is recommended to be installed in "main + auxiliary" working mode.

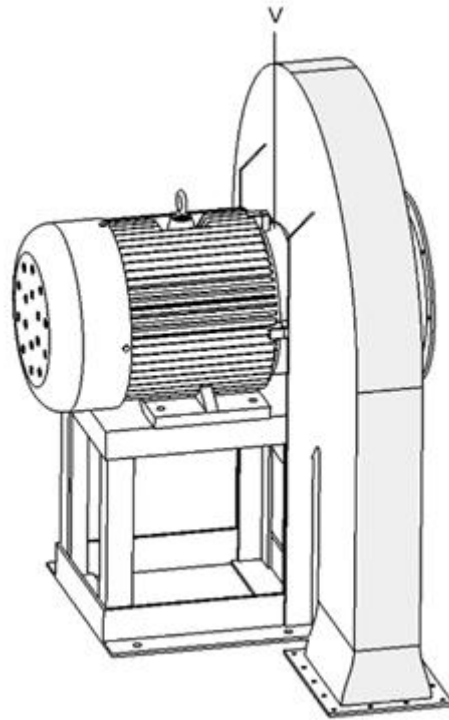


High pressure centrifugal fan

Quantity: 1

Installation location is vertical (V direction shown in the figure)

Near the drive end bearing position



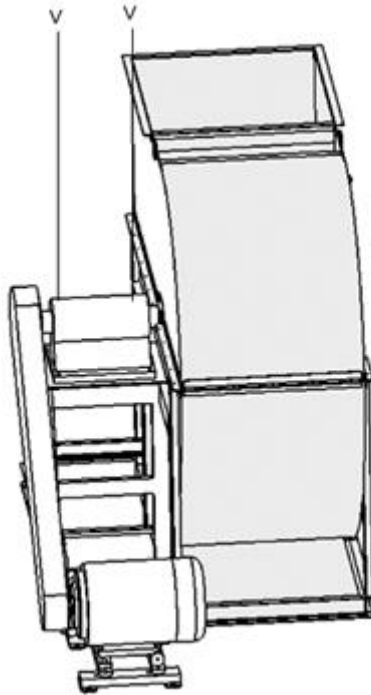
Induced draft fan

Quantity: 2

Installation location is vertical (V direction shown in the figure)

One bearing position at each end of the bearing seat

Note: Dual terminals adopt the "main + secondary" working mode.



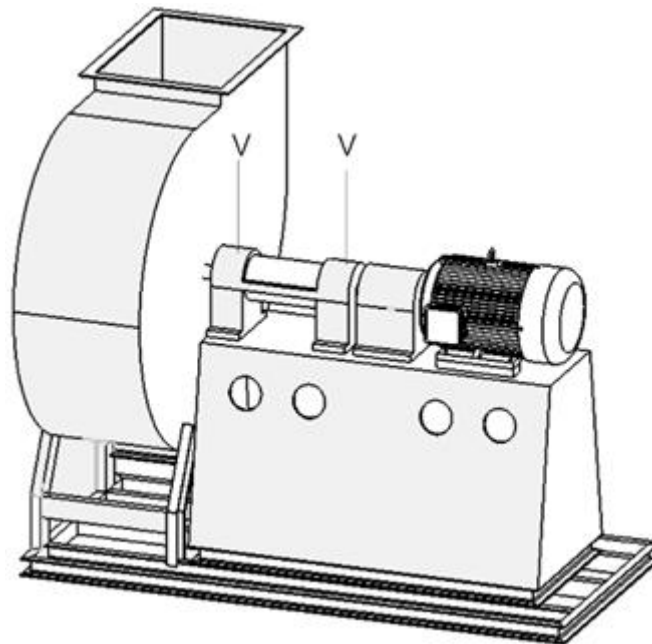
centrifugal blower

Quantity: 2

Installation location is vertical (V direction shown in the figure)

One bearing position at each end of the bearing seat

Note: Dual terminals adopt the "main + secondary" working mode.



Magnetic suction installation

Installation interface requirements: magnetic suction plane $\varnothing 23\text{mm}$

Installation accessories: $\varnothing 20 \times 8\text{mm}$ magnetic seat * 1



Adhesive installation

Installation interface requirements: adhesive plane \varnothing 23mm

Installation accessories: special metal glue * 1



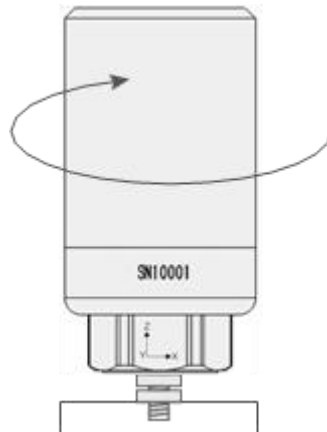
Note:

- In order to ensure the best installation stability and temperature monitoring accuracy, it is recommended to use stud installation.
- Strong magnets will demagnetify for a long time and high temperature. When the surface temperature of the equipment is higher than 55°C, it is recommended to use stud or adhesive installation.

1.3 Installation Steps

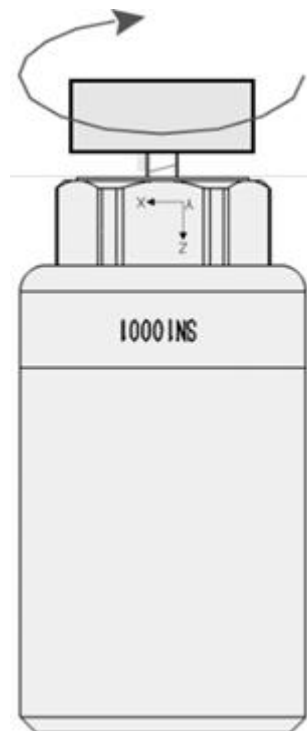
Bolt installation

Screw the product clockwise into the stud, to ensure that the sensor Z axis

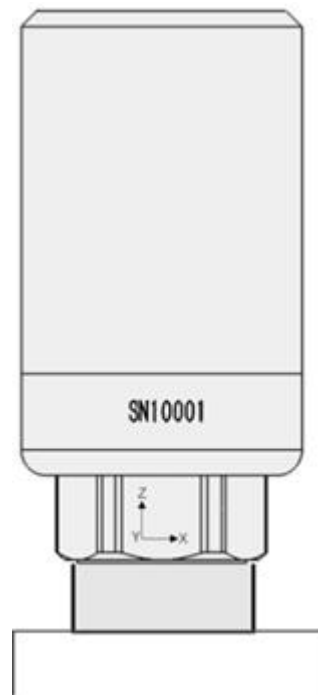


Magnetic suction installation

1. Tighten the magnetic seat clockwise to the product

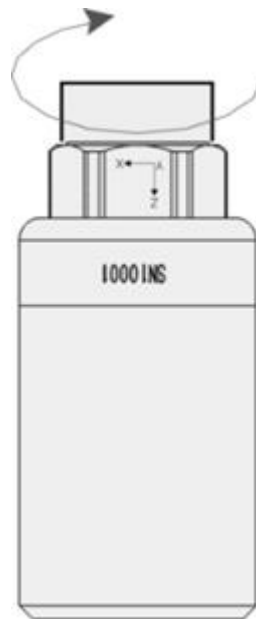


2. Adsorb the product to the equipment installation point to ensure that the sensor's Z-axis is perpendicular to the equipment axis and the X-axis is parallel to the equipment axis.

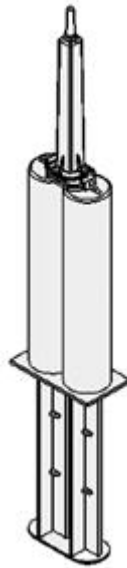


Adhesive installation

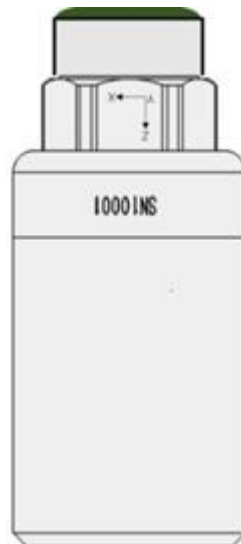
1. Tighten the magnetic seat clockwise to the product



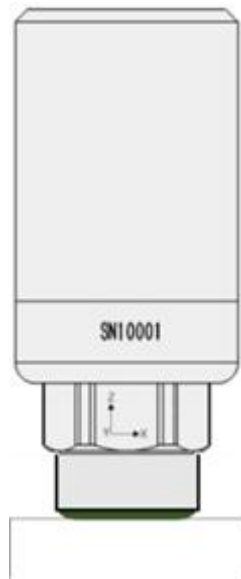
2. Assemble the special metal rubber gun and press the booster



3. Apply the glue evenly to the bottom surface of the magnetic base



4. Attach the sensor to the installation point of the equipment to ensure that the sensor Z axis direction is perpendicular to the equipment axis, and the X axis direction is parallel to the equipment axis



1.4 Installation direction

The height direction of intelligent wireless diagnostic instrument (such as the Z axis direction on the right) needs with the pump.

The equipment axis is vertical, and the Y-axis direction is parallel to the axis.

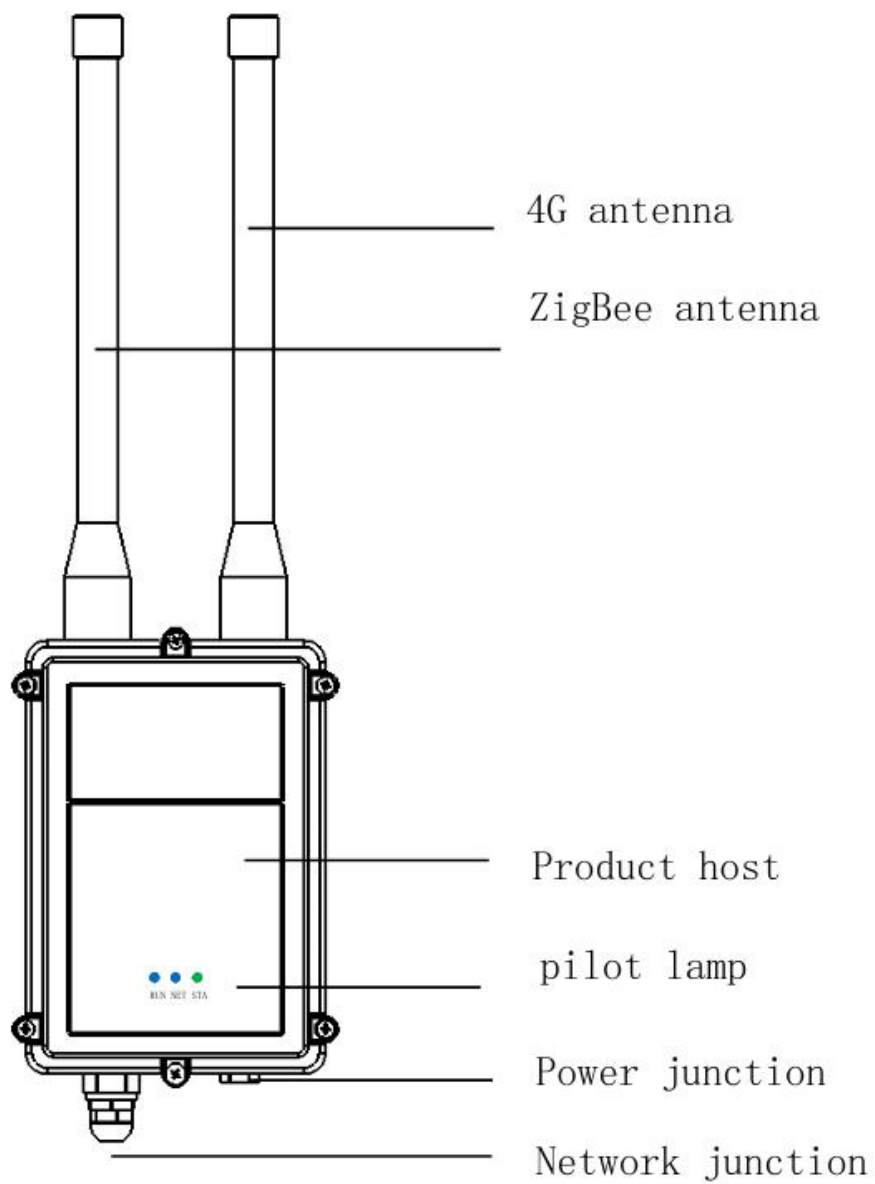
X: Horizontal Y: Axial Z: vertical (spindle)



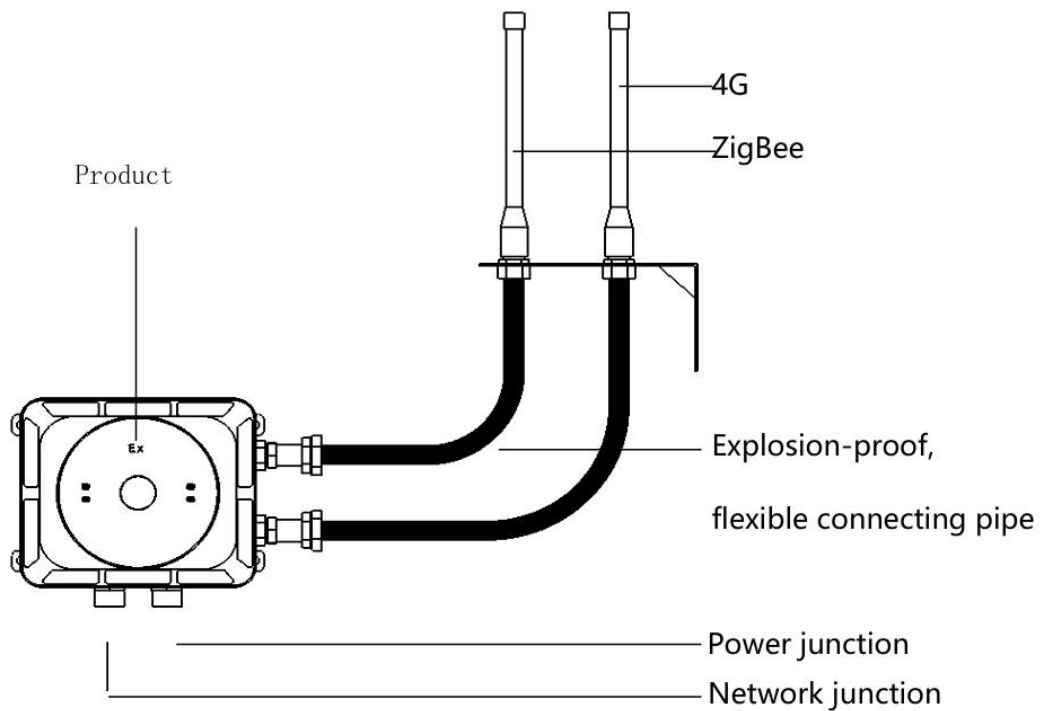
2. Installation of Intelligent Diagnostic data receiver (SD-GW5000)

2.1 Product appearance

SD-GW5001 (General Edition)



SD-GW5101 (explosion-proof version)



SD-GW5101 (explosion-proof version)

2.2 Indicator Instructions

RUN: move

NET: network

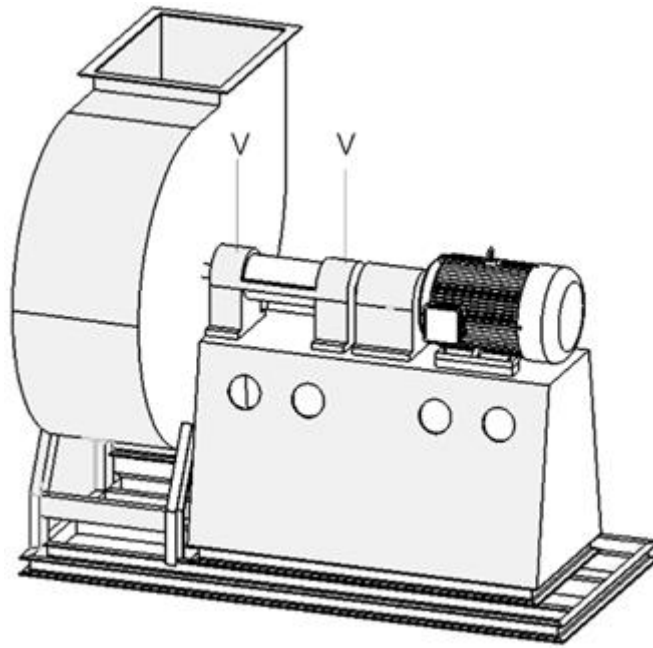
STA: state

(1) The gateway is powered on, the running light is flashing, the state light is always on, waiting for about 3s, and the network light is always on, indicating that the system is running normally;

(2) The gateway is powered on. When the system is running normally, wait for about 40s, the running light is always on, the network light is always on, and the state light is always on, indicating that the gateway enters the configuration mode;

(3) The gateway is powered on, when the system is running normally, wait for about 40s, the running light flashes, the network light flashes, and the state light is always on, indicating that the gateway connection service is normal;

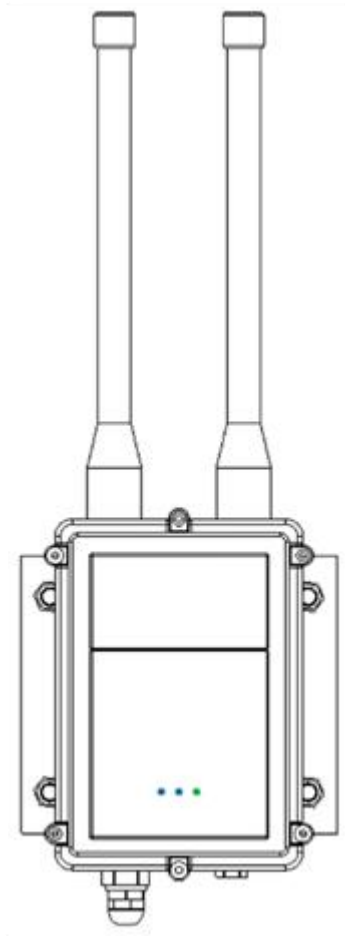
(4) Power on the gateway, when the system is running normally, wait for about 40s, the running light is flashing, the network light is always on, and the state light is always on, indicating that the gateway connection service fails;



SD-GW5001 (General Edition)

Wall-mounted installation:

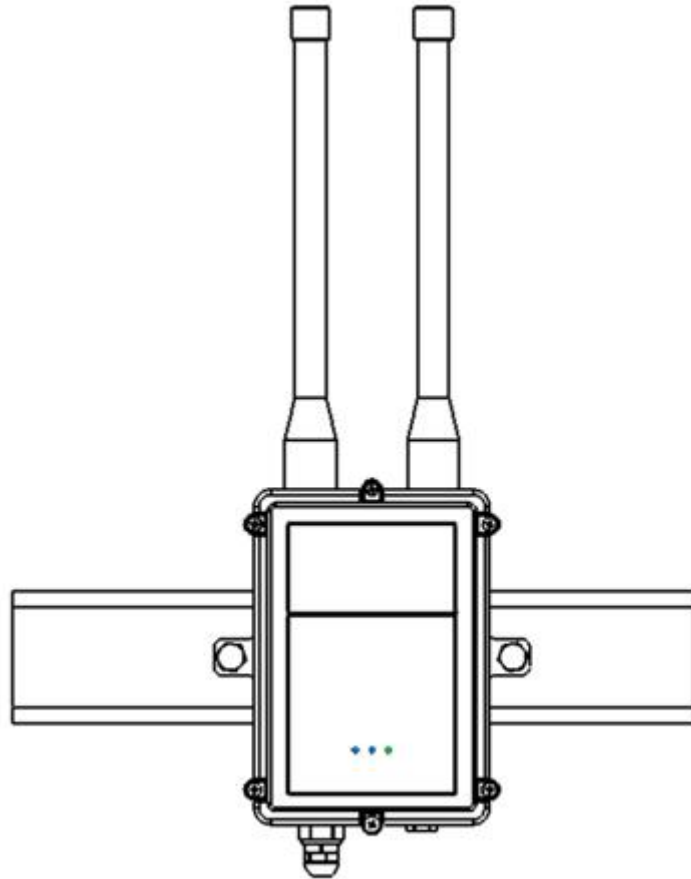
1. Use the connections to the smart gateway fixed.
2. Wall drilling (punching diameter to the used contact hole distance and expansion bolt diameter match) make connect the installed smart gateway with an expansion bolt fixed with the wall surface.



Trough-type steel-type installation:

Use the connections to the smart gateway fixed.

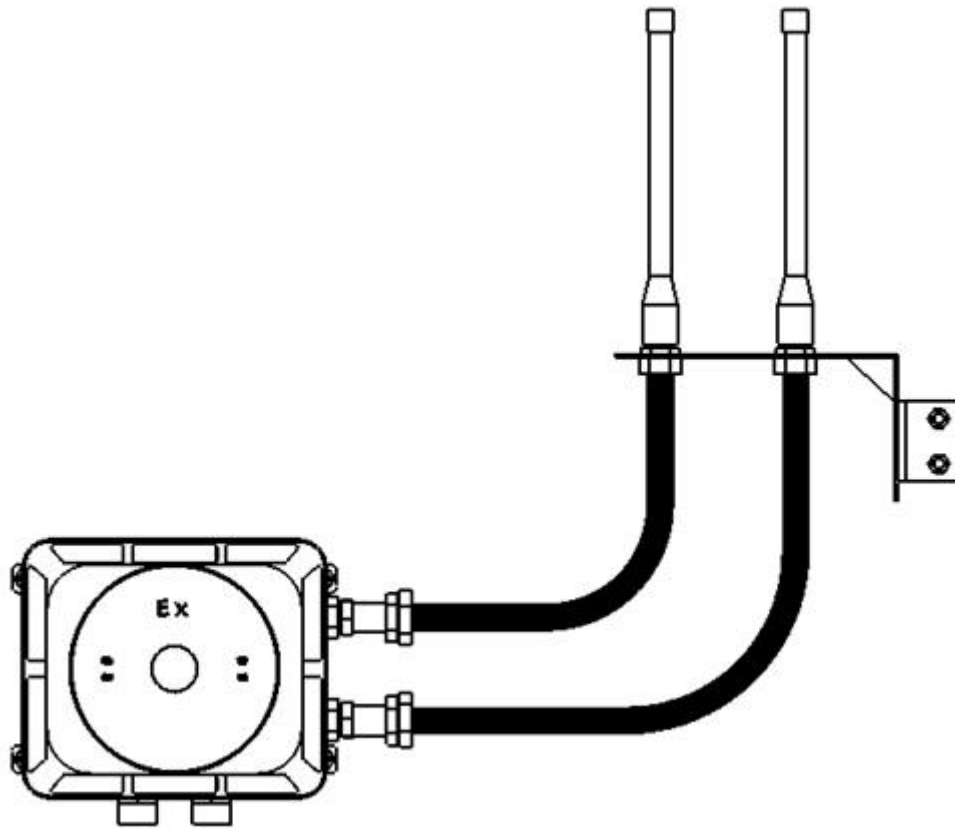
Site groove steel hole (hole size to be used connector hole size and hole spacing are the same) use screw the bolt will install the connection parts of the intelligent gateway with the site the trough steel is fixed.



SD-GW5101 (explosion-proof version)

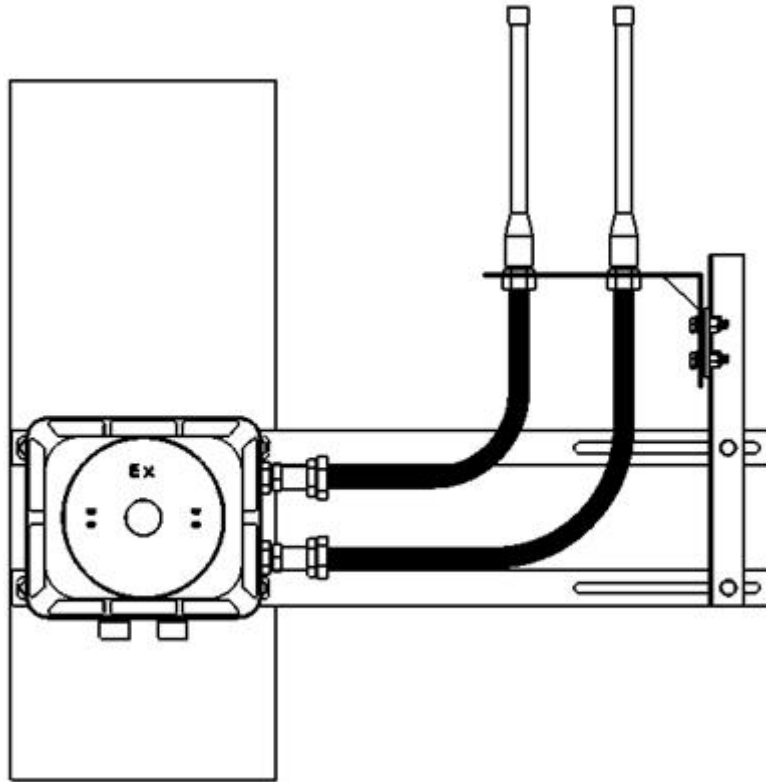
Wall-mounted installation:

1. Wall drilling (punching diameter and the day used hold distance of bracket support and diameter of expansion bolts match) Use expansion bolts to be an intelligent explosion-proof gateway fixed with the wall surface.
2. Attach the antenna support attachment with the expansion bolts good (the length of the expansion bolt is determined according to the site wall thickness) fixed the antenna support and the connections with the bolts.



Welding installation of prefabricated supports:

1. Select the position on the bearing pipe welded on the load-bearing column;
2. Use bolts to connect the intelligent gateway, prefabricated support A, the prefabricated bracket B can be assembled and fixed.



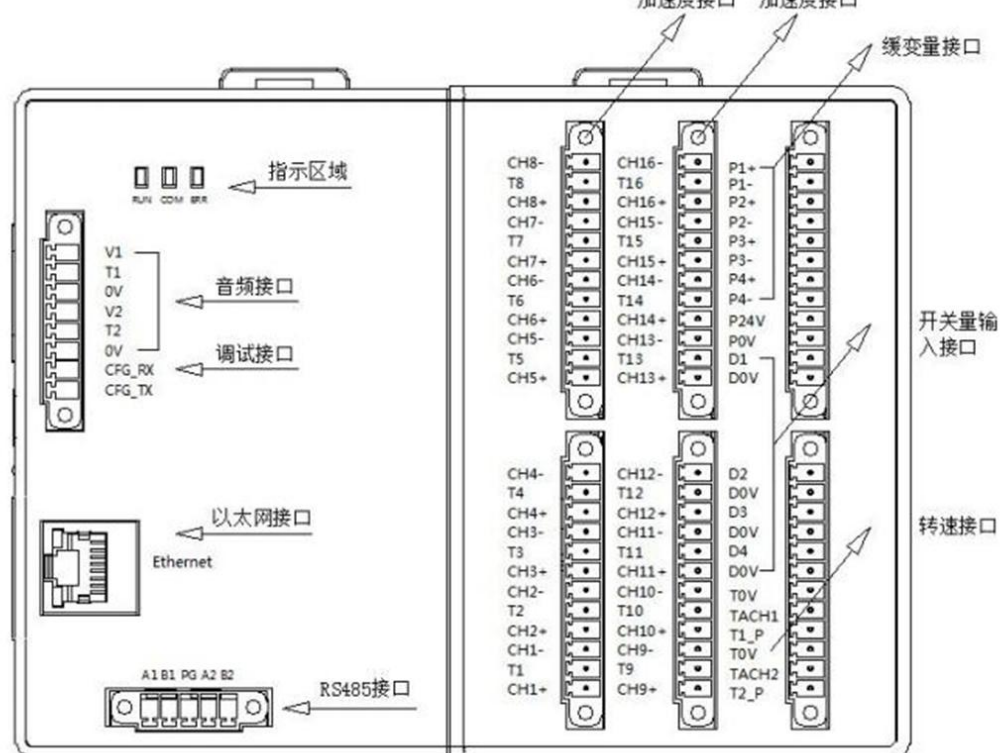
Note: Do not remove the host shell and antenna. Otherwise, it may lead to product failure.

3. Hardware of Intelligent Data Acquisition Unit (SD-GW5000)

3.1 Overview

The SD-DA7008/7016/7024 is a multi-channel condition monitoring system launched by SINSEGYE, designed for the non-steady-state operation characteristics of key industrial equipment. The product features 8, 16, or 24 channels for acceleration and temperature acquisition, speed measurement, and slow-variable acquisition. The system's main feature is its modular design, supporting up to 24 channels of acceleration and temperature acquisition. It can also be configured for 12 channels of slow-varying physical quantity acquisition, such as pressure, temperature, voltage, and current. The product includes two channels for speed measurement, allowing speed-correlated acquisition, and is equipped with configurable IO input and output modes.

The SD-DA7008/7016/7024 models offer the most comprehensive communication modes, supporting Ethernet, optical fiber, Wi-Fi, 4G, and other options, ensuring suitability for on-site applications. At the same time, data can be transmitted to DCS or PLC through two RS485 channels or an EtherCAT bus, truly integrating with on-site control systems. The online monitoring unit features 24-channel fully synchronous acquisition, accurately detecting equipment faults, and is a powerful tool for

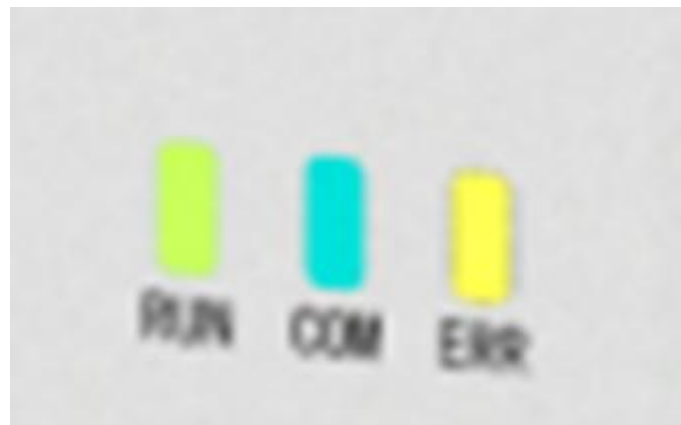


- 16-channel IEPE acceleration interface connects to acceleration sensors, with optional sensors featuring temperature measurement functionality.

- 4-channel slow variable interface, capable of collecting voltage and current;
- 4-channel digital input interface, dry and wet contacts;

- Dual speed measurement interface, connected to the speed sensor;
- The product comes with Ethernet and RS485 communication features.
- Audio interface, connected to IEPE sound sensor, to determine the on-site noise conditions;
- Debug interface, can use the debug serial port for configuring the collection unit;
- Indicates the area and shows the operating status of the product.

3.3 Indicator Instructions



RUN Indicator :

When the system is powered on, wait for about 20 seconds. If the RUN light flashes, it indicates that the system is operating normally; if it does not flash, it indicates that the system is malfunctioning.

COM Indicator :

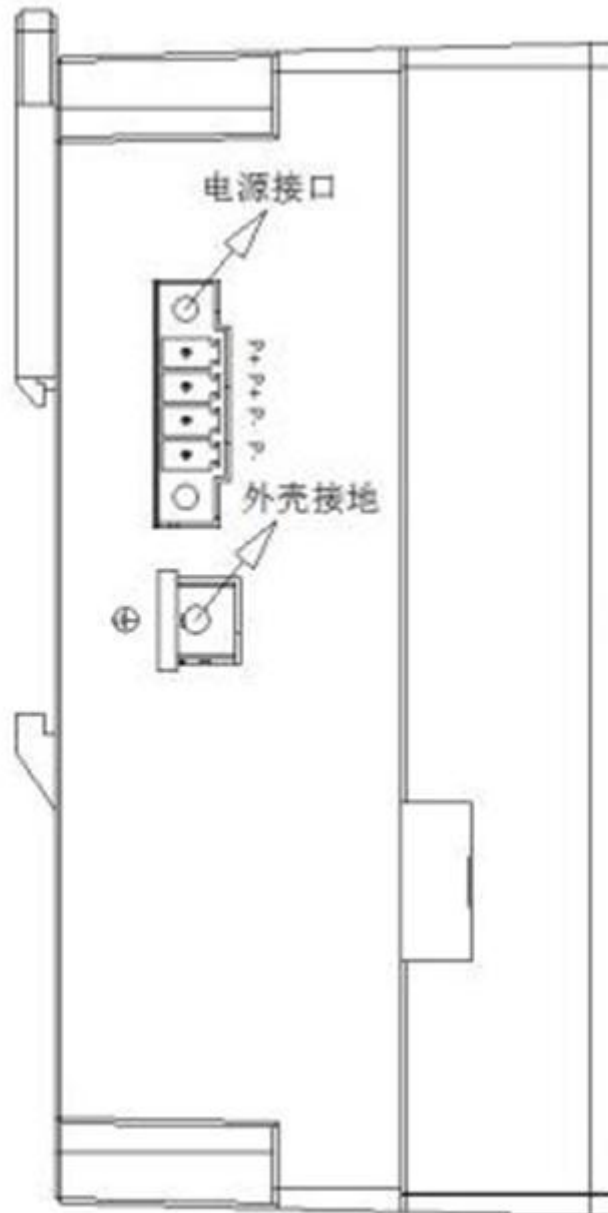
When the system is powered on, the COM light stays on steadily. After about 30 seconds, the COM light starts flashing, indicating that the device is properly connected to the server. If it remains constantly on, it indicates a connection failure.

ERR Indicator :

Power on the system. If the ERR light remains on, wait for about 30 seconds. If the ERR light flashes, it indicates an abnormal system self-check; if it stays on continuously, it means the self-check is normal.

3.4 Monitoring unit power access (power area)

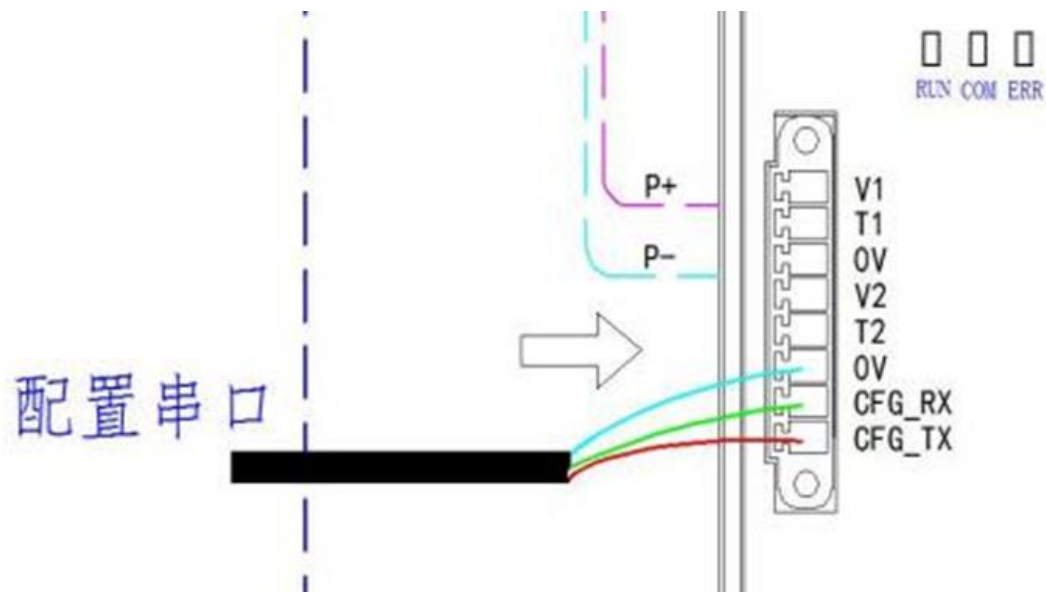
When taking the monitoring unit out of the package for the first time, check that the appearance is normal. Then connect it to an 8~36V DC power supply using P P-, paying attention to the polarity (there is polarity protection). Also, make sure the casing is connected to a protective ground for surge protection.



3.5 Monitoring unit debugging interface

Monitoring unit debugging interface (currently using a configured serial port, later to be changed to WiFi hotspot configuration)

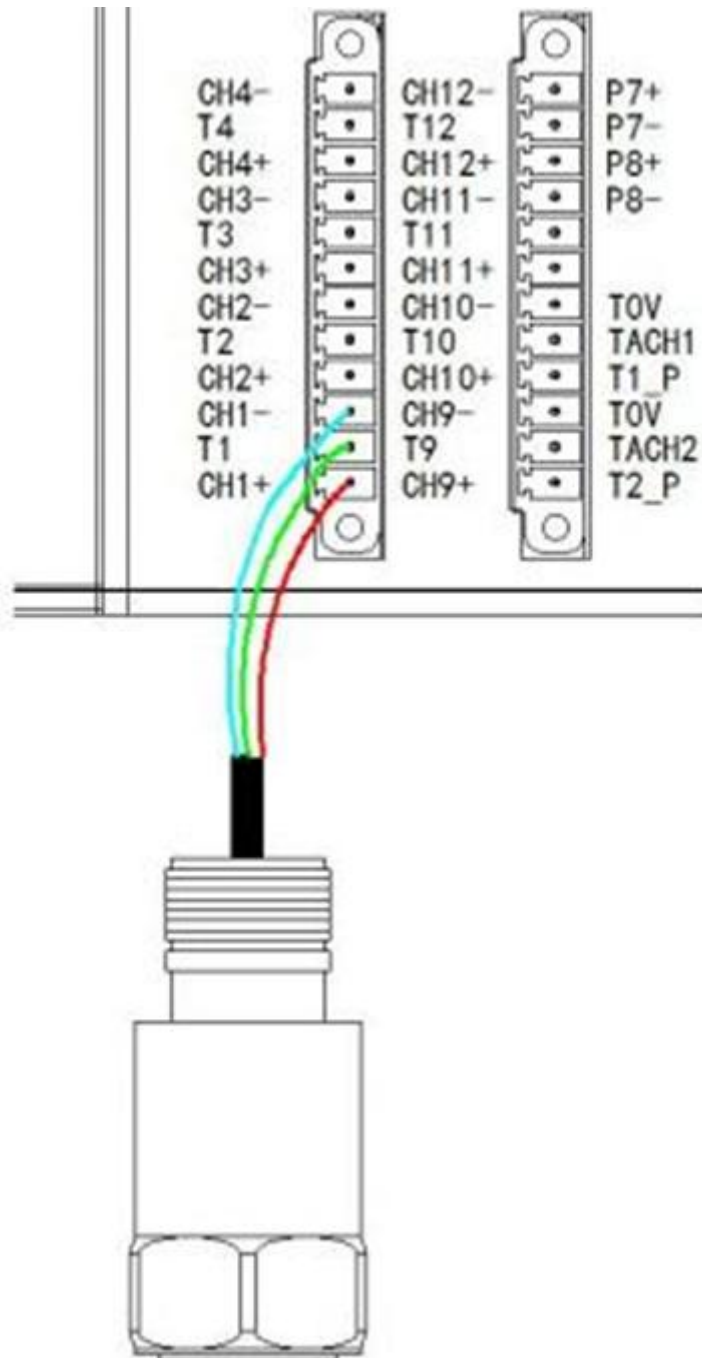
Take out the configuration serial port from the attachment, connect one end to the PC's USB port, and connect the other end to CFG RX/CFG TX/0V. Run the serial configuration tool installed on the PC, and configure various parameters after powering on the SD-DA7000.



3.6 Wiring of acceleration measurement points for monitoring unit

The monitoring unit supports the collection of 8/16-channel integrated acceleration and temperature sensors.

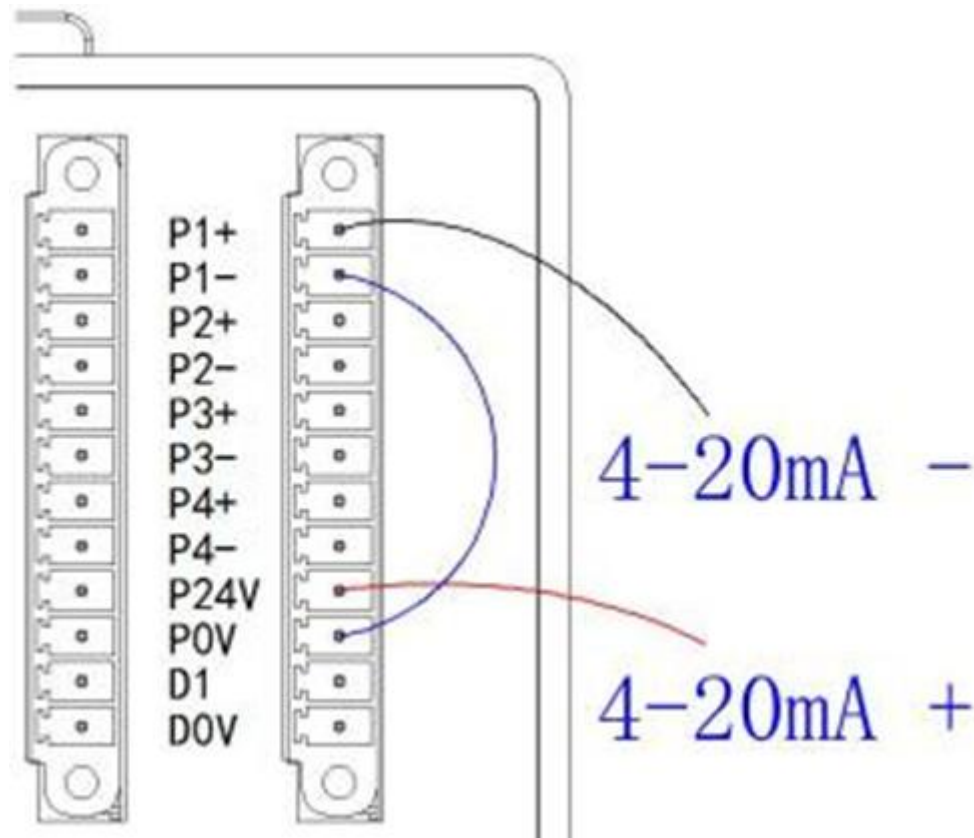
The integrated accelerometer-temperature sensor is of the three-wire type and is not a PT100 type. Please consult with us in advance regarding the selection of the relevant sensors.



3.7 Buffer Variable Interface

The slow variable interface refers to certain physical interfaces for process data at the site, such as pressure, flow, torque, temperature, and other physical quantities. These physical quantities exist in the form of voltage (0~5V, 0~10V) or 4~20mA current. Voltage signals can be directly connected according to the schematics, while 4~20mA signals have three wiring methods. The monitoring unit supports 4-channel interfaces in 2-wire, 3-wire, and 4-wire configurations.

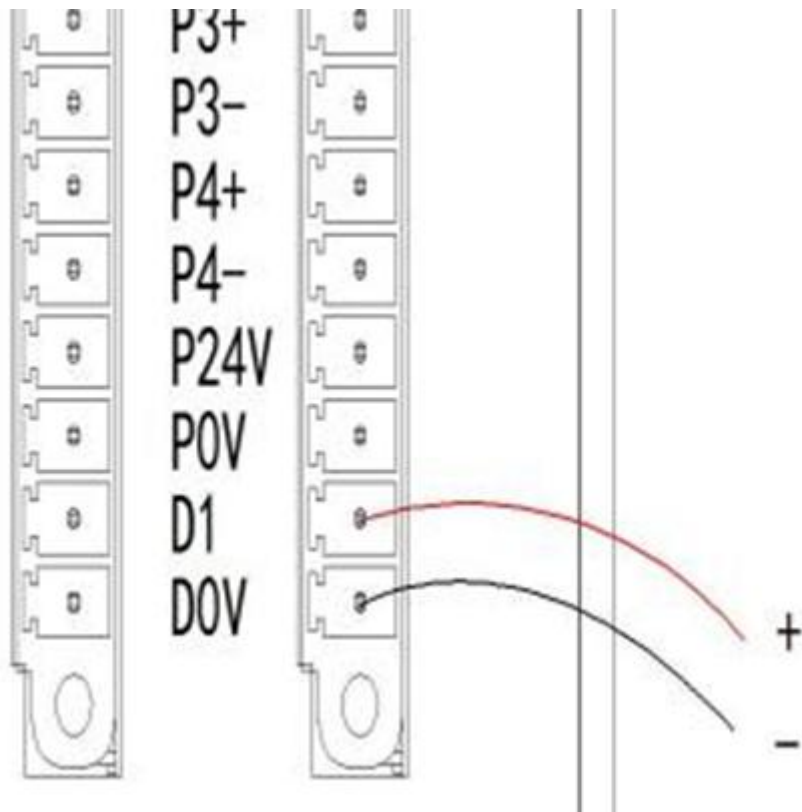
The right figure shows the wiring method for a 2-wire 4~20mA system. If it is a voltage signal, there is no need to connect to 24V; it can be connected directly to P1, P1-.



3.8 Digital input/output interface

The switch interface currently supports 4-channel IO input.

The switch input can be directly connected to D1 and D0V. The wet contact voltage supports 12~24V levels, and there is 3.5KV electrical isolation.



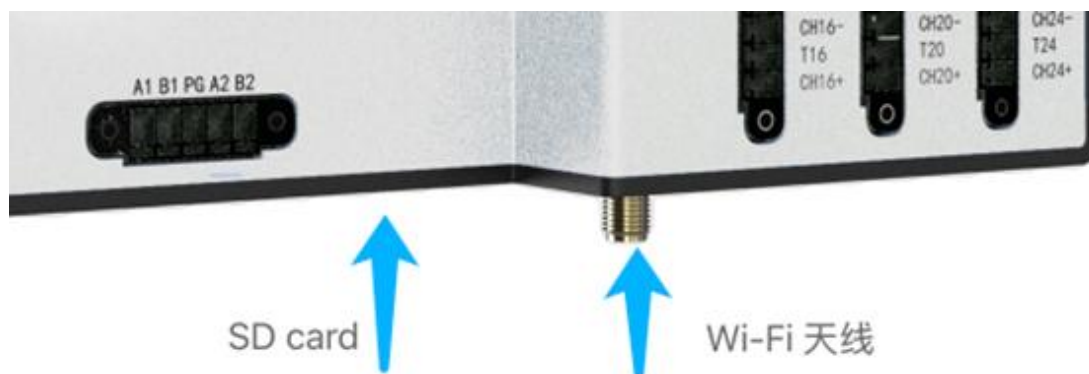
3.9 Other interfaces

4G interface: When choosing the 4G version, this interface needs to be connected to a 4G antenna;



WIFI interface: when selecting the WIFI version, this interface needs to be connected to the WIFI antenna;

Industrial-grade SD card interface, removable storage;



Additionally, there is a fiber optic interface and a fiber optic indicator light. When selecting the fiber optic version, this interface connects to the fiber optic cable;



IV. Appendix

1. Use of Attributes and Annotations

The following table provides an overview of all compilations and annotations that can be configured in the server. These can be defined in various real-time environments in <Product Name> to implement different functions. Refer to the following table for a detailed description of the properties and annotations.

Symbol description/legend	Meaning

2. Error Diagnosis

Extended diagnostics may be required if undesirable operating behavior occurs. According to specific circumstance, this may include the following actions: <Action 1>, <Action 2>, <Action n>. Details can be found in the table below:

Action	Use cases	Link

The following table provides an overview of possible unexpected operation behaviors and solutions.

3. Support and Services

SINSEGYE provides comprehensive support and services for the company's products and solutions, ensuring a fast and professional response to relevant issues.

Data download

Our data download section covers a wealth of file resources, including application cases, technical documentation, and product descriptions, to meet your diverse needs.

Data download address: <https://help.sinsegye.com>

Get support

Please contact us for local support and service of SINSEGYE products. You can visit

our official website www.sinsegye.com to find out the branch address of SINSEGYE and get more information about SINSEGYE.

In addition, you can contact us by:

- Hotline: (+86) 400-013-2158
- Email Address: support@sinsegye.com.cn