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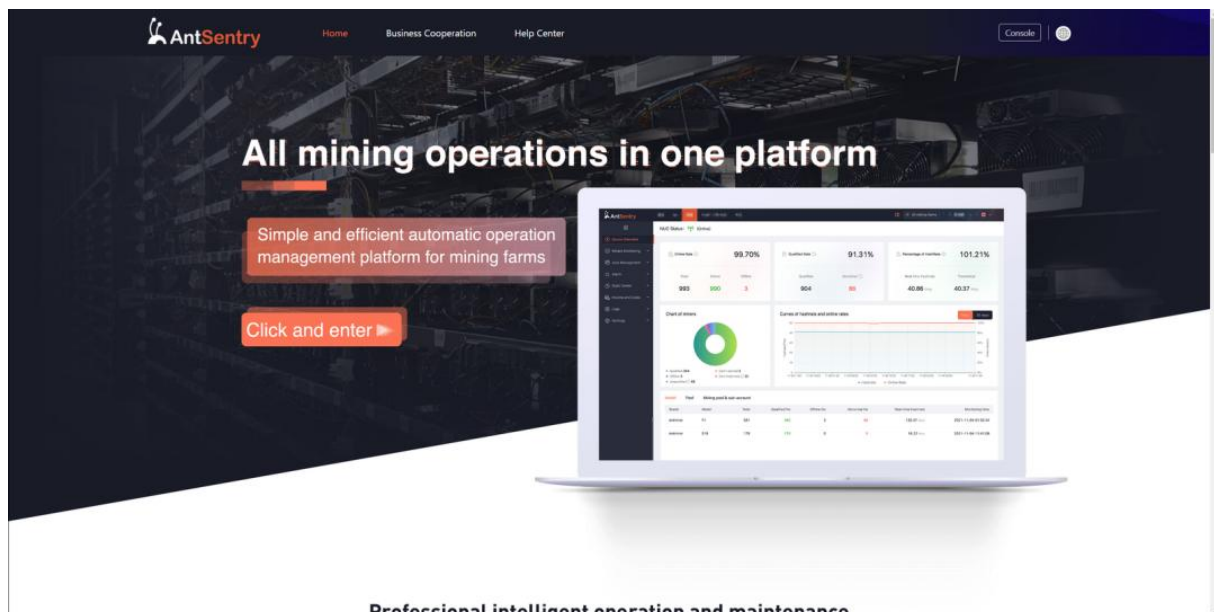
ANTSENTRY Overview

ANTSENTRY is an advanced digital visualization platform for mining farm operations, developed by Bitmain to provide mining farm owners with a one-stop automated management solution. As a free service platform, ANTSENTRY focuses on enhancing operational efficiency through intelligent monitoring, ensuring stable farm performance. Additionally, it offers exclusive services for Bitmain Antminer users, including customized firmware upgrades and flexible mode switching. These services not only optimize mining machine performance but also allow users to adapt mining modes according to farm-specific needs.

ANTSENTRY empowers users to effortlessly monitor mining machine metrics and perform batch operations, dramatically boosting productivity. As a powerful solution, it enables smart, low-maintenance operations for mining farms.

register and login

Visit the ANTSENTRY website (<https://www.antsentry.com/>)



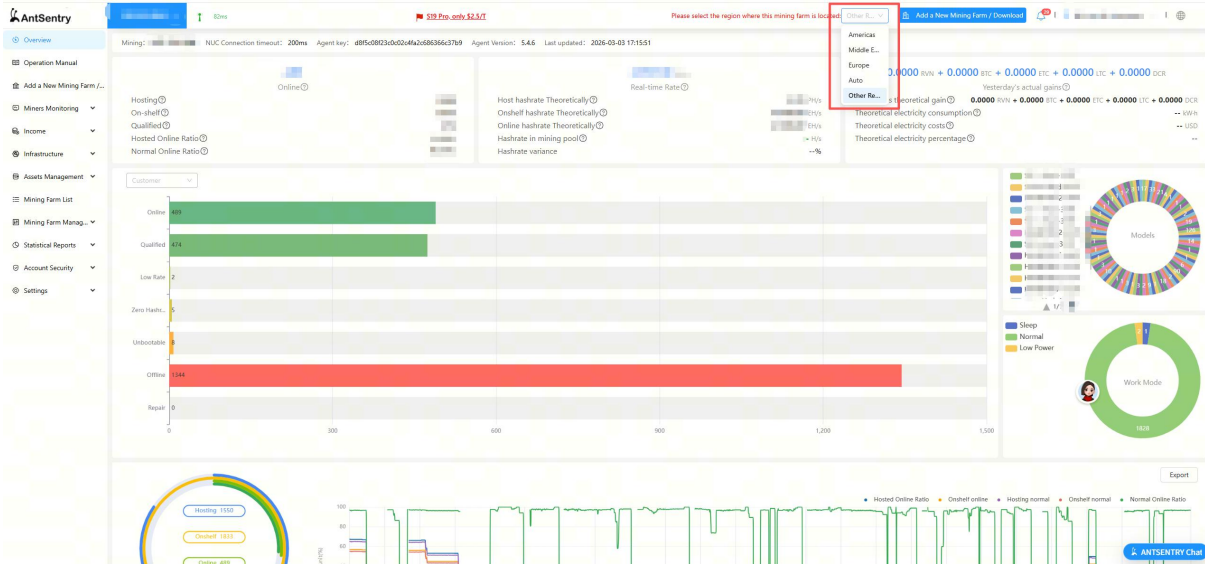
Professional intelligent operation and maintenance

1. Click the Console button in the top-right corner to enter the login interface. Log in directly if you already have an account, or click Register to enter the registration interface.
 - a. Login methods: mobile verification code login, account password login;
 - b. Registration methods: Quick mobile registration, Email registration
 - c. Chinese mainland mobile phone numbers cannot be registered.

2. After successful registration, you can access the ANTSENTRY overview page.

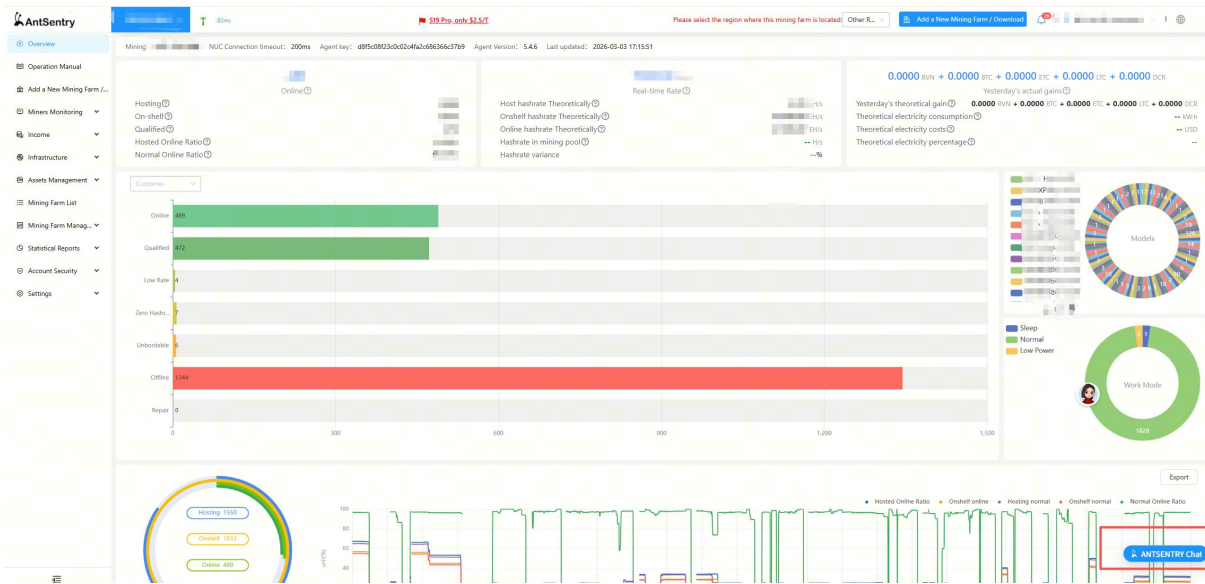
Select region

Go to the overview page and select the region of the NUC where the Agent service is deployed. If it is not in the Americas, Middle East, or Europe, choose other regions.

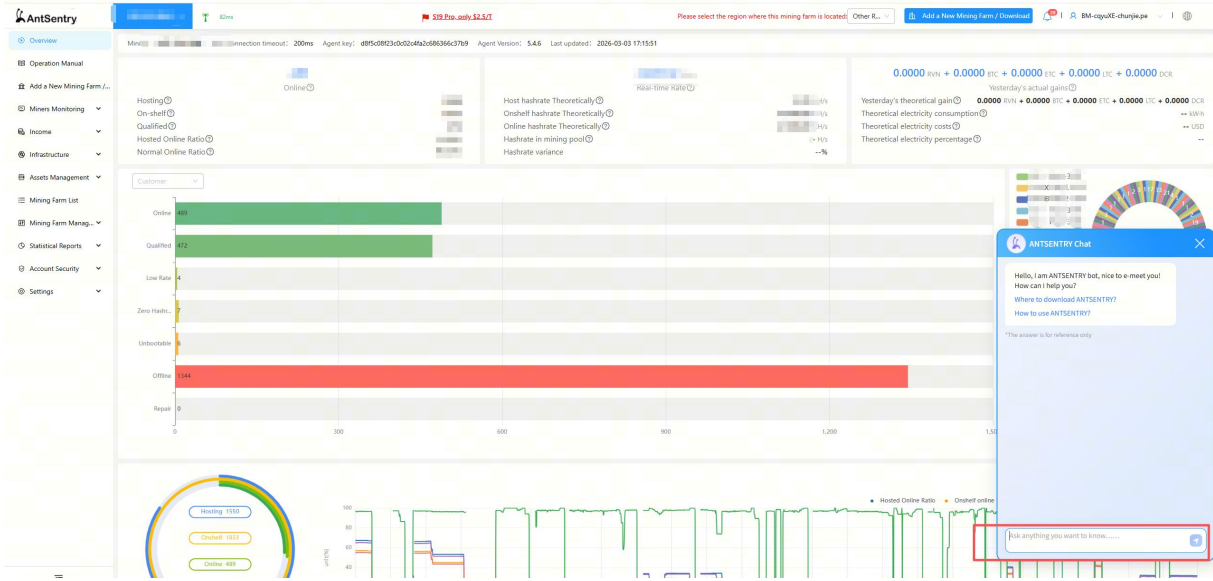


Smart Customer Service

Click "ANTSENTRY Chat" at the bottom right of the page

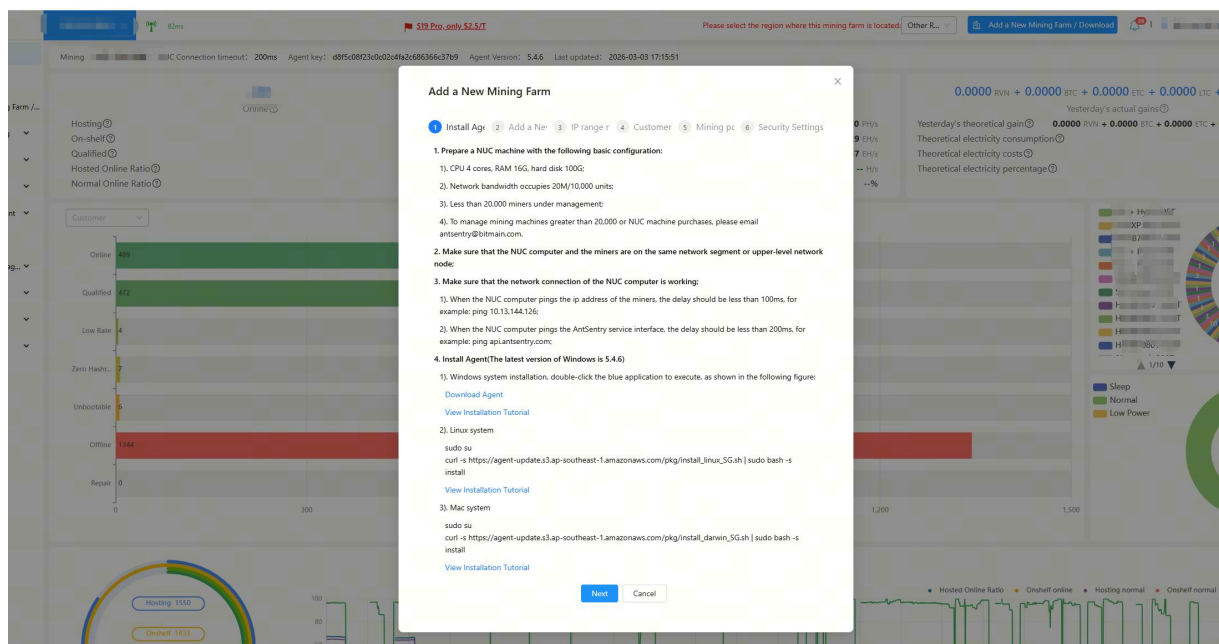
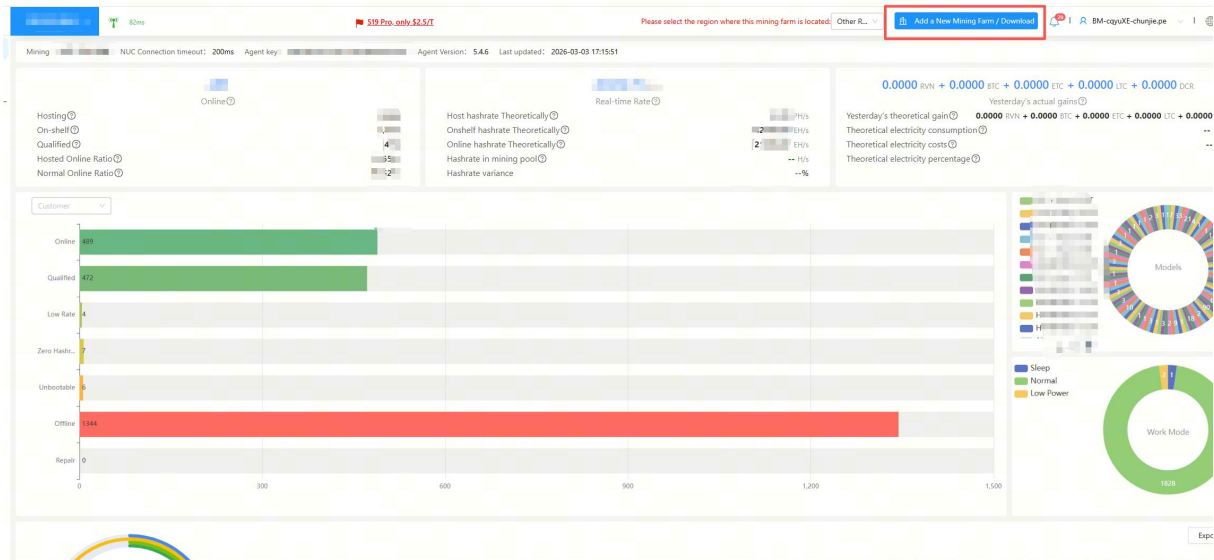


Enter your question in the input box to get the answer.



1. Create a Mining Farm

1. After logging in, click the "Add a New Mining Farm" button in the top-right navigation to enter the mine creation interface, as shown below:

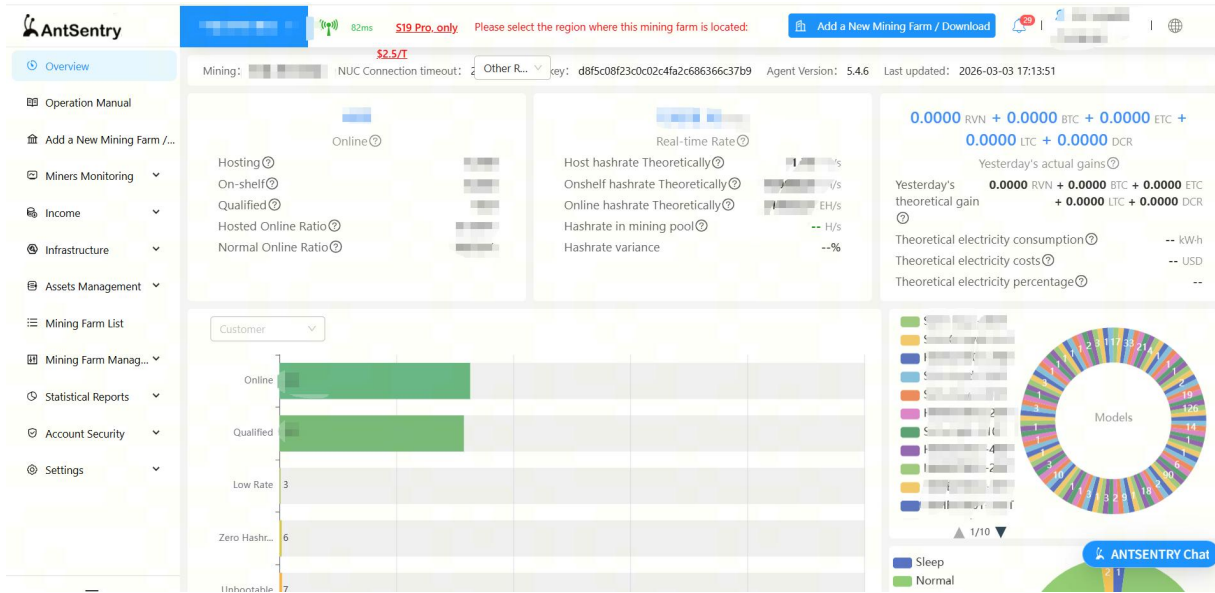


2. The mining farm setup consists of five steps: Agent installation, new mining farm creation, IP range restriction, mining pool configuration, and security settings. Follow these steps in order.
3. The agent must download, decompress, and launch to proceed to the next step: 'Create a new mining farm'.
4. If the agent key is already present, you can modify it. Modify the last two characters of the agent key in the agent configuration file.

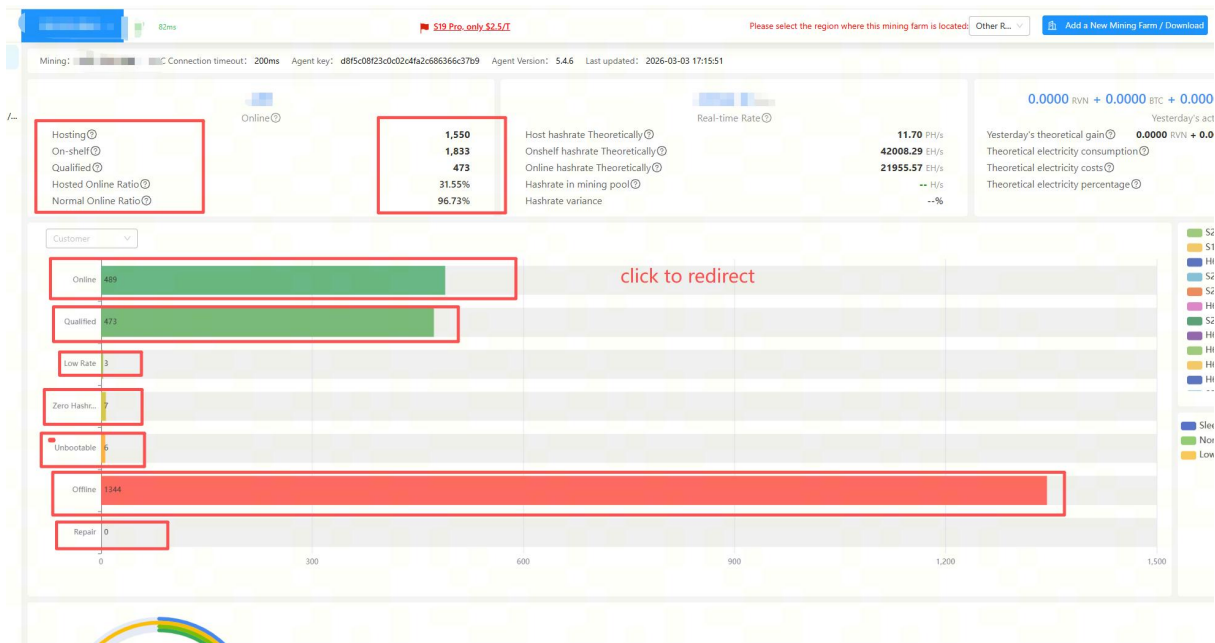
2. Overview Page

1. The overview page provides a multi-dimensional visualization of mining equipment performance,

enabling mining farm administrators to instantly grasp key metrics including machine status, computational power, revenue, and electricity costs.

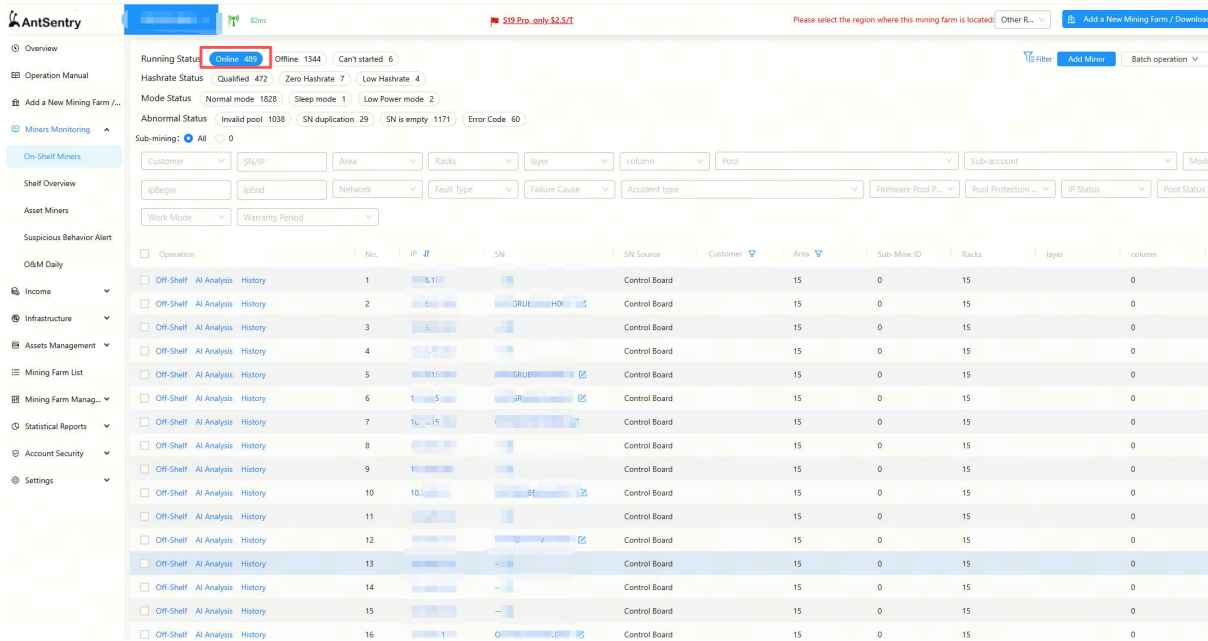


Overview page

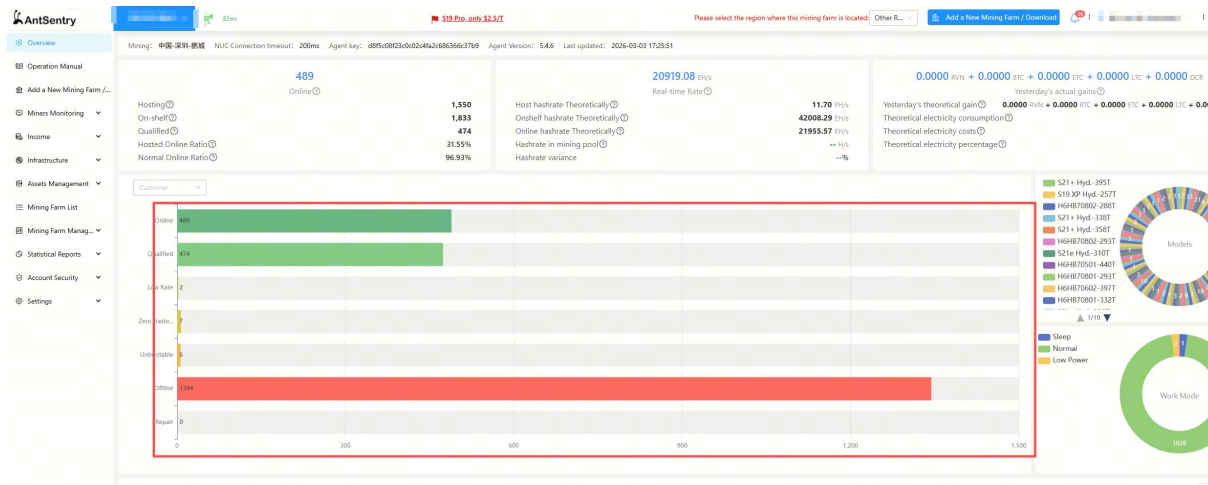


Click to redirect

2. Click 'Online', 'Managed', 'Listed', or 'Qualified' to access the corresponding mining machine list interface.



3. Click on any column in the column chart to access the corresponding mining machine list page.



3. Mining machine monitoring

3.1 Mining machines on the shelves

The mining machine list displays all configured machines within the specified IP range. The top section shows status labels including 'listed', 'online', 'offline', 'qualified', and 'zero computing power'. Click to quickly search for machines by status.

The screenshot shows the AntSentry dashboard with the following statistics:

- Running Status: Online 489, Offline 1344, Can't started 6
- Hashrate Status: Qualified 472, Zero Hashrate 7, Low Hashrate 4
- Mode Status: Normal mode 1828, Sleep mode 1, Low Power mode 2
- Abnormal Status: Invalid pool 1038, SN duplication 29, SN is empty 1171, Error Code 61

The main table displays a list of machines with columns for Operation, No., SN, SN Source, Customer, Area, Sub-Mine ID, Racks, Layer, Column, Model, Network, and IP. The first few rows are:

Operation	No.	SN	SN Source	Customer	Area	Sub-Mine ID	Racks	Layer	Column	Model	Network	IP
Off-Shell AI Analysis History	1		Control Board		15	0	15	0	0	S21+ Hyd-395T	Online	DHC
Off-Shell AI Analysis History	2		Hash Board		15	0	15	0	0	S19 XP Hyd-257T	Offline	
Off-Shell AI Analysis History	3		Control Board		15	0	15	0	0	HGH870802-288T	Online	DHC

3.1.1 Top Statistics Label

The labels contain specific statistics. Click a label to search, as shown in the figure below.

The screenshot shows the AntSentry dashboard with the following statistics:

- Running Status: Online 489, Offline 1344, Can't started 7
- Hashrate Status: Qualified 474, Zero Hashrate 8, Low Hashrate 2
- Mode Status: Normal mode 1828, Sleep mode 1, Low Power mode 2
- Abnormal Status: Invalid pool 1038, SN duplication 29, SN is empty 1171, Error Code 61

The main table displays a list of machines with columns for Operation, No., SN, SN Source, Customer, Area, Sub-Mine ID, Racks, Layer, Column, Model, Network, and IP. The first few rows are:

Operation	No.	SN	SN Source	Customer	Area	Sub-Mine ID	Racks	Layer	Column	Model	Network	IP
Off-Shell AI Analysis History	1		Manual Input		15	0	15	0	0	HGH870802-288T		
Off-Shell AI Analysis History	2		Control Board		0	0	0	0	0	XP1-2T		
Off-Shell AI Analysis History	3		Manual Input		12	0	0	0	0	D9-1770G		

3.1.2 Filtering

Filter based on required conditions, and combine filters by labels, sub-mines, and filter conditions.

The screenshot shows the AntSentry interface with various filters and a table of mining machines. A red box highlights the 'Sub-mining' filter section, which includes dropdowns for Customer, SN/UP, Area, Racks, Layer, Column, Pool, Sub-account, Model, and Firmware Version. Below this, another red box highlights a table of mining machines with columns for Operation, No., SN, SN Source, Customer, Area, Sub-Mine ID, Racks, Layer, Column, Model, and Network.

3.1.3 Batch Operations

You can perform batch operations on selected or filtered mining machines. Batch operations include: removing from list, restarting mining machines, configuring miner and mining pool, firmware upgrade, switching working mode, modifying client, restoring DHCP, turning on location light, removing from list + restoring DHCP, restoring factory settings, setting fan speed, and adding accident type.

The screenshot shows the AntSentry interface with a 'Batch operation' dropdown menu open. The menu lists various actions such as 'Off-Shelf', 'Restart the Miner', 'Configure worker-ID and Pool', 'Firmware Update', 'Change work mode', 'Modify customer', 'Recover DHCP', 'Location light', 'Remove + Recover DHCP', 'Reset', 'Fan speed', 'Add accident type', 'Adjusting HashRate', 'Setting the Miner frequency', 'Setting the Miner Power Percent', and 'Download history log'. A red box highlights this menu.

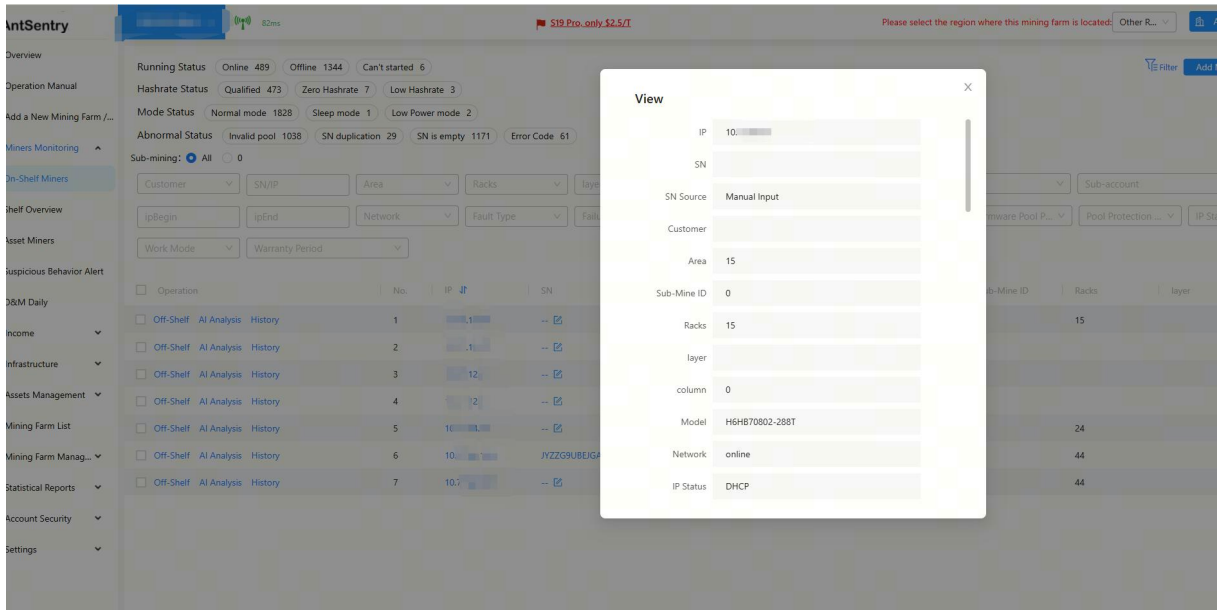
3.1.4 List Fields

Select the fields to display and their order based on your business needs.

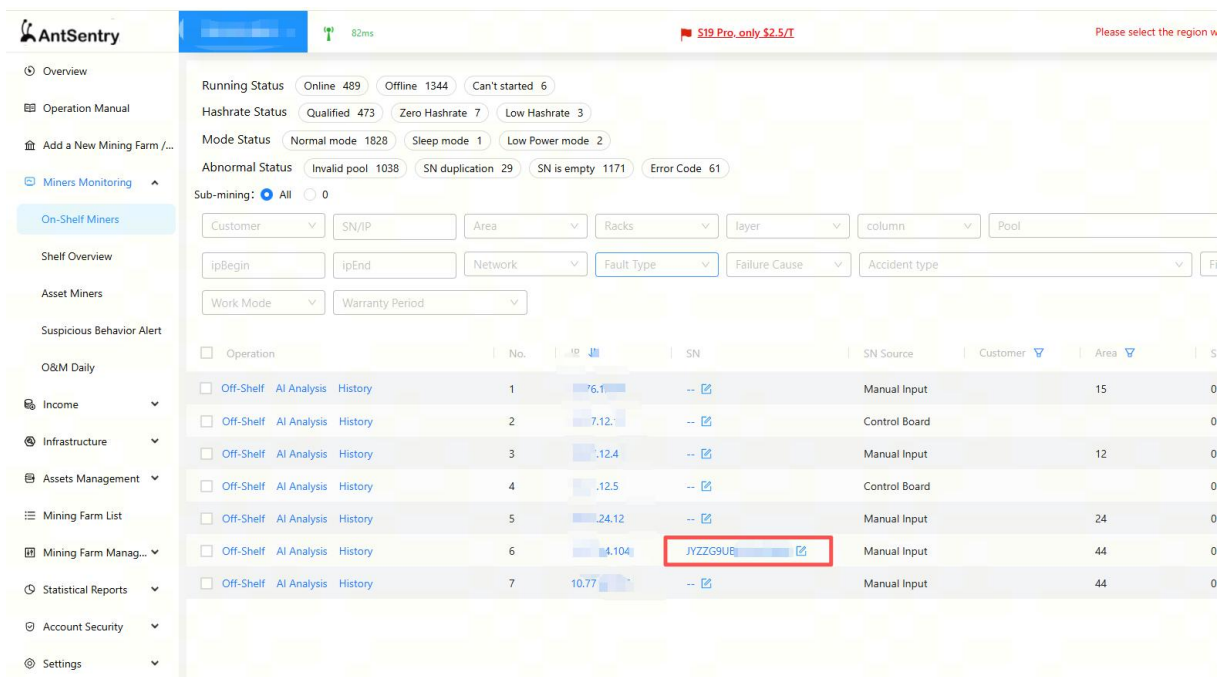
1. The first two fields in the selected field are fixed list columns by default.
2. You can drag and drop the selected fields to adjust their display position in the list.

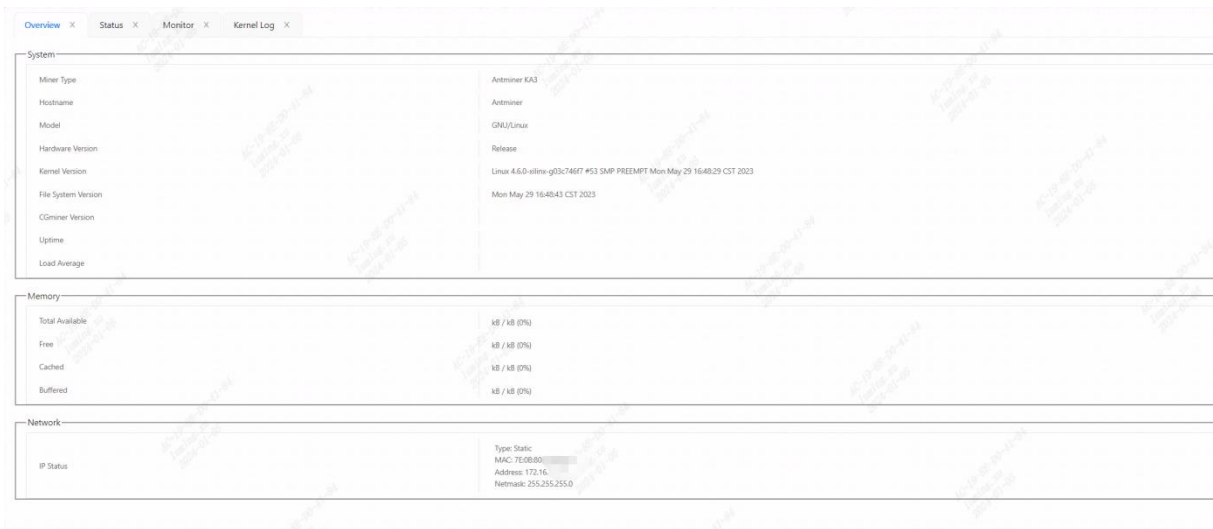
3.1.6 View Mining Machine Details

1. Click any blank area on the single-line mining machine to view all its information.

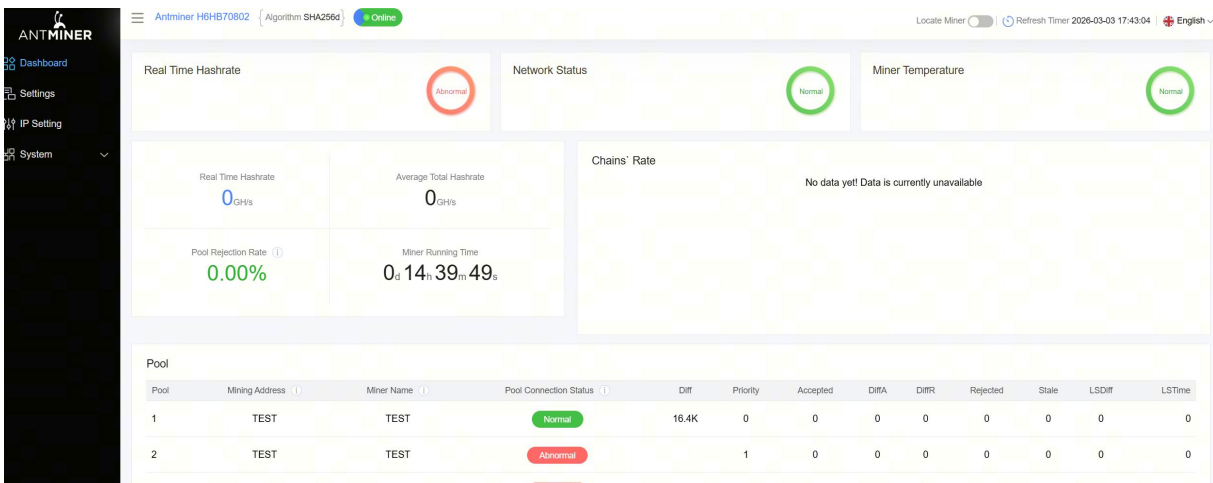
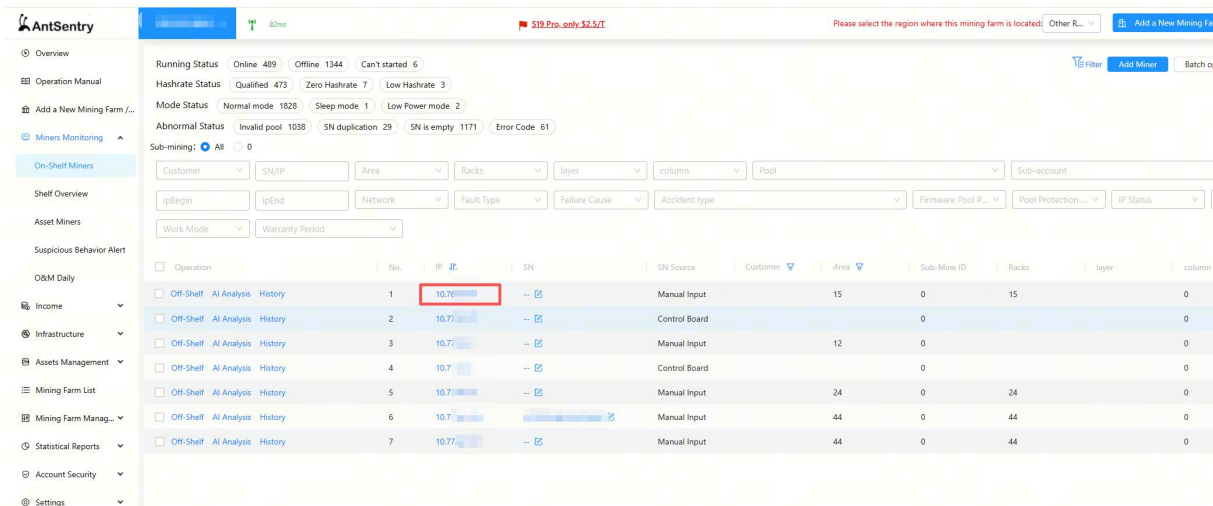


2. Clicking SN takes you to the details page, which includes an overview, status, monitoring information, and kernel log information.





3. Click a single IP to log in and view mining machine details.



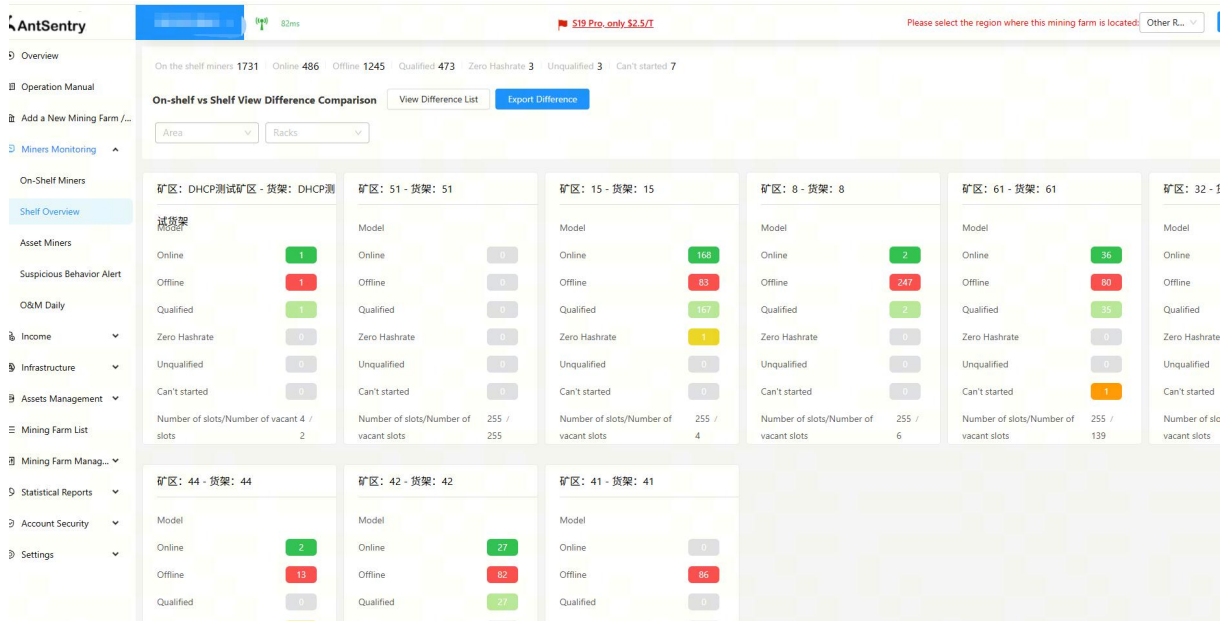
3.2 Shelf Display

3.2.1 Shelf Overview

1. Display the model, qualified units, dropped units, abnormal units, and occupied/empty positions of

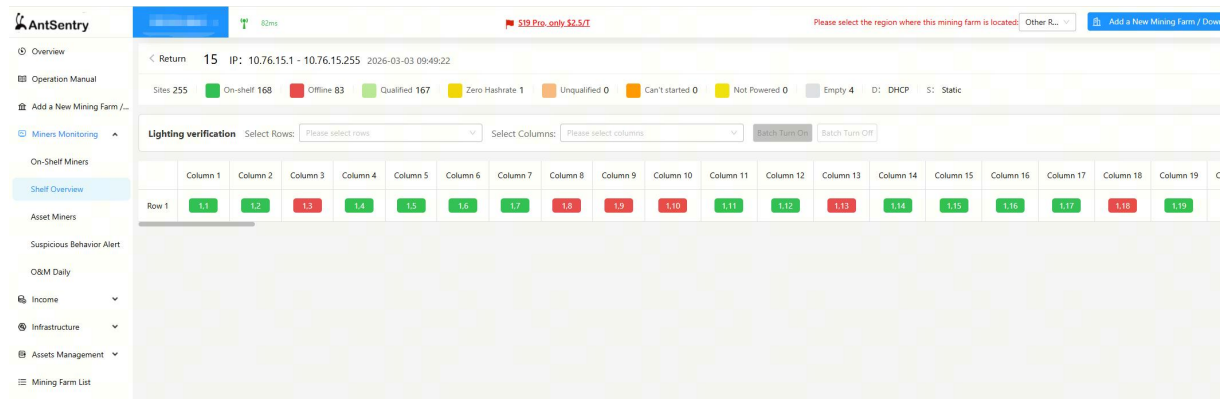
the shelf.

2. Query by mining area and shelf;
3. Compare Shelf vs Shelf View Differences: View difference list and export differences
4. Supports exporting empty slots.

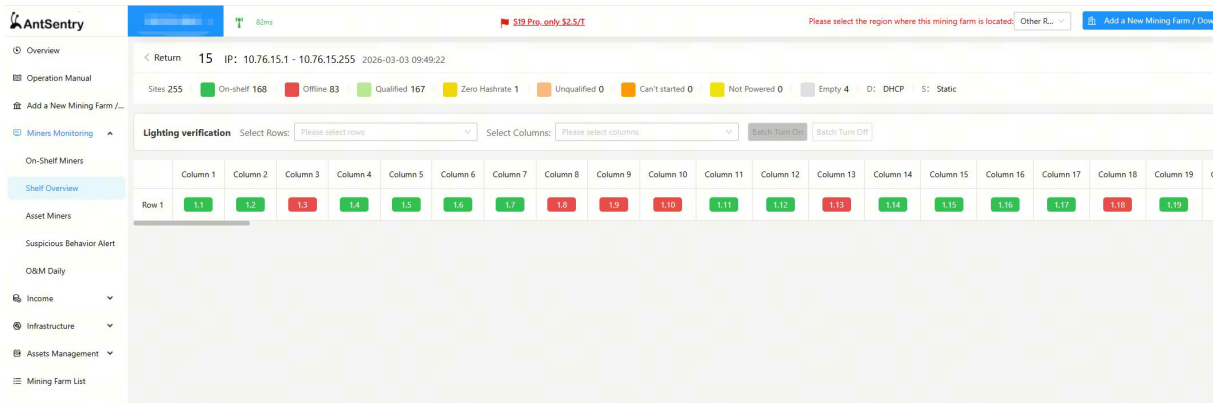


3.2.2 Shelf Details

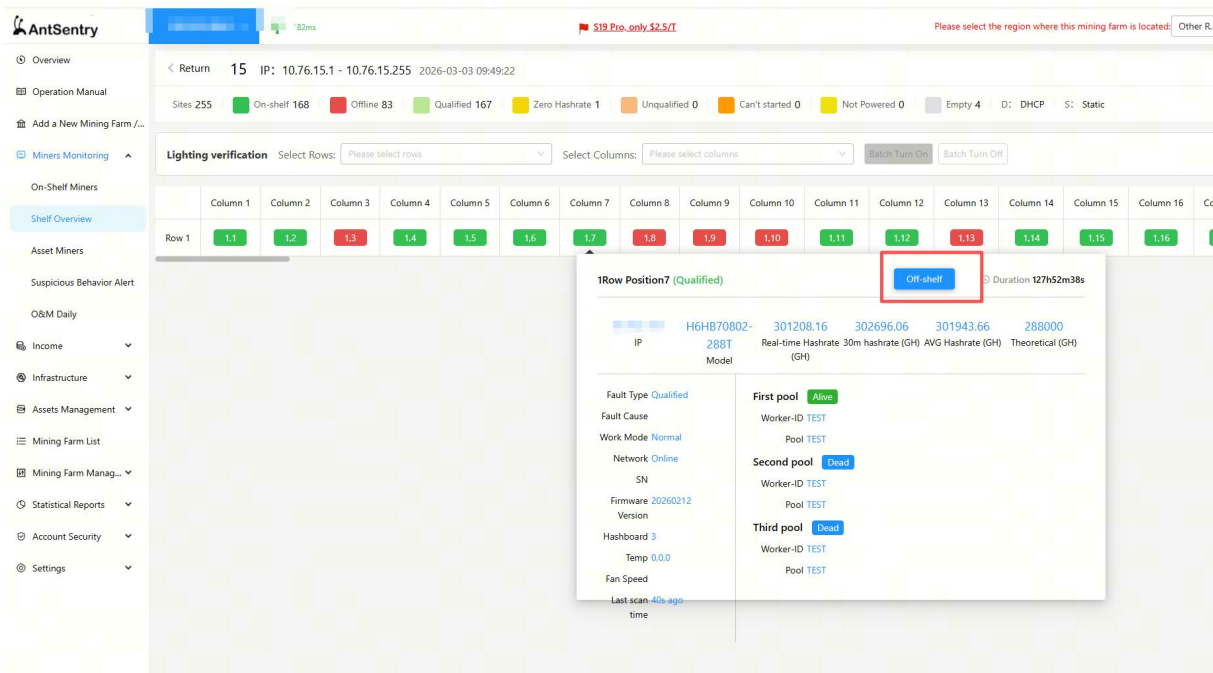
1. Click the shelf to access the details page for each machine position.
2. Turn lights on or off in batches by row or column.



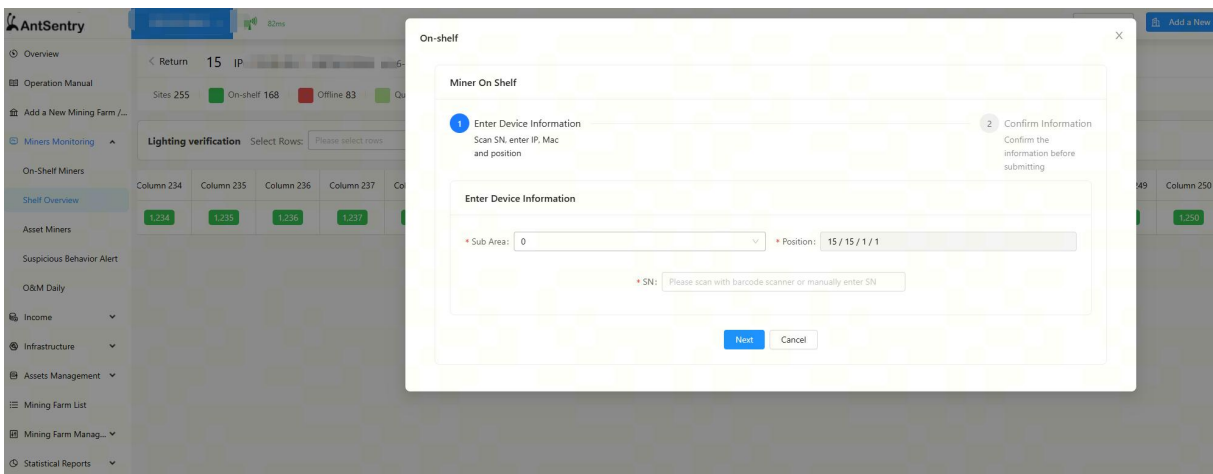
3. The operation and maintenance mode displays the IP configuration of mining machines, shelf occupancy status, and operational status of mining machines.



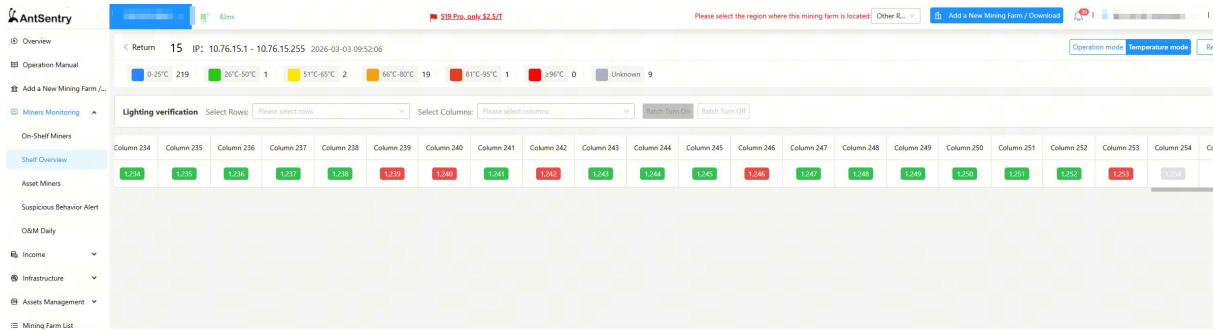
1) Click the green square to view details or remove this mining machine from the system.



2) Click the gray grid to add a new mining machine (or move an existing one)



4. The temperature mode displays the operating temperature distribution of mining machines on the shelf.



3.3 Removal Records

3.2.1 Check Shelf Removal Records

The initial page displays all mining machine removal records.

Operation	No.	IP	SN	Area	Racks	Model	Customer	History Log	Reason of removal	Repair Method	Recorder	Time
On-shelf	Delete	1	5.1	DGA...	15	S19e XP Hyd-340T	Miner offline, unable L.	Miner offline, unable L.	撤场	维修下架	BM-cqyx0E-chunjie.pe	2026-01-12 10:52:04
On-shelf	Delete	2	10.71	HQDZ...	15	H8H856704-251T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-cqyx0E-chunjie.pe	2025-12-17 03:08:31
On-shelf	Delete	3	10.71	HQDZ...	15	H8H856703-251T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-cqyx0E-chunjie.pe	2025-12-17 03:08:31
On-shelf	Delete	4	10.71	HQDZ...	15	H8H856704-251T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-cqyx0E-chunjie.pe	2025-12-17 03:08:31
On-shelf	Delete	5	10.71	DLTDC...	15	S21+ Hyd-319T	Download	Success	其他矿机坏了	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 08:10:21
On-shelf	Delete	6	10.71	JZZZ...	15	S21+ Hyd-319T	Download	Success	其他矿机坏了	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 08:10:21
On-shelf	Delete	7	10.71	JZZZ...	15	S21+ Hyd-319T	Download	Success	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 06:45:24
On-shelf	Delete	8	10.71	JZZZ...	15	S21+ Hyd-319T	Download	Success	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 06:45:24
On-shelf	Delete	9	10.71	DLTDC...	15	S21+ Hyd-319T	Download	Success	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 06:38:28
On-shelf	Delete	10	10.71	JZZZ...	15	历史任务下载超时	Failed		其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 06:38:28
On-shelf	Delete	11	10.71	YNA...	15	S21+ Hyd-319T	Download	Success	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 03:24:55
On-shelf	Delete	12	10.71	JZZZ...	15	L7-9500M	Download	Success	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 03:24:55
On-shelf	Delete	13	10.71	DLTDC...	15	S21+ Hyd-319T	Miner offline, unable L.	Miner offline, unable L.	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 02:58:11
On-shelf	Delete	14	10.71	DLTDC...	15	S21+ Hyd-319T	Miner offline, unable L.	Miner offline, unable L.	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 02:58:11
On-shelf	Delete	15	10.71	DLTDC...	15	S21+ Hyd-319T	Miner offline, unable L.	Miner offline, unable L.	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 09:16:05
On-shelf	Delete	16	10.71	DGA...	31	S21+ 235T	Miner offline, unable L.	Miner offline, unable L.	算力故障	维修下架	BM-cqyx0E-chunjie.pe	2025-09-29 11:34:41
On-shelf	Delete	17	10.71	DGA...	31	S21+ 235T	Miner offline, unable L.	Miner offline, unable L.	算力故障	维修下架	BM-cqyx0E-chunjie.pe	2025-09-29 11:34:41
On-shelf	Delete	18	10.71	DG...	61	S21+ 235T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-BFwb-yamuan.us	2025-09-16 22:07:55
On-shelf	Delete	19	10.71	DG...	61	S21+ 235T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-BFwb-yamuan.us	2025-09-16 22:07:55
On-shelf	Delete	20	10.71	DG...	61	S21+ 235T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-BFwb-yamuan.us	2025-09-16 22:07:55
On-shelf	Delete	21	10.71	DG...	61	S21+ 235T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-BFwb-yamuan.us	2025-09-16 22:07:55
On-shelf	Delete	22	10.71	DL...	61	S21+ 235T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-BFwb-yamuan.us	2025-09-16 22:07:55
On-shelf	Delete	23	10.71	DG...	61	S21+ 235T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-BFwb-yamuan.us	2025-09-16 22:07:55
On-shelf	Delete	24	10.71	DGA...	61	S21+ 235T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-BFwb-yamuan.us	2025-09-16 22:07:55

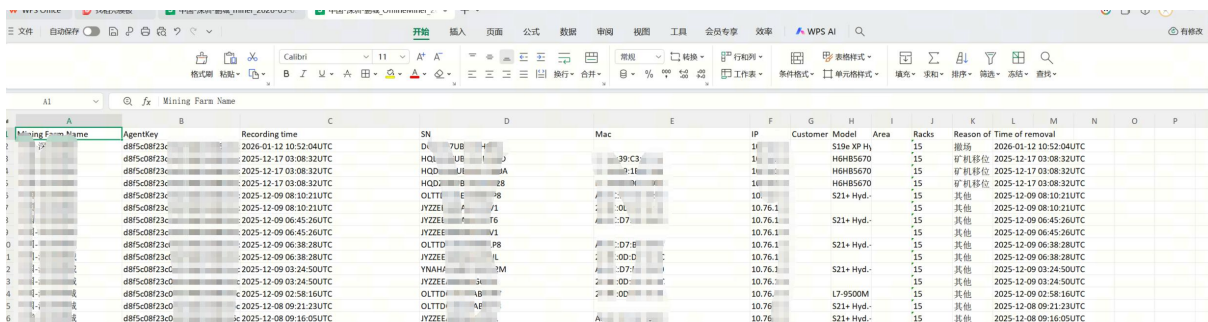
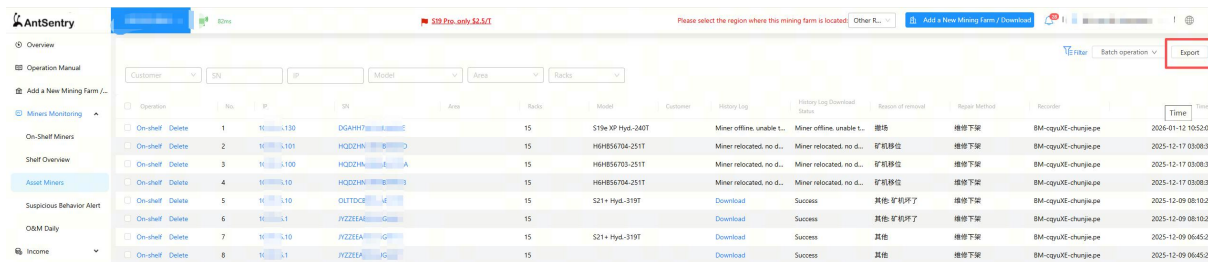
3.2.2 Filtering

Operation	No.	IP	SN	Area	Racks	Model	Customer	History Log	Reason of removal	Repair Method	Recorder	Time
On-shelf	Delete	1	10.71	DGAH7L...	15	S19e XP Hyd-340T	Miner offline, unable L.	Miner offline, unable L.	撤场	维修下架	BM-cqyx0E-chunjie.pe	2026-01-12 10:52:04
On-shelf	Delete	2	10.71	HQDZHN...	15	H8H856704-251T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-cqyx0E-chunjie.pe	2025-12-17 03:08:31
On-shelf	Delete	3	10.71	HQDZHM...	15	H8H856703-251T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-cqyx0E-chunjie.pe	2025-12-17 03:08:31
On-shelf	Delete	4	10.71	HQDZHN...	15	H8H856704-251T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-cqyx0E-chunjie.pe	2025-12-17 03:08:31
On-shelf	Delete	5	10.71	DLTDC...	15	S21+ Hyd-319T	Download	Success	其他矿机坏了	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 08:10:21
On-shelf	Delete	6	10.71	JZZZ...	15	S21+ Hyd-319T	Download	Success	其他矿机坏了	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 08:10:21
On-shelf	Delete	7	10.71	JZZZ...	15	S21+ Hyd-319T	Download	Success	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 06:45:24
On-shelf	Delete	8	10.71	JZZZ...	15	S21+ Hyd-319T	Download	Success	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 06:45:24

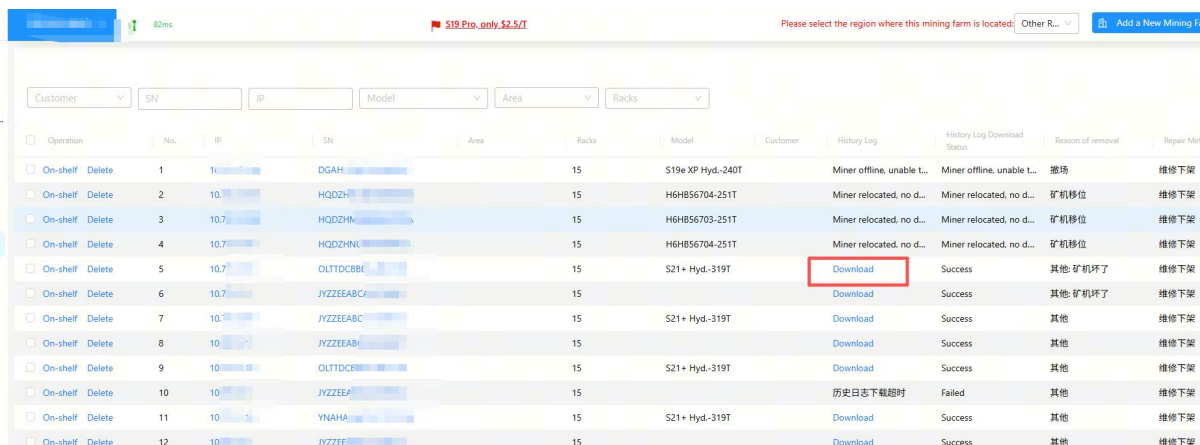
3.2.3 Batch Operations

Operation	No.	IP	SN	Area	Racks	Model	Customer	History Log	Reason of removal	Repair Method	Recorder	Time
On-shelf	Delete	1	10.71	DGAH7L...	15	S19e XP Hyd-340T	Miner offline, unable L.	Miner offline, unable L.	撤场	维修下架	BM-cqyx0E-chunjie.pe	2026-01-12 10:52:04
On-shelf	Delete	2	10.71	HQDZHN...	15	H8H856704-251T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-cqyx0E-chunjie.pe	2025-12-17 03:08:31
On-shelf	Delete	3	10.71	HQDZHM...	15	H8H856703-251T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-cqyx0E-chunjie.pe	2025-12-17 03:08:31
On-shelf	Delete	4	10.71	HQDZHN...	15	H8H856704-251T	Miner relocated, no d.	Miner relocated, no d.	矿机移位	维修下架	BM-cqyx0E-chunjie.pe	2025-12-17 03:08:31
On-shelf	Delete	5	10.71	DLTDC...	15	S21+ Hyd-319T	Download	Success	其他矿机坏了	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 08:10:21
On-shelf	Delete	6	10.71	JZZZ...	15	S21+ Hyd-319T	Download	Success	其他矿机坏了	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 08:10:21
On-shelf	Delete	7	10.71	JZZZ...	15	S21+ Hyd-319T	Download	Success	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 06:45:24
On-shelf	Delete	8	10.71	JZZZ...	15	S21+ Hyd-319T	Download	Success	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 06:45:24
On-shelf	Delete	9	10.71	DLTDC...	15	S21+ Hyd-319T	Download	Success	其他	维修下架	BM-cqyx0E-chunjie.pe	2025-12-09 06:45:24

3.2.4 Export



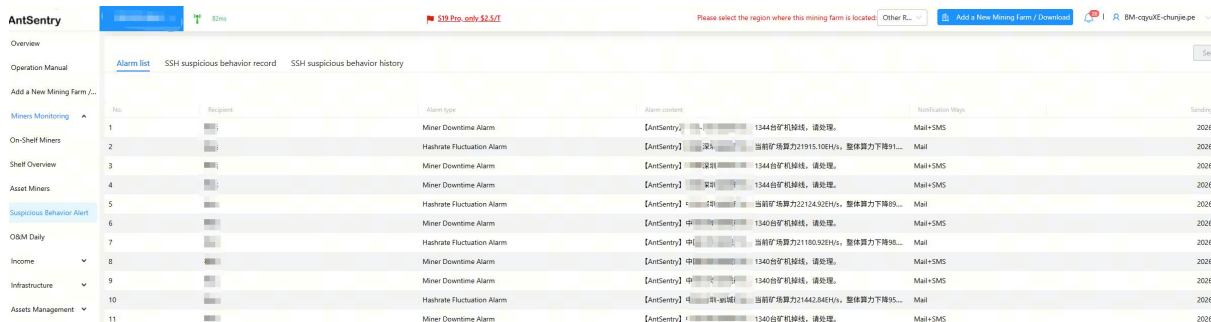
3.2.5 Downloading Mining Machine Logs



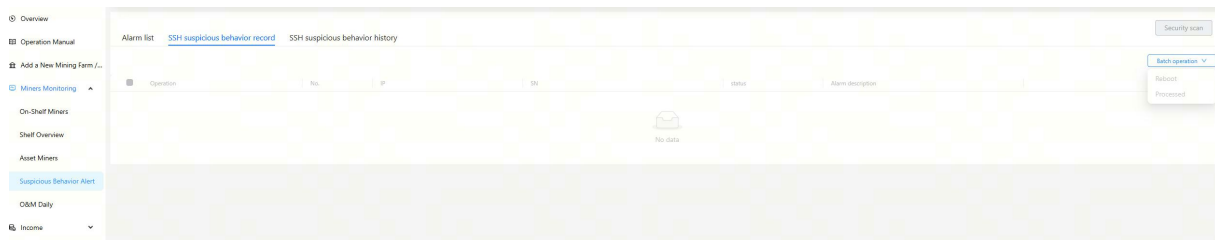
3.3 Abnormal Alarm

3.3.1 Displaying Alarm Information

1. The page displays alerts;

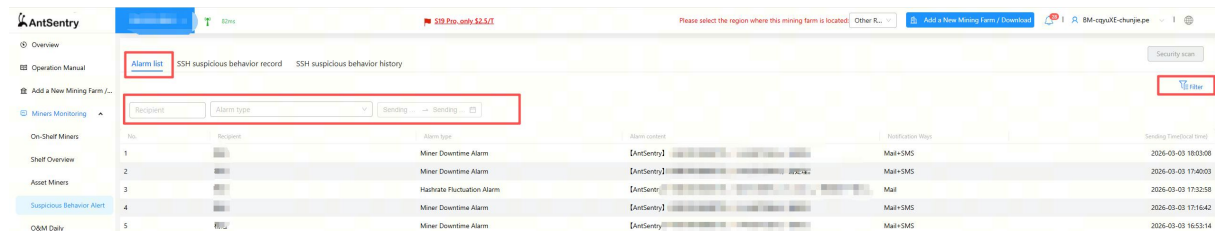


2. You can also view SSH suspicious behavior records and history.



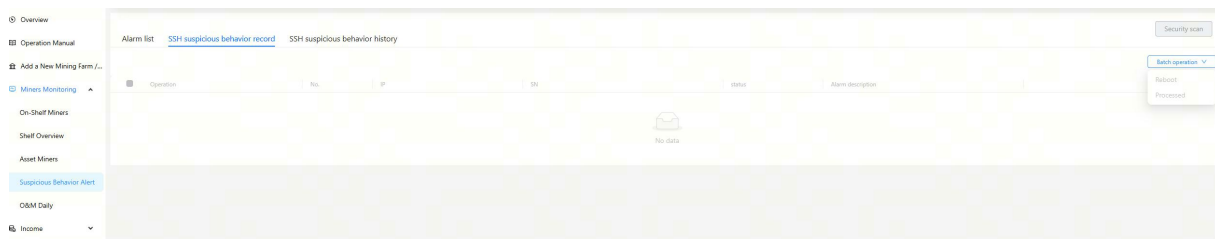
3.3.2 Filtering

You can filter the alert list.



3.3.3 Batch Operations

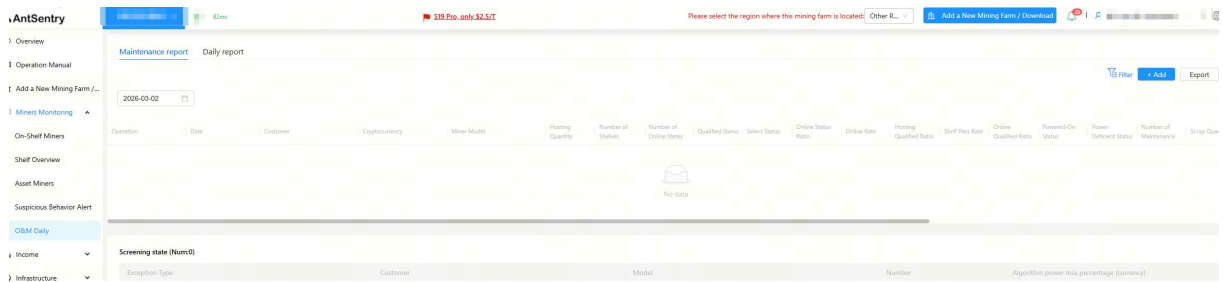
SSH suspicious behavior records can be processed in batches.



3.4 Daily Operation and Maintenance Report

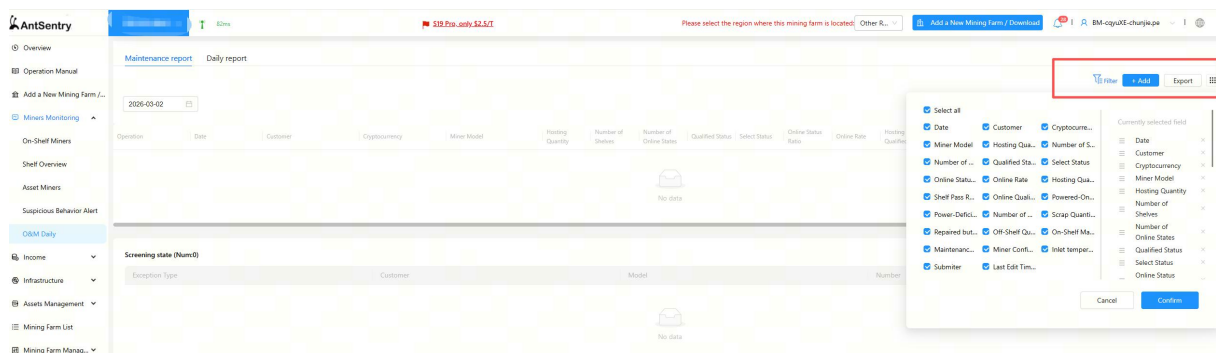
3.4.1 View the daily operation report

The system provides comprehensive data for mining rigs from the previous day, primarily tracking operational status including: cryptocurrency type, model, custody count, listed count, online status, qualified status, screening status, custody online rate, listed online rate, custody qualification rate, listed qualification rate, online qualification rate, power-on status, power-deficient status, maintenance status, repaired but not listed, daily listed count, listed maintenance count, completed repairs, rig configuration, intake air temperature, data reporter, and reporting time. The custody count is calculated as: online status + maintenance status + power-deficient status.



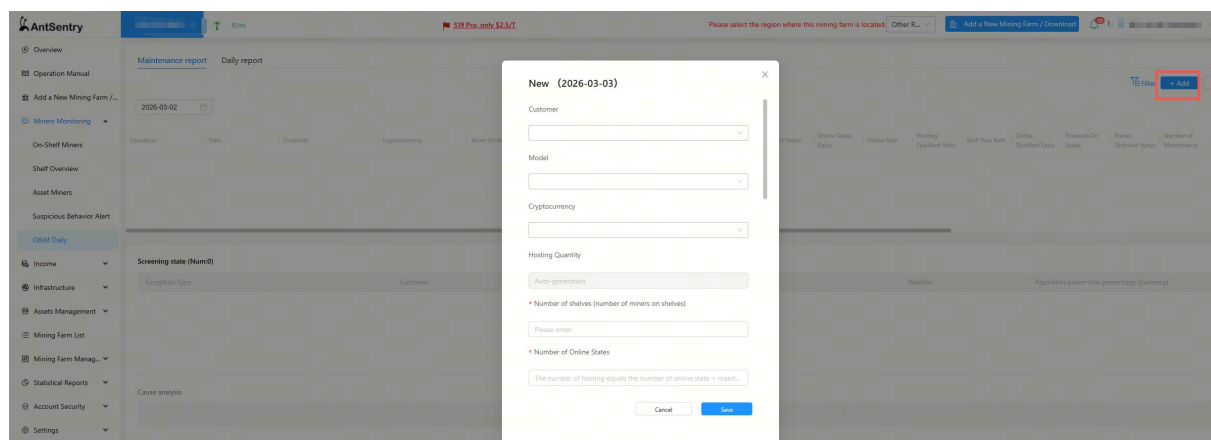
3.4.2 Basic Functions

The operation and maintenance report also provides the same basic functions as the mining machines listed in 3.1, including filtering, adding, exporting, list display, and sorting.



3.4.3 Modify the daily operation report

1. Click any blank line to manually edit the previous day's mining machine data, including: total units in operation, online status, qualified status, filtered status, decommissioned units, powered units, power-deficient units, maintenance units, repaired units not in operation, daily decommissioned units, maintenance units in operation, completed repairs, and air intake temperature of mining machine configurations.



- Click the edit button at the bottom to manually add anomaly details, root cause analysis, solutions, responsible personnel, and estimated resolution time for filtered mining machines.

The screenshot shows the AntSentry web application interface. On the left is a navigation menu with categories like Overview, Operation Manual, Add a New Mining Farm, Miners Monitoring, On-Shift Miners, Shift Overview, Asset Miners, Suspicious Behavior Alert, O&M Daily, Income, Infrastructure, Assets Management, Mining Farm List, Mining Farm Manag., Statistical Reports, Account Security, and Settings. The main content area displays several sections: 'Estimated resolution time', 'Maintenance state (Num0)' with sub-sections for 'Machine composition', 'Cause analysis', 'Solution', and 'Person liable', and 'Accident record' with a table header including 'Subject of accident', 'Accident type', 'Occurrence time', 'Customer', 'Machine model', 'Influence quantity', 'Accident cause', 'start/end', and 'other'. A red box highlights the 'Edit' button at the bottom right of the main content area.

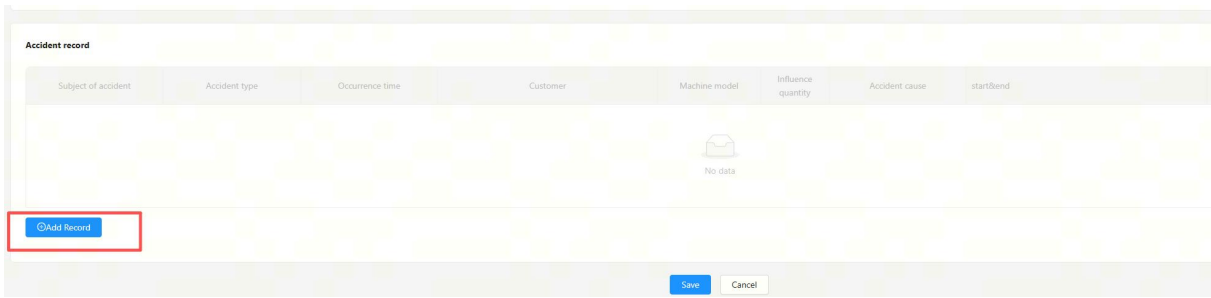
- For mining machines in power shortage, you can add the following details: cause analysis, solutions, responsible person, and estimated resolution time.

The screenshot shows a form titled 'Lack of electricity state (Num0)'. It contains several input fields for: 'Cause analysis', 'Solution', 'Person liable', and 'Estimated resolution time'.

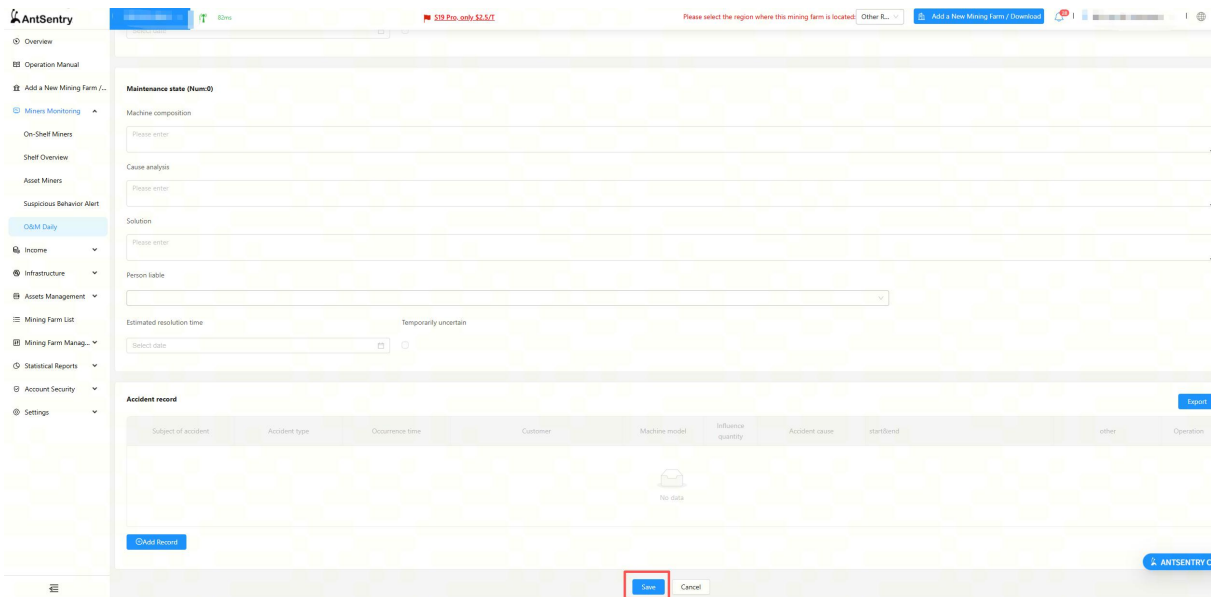
- For the maintenance status of mining machines, you can add machine configuration, cause analysis, solutions, responsible person, and estimated resolution time.

The screenshot shows a form titled 'Maintenance state (Num0)'. It contains several input fields for: 'Machine composition', 'Cause analysis', 'Solution', 'Person liable', and 'Estimated resolution time'.

- Add accident records;

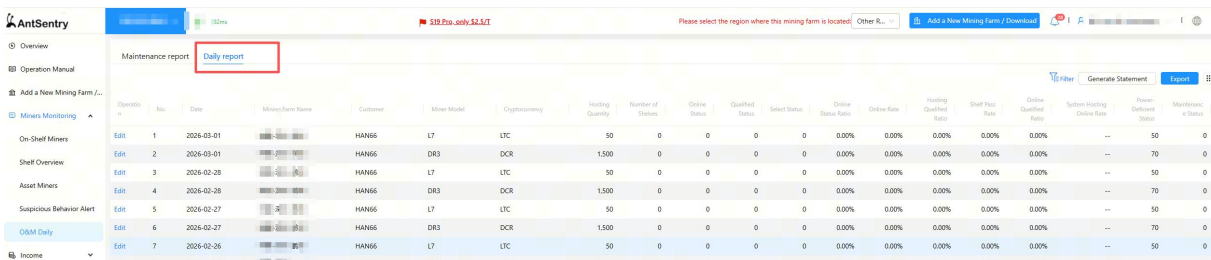


6. After completing steps 3-6, click Save.



3.4.4 Display daily operations report

1. The system displays: date, mining farm name, client, machine model, cryptocurrency, custody count, listing count, online status, qualified status, filtered status, custody online rate, listing online rate, custody qualification rate, listing qualification rate, online qualification rate, power shortage status, maintenance status, scrap count, custody theoretical computing power, listing theoretical computing power, online theoretical computing power, monitoring computing power, computing power variance rate, computing power efficiency, daily output, theoretical revenue, mining pool revenue, cloud computing revenue, actual revenue, revenue variance rate, theoretical electricity consumption, theoretical electricity cost, theoretical electricity cost ratio, variance analysis, corrective measures, estimated completion time, and responsible personnel information.



2. Click the current row data to view a single item.

ntny

Maintenance report **Daily report**

Operations

Operation No.	Date	Mining Farm Name	Customer	Miner Model	Operational Status	Select Status	Online Status Ratio	Online Rate
Edit 1	2026-03-01	[blurred]	HAN66	L7	0	0	0.00%	0.00%
Edit 2	2026-03-01	[blurred]	HAN66	DR3	0	0	0.00%	0.00%
Edit 3	2026-02-28	[blurred]	HAN66	L7	0	0	0.00%	0.00%
Edit 4	2026-02-28	[blurred]	HAN66	DR3	0	0	0.00%	0.00%
Edit 5	2026-02-27	[blurred]	HAN66	L7	0	0	0.00%	0.00%
Edit 6	2026-02-27	[blurred]	HAN66	DR3	0	0	0.00%	0.00%
Edit 7	2026-02-26	[blurred]	HAN66	L7	0	0	0.00%	0.00%
Edit 8	2026-02-26	[blurred]	HAN66	DR3	0	0	0.00%	0.00%
Edit 9	2026-02-25	[blurred]	HAN66	L7	0	0	0.00%	0.00%
Edit 10	2026-02-25	[blurred]	HAN66	DR3	0	0	0.00%	0.00%
Edit 11	2026-02-24	[blurred]	HAN66	L7	0	0	0.00%	0.00%
Edit 12	2026-02-24	[blurred]	HAN66	DR3	0	0	0.00%	0.00%
Edit 13	2026-02-23	[blurred]	HAN66	L7	0	0	0.00%	0.00%
Edit 14	2026-02-23	[blurred]	HAN66	DR3	0	0	0.00%	0.00%
Edit 15	2026-02-22	[blurred]	HAN66	L7	0	0	0.00%	0.00%
Edit 16	2026-02-22	[blurred]	HAN66	DR3	0	0	0.00%	0.00%
Edit 17	2026-02-21	[blurred]	HAN66	L7	0	0	0.00%	0.00%
Edit 18	2026-02-21	[blurred]	HAN66	DR3	0	0	0.00%	0.00%

select a row to click

View

Date: 2026-03-01

Mining Farm Name: [blurred]

客户: HAN66

Miner Model: L7

Cryptocurrency: LTC

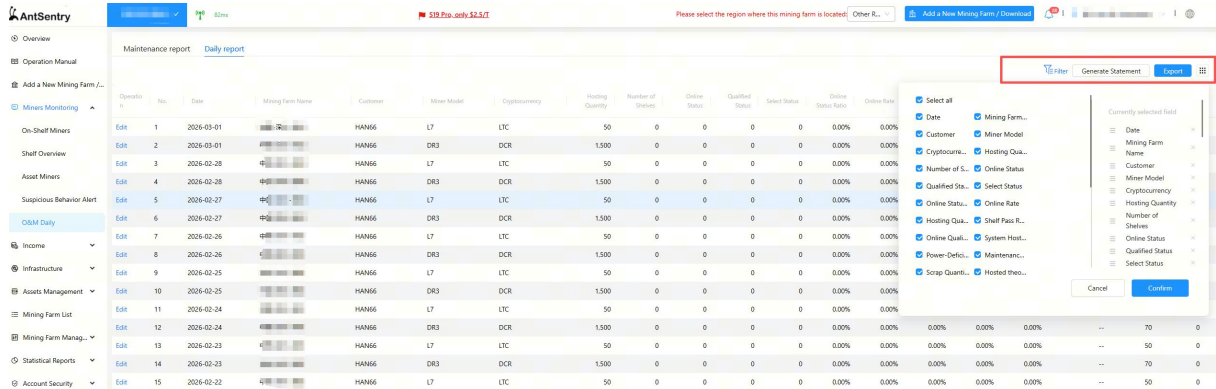
Hosting Quantity: 50

Confirm

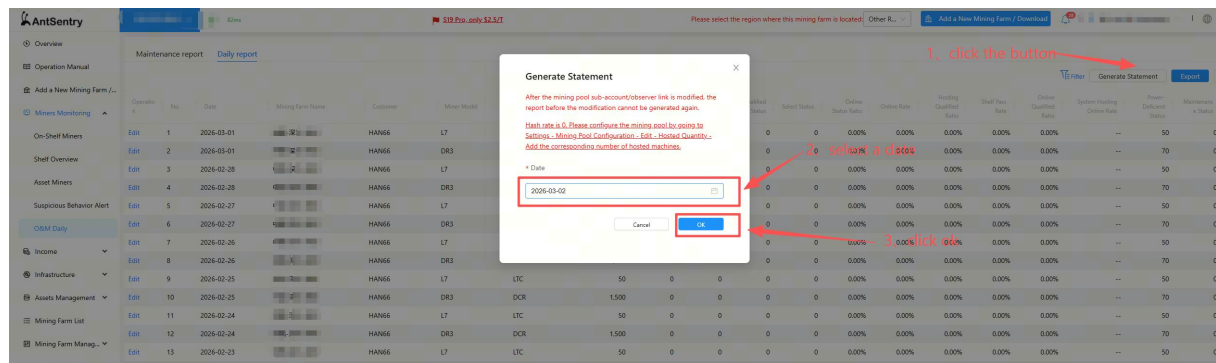
DCR 1,500 0 0 0 0 0.00% 0.00%

3.4.5 Basic Functions of the Daily Operation Report

It provides the same filtering information as before but does not offer modification or addition.



3.4.6 Generate Reports



3.4.7 Export Information

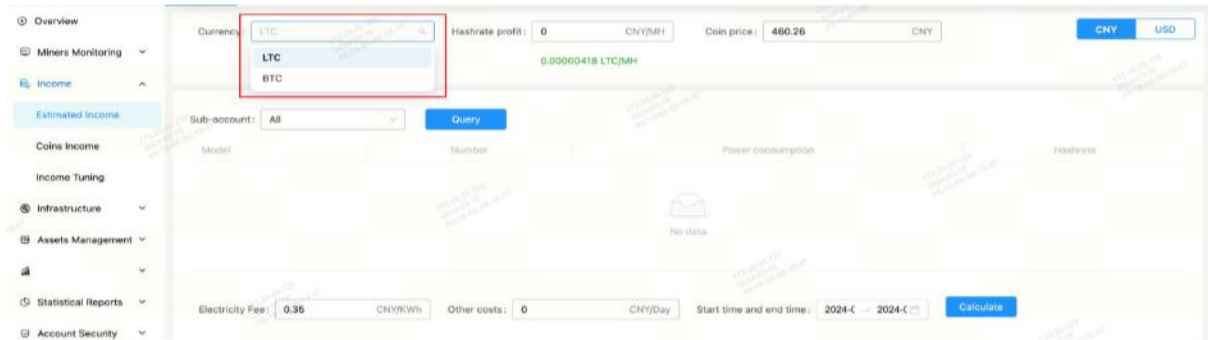


4. Mining revenue

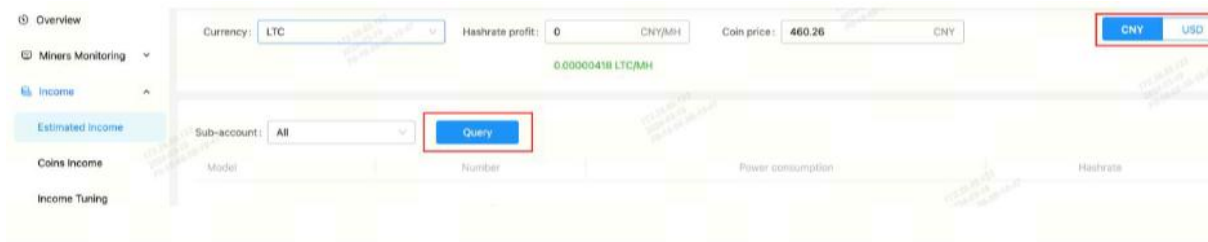
4.1 Revenue Forecast

4.1.1 View revenue forecast

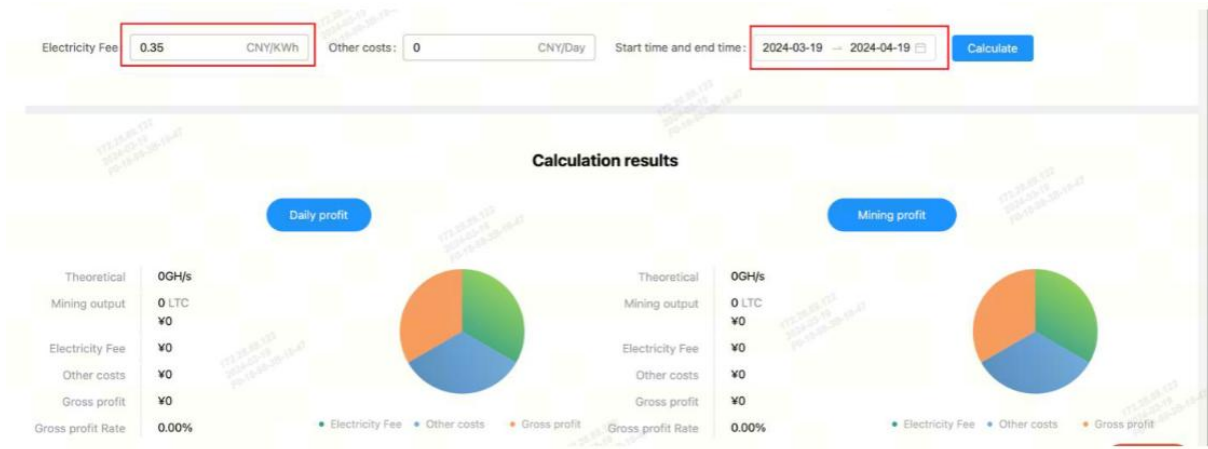
1. Select a currency;



2. Select RMB/USD and a sub-account, then click Query.



3. Enter the electricity price and date to calculate the profit.



4.2 Currency Income

4.2.1 View Daily Earnings

Operation No.	Date	Number of miners	Pool Income	MonitorSaming	Income difference	Electricity Fee	Daily Net Income
1	2024-03-18	985	¥ 0.00	¥ 0.00	0.00%	¥ 0.00	¥ 0.00
2	2024-03-17	985	¥ 0.00	¥ 0.00	0.00%	¥ 0.00	¥ 0.00
3	2024-03-16	985	¥ 0.00	¥ 0.00	0.00%	¥ 0.00	¥ 0.00
4	2024-03-15	1002	¥ 0.00	¥ 20	-100.00%	¥ 0.00	¥ 0.00
5	2024-03-14	983	¥ 0.00	¥ 56	-100.00%	¥ 0.00	¥ 0.00
6	2024-03-13	981	¥ 0.00	¥ 29	-100.00%	¥ 0.00	¥ 0.00
7	2024-03-12	934	¥ 0.00	¥ 9	-100.00%	¥ 0.00	¥ 0.00

4.3 Automatic Profit Optimization

4.3.1 Turning On and Off Automatic Tuning

Click Auto-Tune to enable automatic optimization.

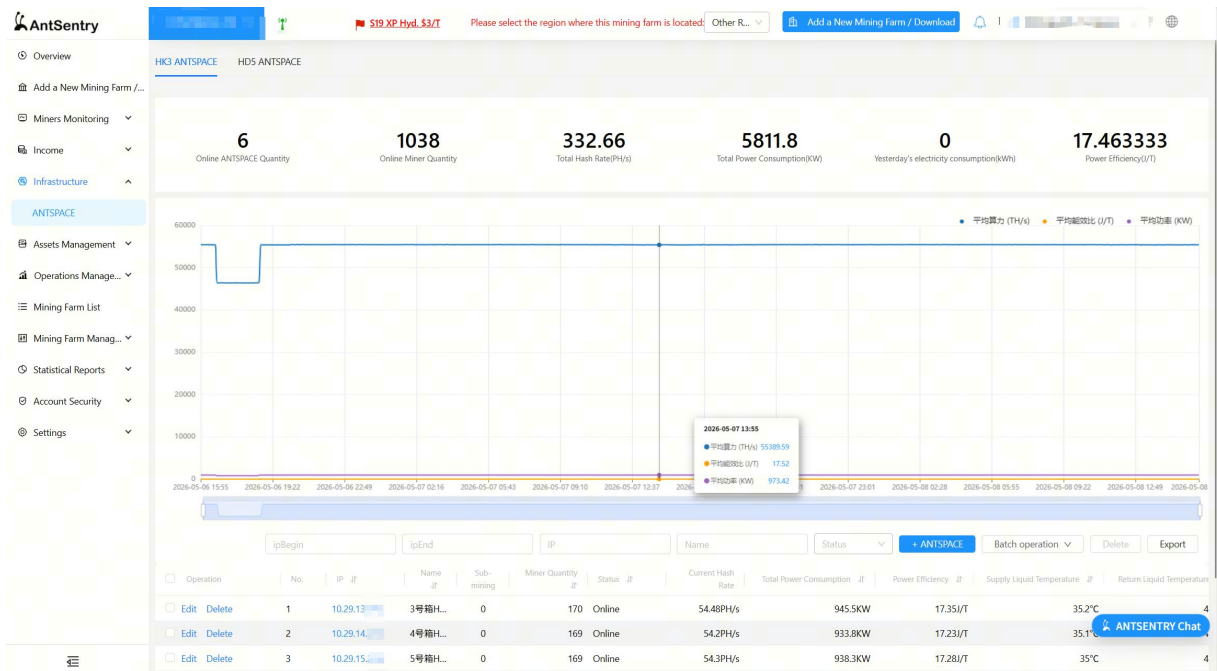


5. Infrastructure

5.1 ANTSPACE

At present, ANTSPACE is available in two models, namely HK3 and HD5, as shown in the figure below.

The procedures for adding, editing, deleting, searching, and exporting are identical for both HK3 and HD5 ANTSPACE, and therefore will not be described twice.



5.1.1 Add ANTSPACE

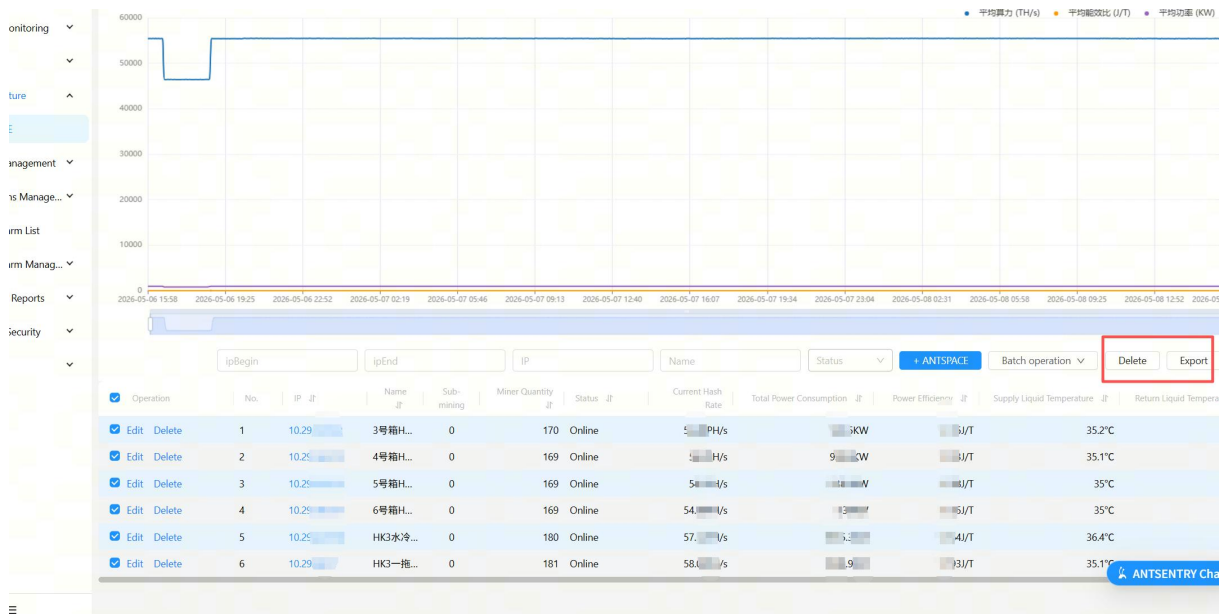
The screenshot shows the 'New ANTSPACE' dialog box overlaid on the dashboard. The dialog box contains the following fields and controls:

- Name:** A text input field.
- Sub-mining:** A dropdown menu.
- IP:** A text input field.
- Whether to add a scanning IP segment:** A toggle switch, currently turned on.
- Notes:** A text area for additional information.
- Buttons:** 'Cancel' and 'OK' buttons at the bottom.

In the background, the dashboard shows the same metrics and chart as in the previous screenshot. A red box highlights the '+ ANTSPACE' button in the bottom right corner of the dashboard.

5.1.2 Export and Delete

Selected items can be exported or deleted in batches.

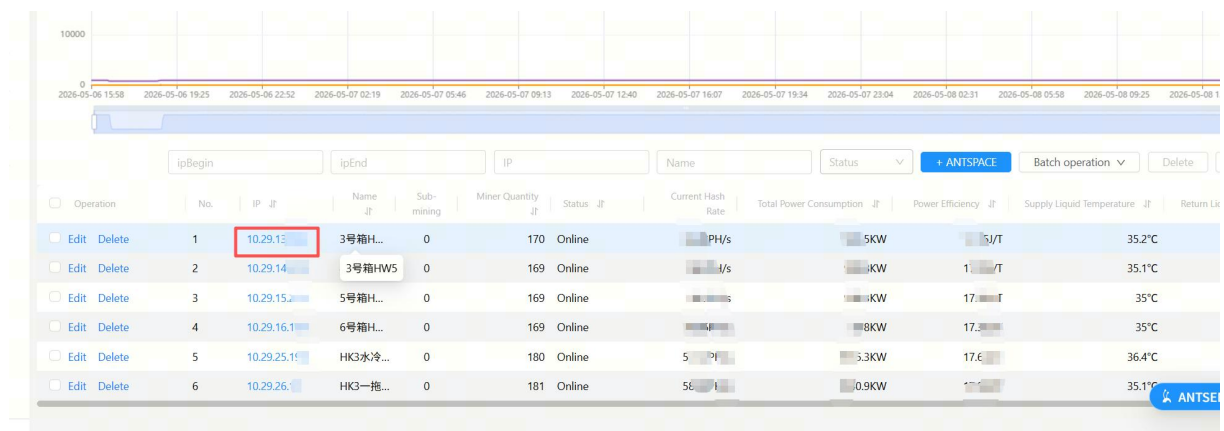


5.1.3 Edit

		ipBegin	ipEnd	IP	Name	Status	+ ANTSPACE	Batch operation	Delete	Export		
<input checked="" type="checkbox"/>	Operation	No.	IP	Name	Sub-mining	Miner Quantity	Status	Current Hash Rate	Total Power Consumption	Power Efficiency	Supply Liquid Temperature	Return Liquid Temperature
<input checked="" type="checkbox"/>	Edit Delete	1	10.29.1.2	3号箱H...	0	170	Online	5.1PH/s	5.5KW	13.1J/T	35.2°C	
<input checked="" type="checkbox"/>	Edit Delete	2	10.29.1.3	4号箱H...	0	169	Online	5.1PH/s	9.8KW	13.1J/T	35.1°C	
<input checked="" type="checkbox"/>	Edit Delete	3	10.29.1.4	5号箱H...	0	169	Online	5.1PH/s	3.3KW	17.6J/T	35°C	
<input checked="" type="checkbox"/>	Edit Delete	4	10.29.1.6	6号箱H...	0	169	Online	5.1PH/s	8KW	17.6J/T	35°C	
<input checked="" type="checkbox"/>	Edit Delete	5	10.29.2.5	HK3水冷...	0	180	Online	5.1PH/s	3.3KW	17.6J/T	36.4°C	
<input checked="" type="checkbox"/>	Edit Delete	6	10.29.2.6	HK3一拖...	0	181	Online	5.1PH/s	9KW	17.6J/T	35.1°C	

5.1.4 View Details

1. Click the IP address to view detailed information.



2. Three types of information are available: miner list, data curves, and cooling system.

HK3 ANTSPACE | HD5 ANTSPACE

HK3 ANTSPACE > [IP Address]

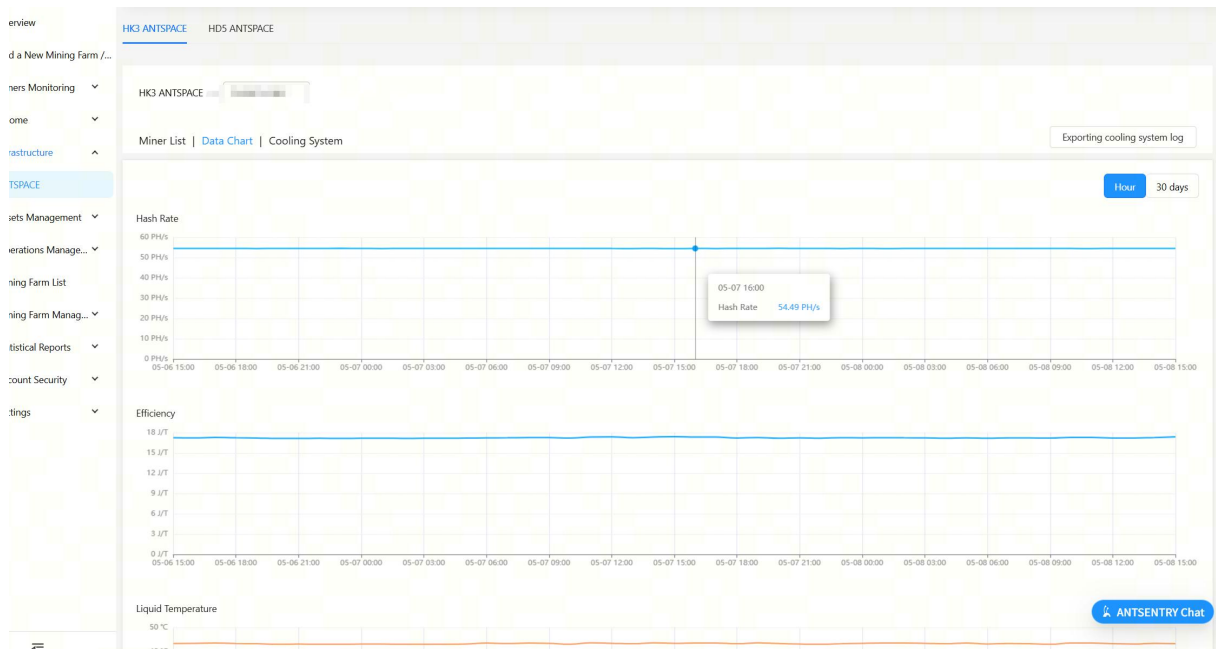
Miner List | Data Chart | Cooling System Exporting cooling system log

ipBegin [] ipEnd [] IP [] Miner Model [] Software Version []

No.	IP	Miner Model	Software Version	Mining Time	Current Hash Rate	Average Hash Rate	PCB Highest Temperature	Chip Highest Temperature
1	10.29.13.110	Antminer S21e Hyd.		137h44m55s	321.83 TH/s	321.95 TH/s	53°C	
2	10.29.13.131	Antminer S21e Hyd.	2025-07-01	137h43m14s	321.91 TH/s	321.5 TH/s	54°C	
3	10.29.13.140	Antminer S21e Hyd.	2025-07-01	137h43m1s	322.02 TH/s	323 TH/s	53°C	
4	10.29.13.150	Antminer S21e Hyd.		137h44m44s	324.6 TH/s	322.13 TH/s	54°C	
5	10.29.13.161	Antminer S21e Hyd.	2025-07-01	137h43m13s	318.65 TH/s	320 TH/s	53°C	
6	10.29.13.236	Antminer S21e Hyd.		137h43m54s	320.9 TH/s	320.69 TH/s	53°C	
7	10.29.13.94	Antminer S21e Hyd.		137h44m15s	321.7 TH/s	322.74 TH/s	53°C	
8	10.29.13.123	Antminer S21e Hyd.		137h44m26s	321.55 TH/s	319.14 TH/s	54°C	
9	10.29.13.136	Antminer S21e Hyd.		137h44m31s	314.52 TH/s	317.52 TH/s	53°C	
10	10.29.13.173	Antminer S21e Hyd.	2025-07-01	137h43m8s	318.82 TH/s	319.14 TH/s	55°C	
11	10.29.13.71	Antminer S21e Hyd.	2025-07-01	137h42m20s	317.94 TH/s	319.72 TH/s	52°C	
12	10.29.13.73	Antminer S21e Hyd.		137h44m17s	325.64 TH/s	320.99 TH/s	54°C	
13	10.29.13.89	Antminer S21e Hyd.	2025-07-01	137h42m44s	317.37 TH/s	317.53 TH/s	55°C	
14	10.29.13.93	Antminer S21e Hyd.		137h44m17s	317.46 TH/s	323.04 TH/s	54°C	
15	10.29.13.198	Antminer S21e Hyd.	2025-07-01	137h42m34s	327.37 TH/s	321.53 TH/s	54°C	
16	10.29.13.69	Antminer S21e Hyd.		137h44m22s	321.53 TH/s	321.49 TH/s	54°C	
17	10.29.13.156	Antminer S21e Hyd.		137h44m46s	320.00 TH/s	316.77 TH/s	54°C	

ANTSENTRY Chat

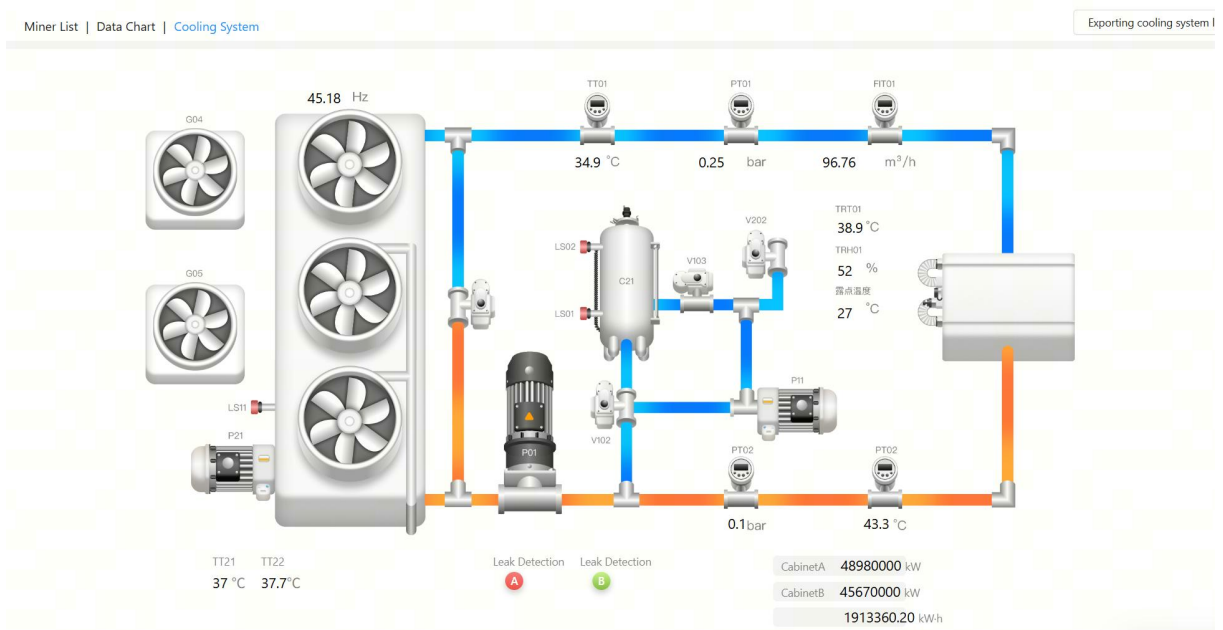
3. For data curves, the time dimension can be set to hourly or daily.



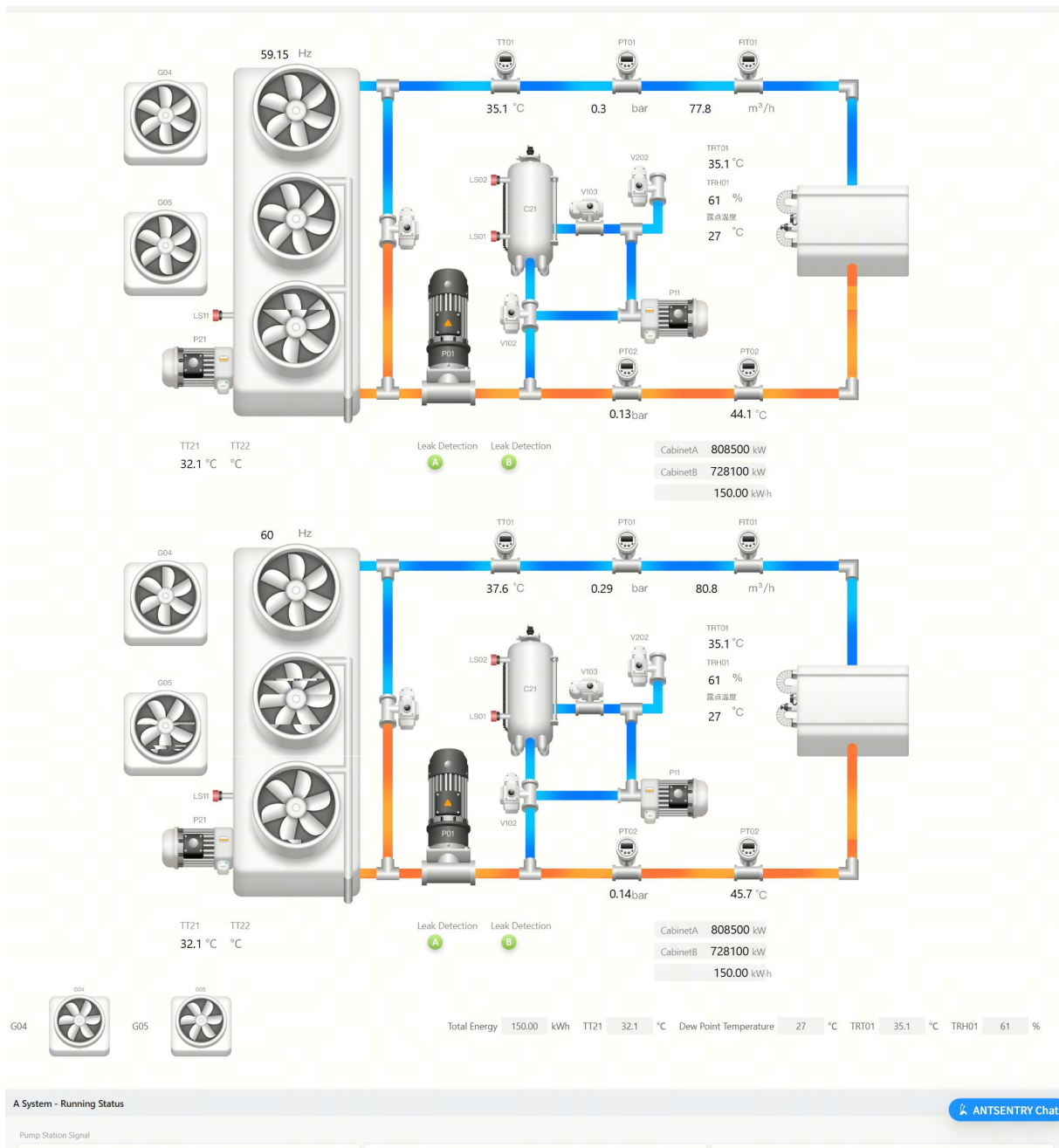
4. Cooling system:

a. Logs can be exported.

PLC display panel of
HK3



PLC display panel of HD5: the upper panel is for Cooling System A, and the lower panel is for Cooling System B.



b. View operating status, operating parameters, and related information.
 Operating status, operating parameters, and related information of
 HK3

Running Status

Circulation Pump	Running ●	Ventilation Fan1	Running ●	Ventilation Fan2	Running ●
Sprinkler Pump	Running ●	Replenish Pump	Stop ●	Cooling Tower Fan 1	Running ●
Cooling Tower Fan 2	Running ●	Cooling Tower Fan 3	Running ●		

Cooling failure panel

PSU	Running ●	Low liquid level	Running ●	Leakage	Running ●
High liquid supply temperature	Running ●	High liquid supply pressure	Running ●	Low return pressure	Running ●
Low fluid flow	Running ●	Low cooling tower liquid level	Running ●		

Running Parameter

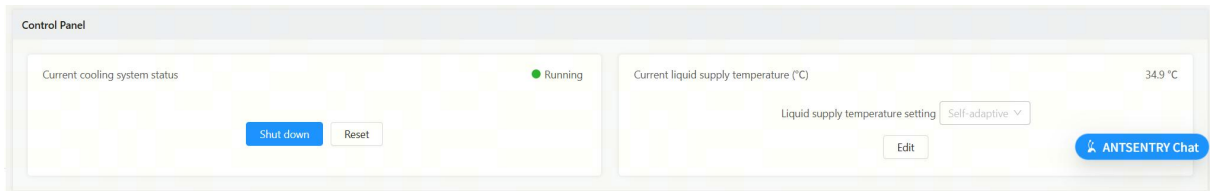
Supply Liquid Pressure 0.25MPa	Return Liquid Pressure 0.1MPa	Cooling Tower Intake Air Temperature 37.7°C	Supply Liquid Flowrate 96.76m³/h
Container Interior Temperature 38.9°C	Container Interior Humidity 52%	Distribution Box I Power 489800w	Distribution Box II Power 456700w

ANTSENTRY Chat

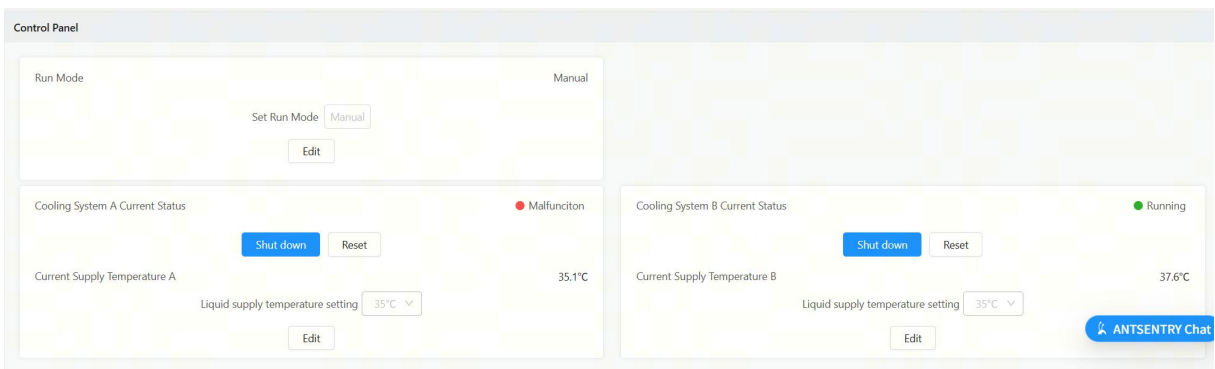
Operating status, operating parameters, and related information of HD5

c. Control operations can be performed via the control panel.

Control panel of
HK3

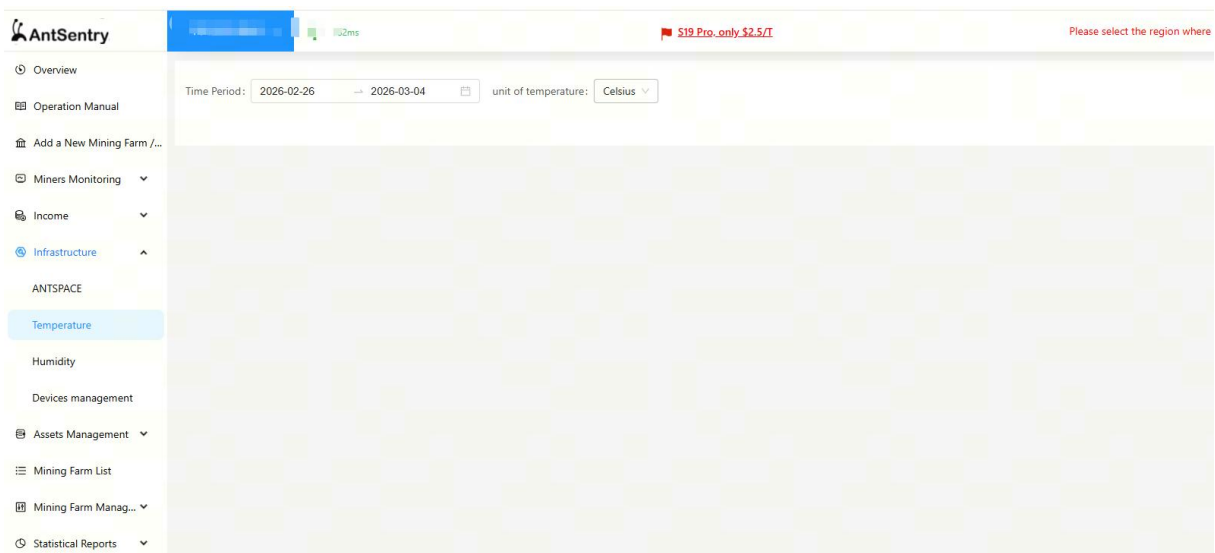


Control panel of
HD5



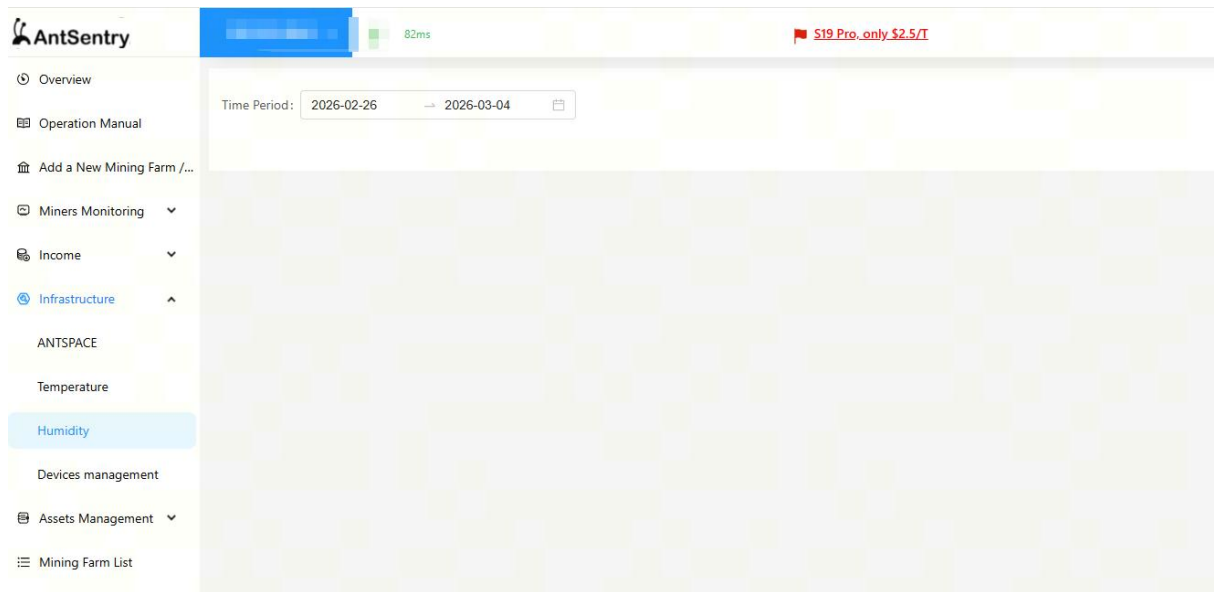
5.2 temperature

5.2.1 Temperature Curve Check



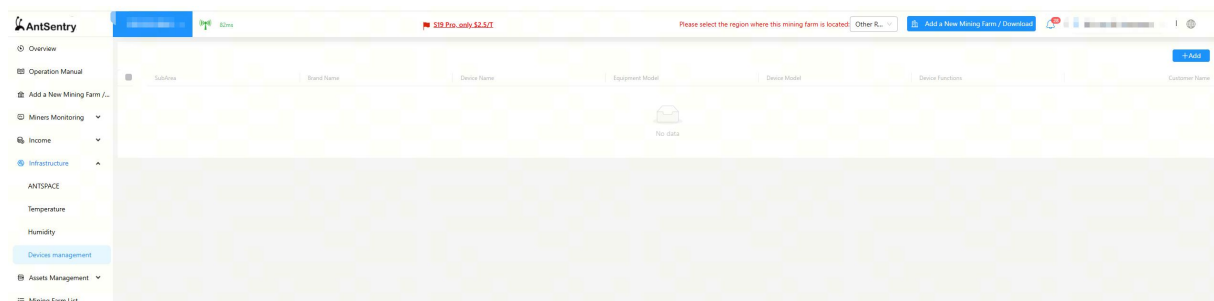
5.3 Humidity

5.3.1 Viewing the humidity curve

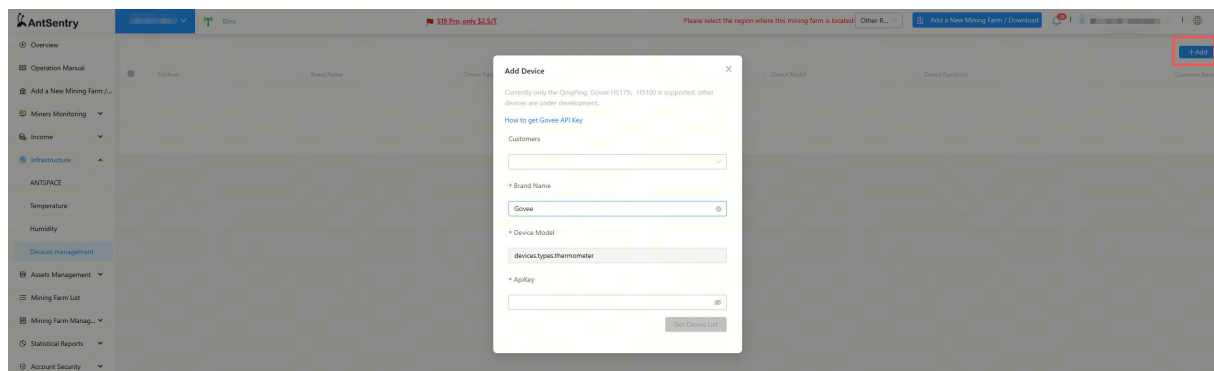


5.4 Equipment Management

5.4.1 Equipment List

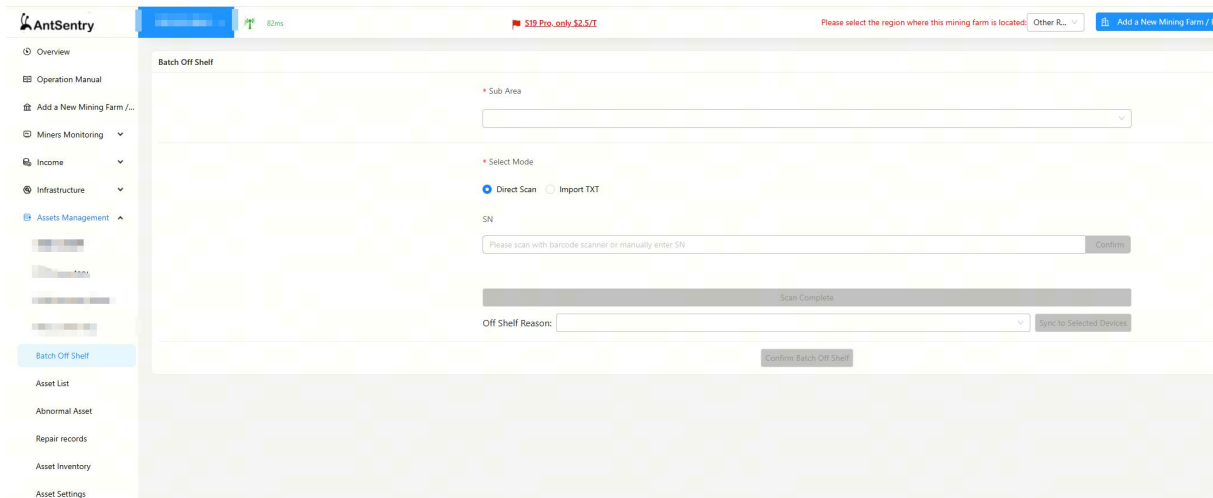


5.4.2 New Equipment



6. Asset Management

6.1 Batch removal of mining machines



6.2 Asset List

6.2.1 Display Asset List

The list shows the relationship between each asset and its shelf location.

Operation	No.	Asset Name	SN	Asset Model	Asset Brand	Asset Type	Asset Stat...	Factory	Shelf	layer	column	Remarks
<input type="checkbox"/> Edit Delete	1	裴春杰test	xxxxx-9696365aaaa	STY 18	我的资产	矿机	正常	矿区1	货架1	1	1	
<input type="checkbox"/> Edit Delete	2	我的资产	xxxxdawdwd333		蚂蚁矿机	矿机		矿区1	货架1		11	无
<input type="checkbox"/> Edit Delete	3	我的资产	xxxxdawdwd222		蚂蚁矿机	矿机		矿区1	货架1		11	无

6.2.2 Basic Operations

Support filtering, adding, importing, exporting, modifying, and deleting.

Operation	No.	Asset Name	SN	Asset Model	Asset Brand	Asset Type	Asset Stat...	Factory	Shelf	layer	column	Remarks
<input type="checkbox"/> Edit Delete	1	裴春杰test	xxxxx-9696365aaaa	STY 18	我的资产	矿机	正常	矿区1	货架1	1	1	
<input type="checkbox"/> Edit Delete	2	我的资产	xxxxdawdwd333		蚂蚁矿机	矿机		矿区1	货架1		11	无
<input type="checkbox"/> Edit Delete	3	我的资产	xxxxdawdwd222		蚂蚁矿机	矿机		矿区1	货架1		11	无
<input type="checkbox"/> Edit Delete	4	裴春杰test	112231	STY 18	我的资产	矿机	正常	矿区test	货架test		0	

6.2.3 Shelf display of asset information

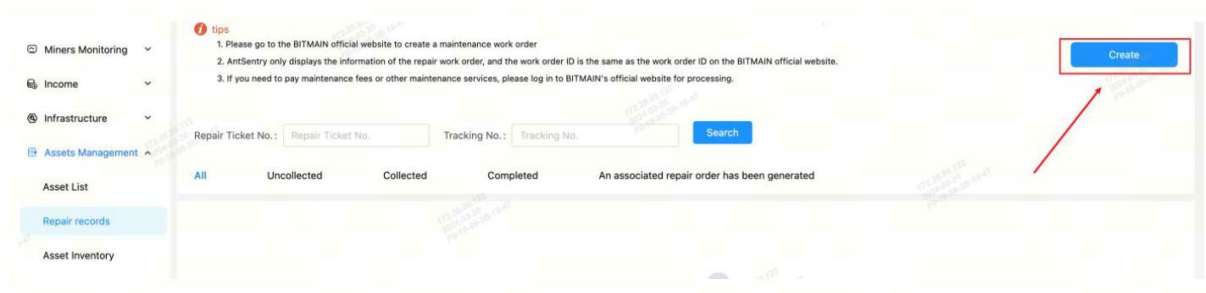
Clicking the shelf displays asset details, with the same switching mechanism as the mining machine display mode in 3.1.5.

Operation	No.	Asset Name	SN	Asset Model	Asset Brand	Asset Type	Asset Stat...	Factory	Shelf	layer	column	Remarks
Edit Delete	1	裴春杰test	xxxxx-9696365aaaa	STY 18	我的资产	矿机	正常	矿区1	货架1	1	1	
Edit Delete	2	我的资产	xxxxdawdawd333		蚂蚁矿机	矿机		矿区1	货架1		11	无
Edit Delete	3	我的资产	xxxxdawdawd222		蚂蚁矿机	矿机		矿区1	货架1		11	无

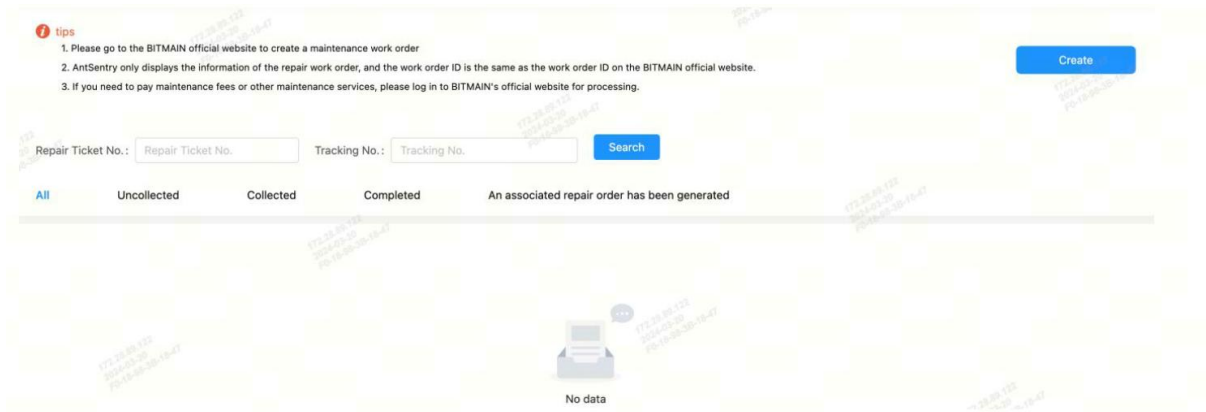
6.3 Maintenance Records

6.3.1 Create a ticket

Click 'Create Ticket' to access Bitmain's official website for ticket creation.



6.3.2 View ticket information



6.4 Asset Inventory

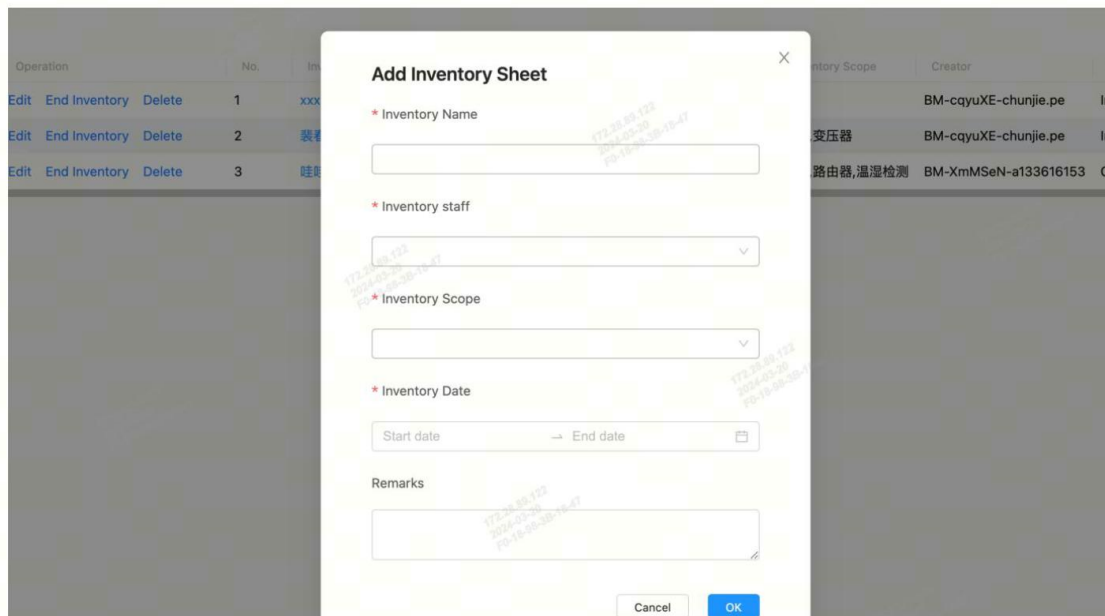
6.4.1 Display asset inventory records

Display asset inventory records, which can be filtered and added.



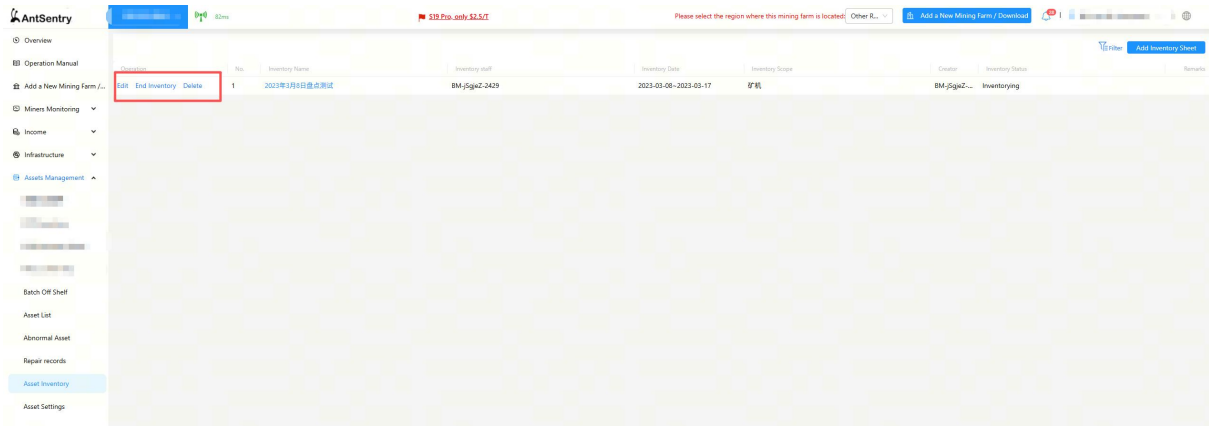
6.4.2 New Asset Inventory

When adding an asset inventory, you can select inventory information, including the name, personnel, scope, date, and notes.



6.4.3 Inventory Counting

You can edit the current inventory list, delete it, or end the inventory.



6.4.4 Inventory Details

1. Click to view the detailed information of this inventory.

Operation	No.	Invent...	Inventory staff	Inventory Date	Inventory Scope	Creator	Inventory Status	Re...
Edit End Inventory Delete	1	xxx	haipeng	2023-03-15-2023-03-24	矿机	BM-cayuXE-chunjie.pe	Inventorying	
Edit End Inventory Delete	2	裴春杰test	wuwei	2023-03-16-2023-03-25	矿机,变压器	BM-cayuXE-chunjie.pe	Inventorying	
Edit End Inventory Delete	3	哇哇哇哇	测试用户,BM-DGzrPo-6965,	2023-02-01-2023-02-09	网线,路由器,温湿度检测	BM-XmMSeN-a133616153	Completed (Inventory Balance)	

2. The inventory details include two parts: inventory progress and inventory list information. Inventory progress displays the inventory information for each asset.

It also provides filtering, inventory entry, import, and export functions.



3. Inventory details show the current inventory information.

Inventory sheet information

* Inventory Name: xxx

* Inventory staff: haipeng

* Inventory Scope: 矿机

* Inventory Date: 2023-03-15 → 2023-03-24

Remarks: 0

4. This page allows you to switch to the same mining rig shelf information as in 3.1.5.

< Return **Inventory progress** Inventory sheet information

Inventory Name: xxx

Inventory staff: haipeng

Inventory Scope: 矿机

Inventory Date: 2023-03-15 → 2023-03-24

On the shelf miners 0 | Online 0 | Offline 0 | Qualified 0 | Zero Hashrate 0 | Unqualified 0 | Can't started 0

Filter | Exporting empty slots | Shelf

On the shelf miners 0 | Online 0 | Offline 0 | Qualified 0 | Zero Hashrate 0 | Unqualified 0 | Can't started 0

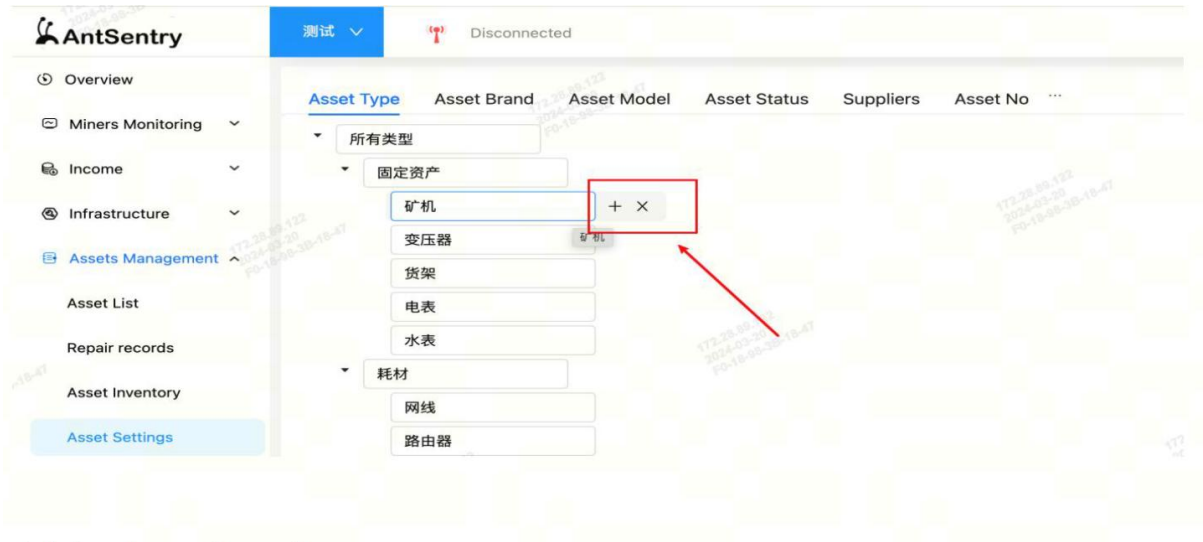
Filter | Exporting empty slots | Shelf

正确	非法子网	非法子网掩码	矿区test
<p>测试</p> <p>Model</p> <p>Qualified 0</p> <p>Offline No 0</p> <p>Abnormal No 0</p> <p>Number of slots/Number of vacant slots 3 / 3</p>	<p>掩码</p> <p>Model</p> <p>Qualified 0</p> <p>Offline No 0</p> <p>Abnormal No 0</p> <p>Number of slots/Number of vacant slots 3 / 3</p>	<p>test</p> <p>Model</p> <p>Qualified 0</p> <p>Offline No 0</p> <p>Abnormal No 0</p> <p>Number of slots/Number of vacant slots 3 / 3</p>	<p>货架test</p> <p>Model</p> <p>Qualified 0</p> <p>Offline No 0</p> <p>Abnormal No 0</p> <p>Number of slots/Number of vacant slots 12801 / 12801</p>
addShelf	minerTest	aa	矿区1
<p>shelf</p> <p>Model</p> <p>Qualified 0</p> <p>Offline No 0</p> <p>Abnormal No 0</p> <p>Number of slots/Number of vacant slots 3 / 3</p>	<p>shelfTest</p> <p>Model</p> <p>Qualified 0</p> <p>Offline No 0</p> <p>Abnormal No 0</p> <p>Number of slots/Number of vacant slots 2 / 2</p>	<p>aaa</p> <p>Model</p> <p>Qualified 0</p> <p>Offline No 0</p> <p>Abnormal No 0</p> <p>Number of slots/Number of vacant1 / slots 1</p>	<p>货架1</p> <p>Model S21 HYD.(1)</p> <p>Qualified 0</p> <p>Offline No 1</p> <p>Abnormal No 0</p> <p>Number of slots/Number of vacant slots 2 / 1</p>

6.5 Asset Setup

6.5.1 Types of Assets

View existing asset types and perform add, delete, modify, or search operations.



6.5.2 Asset Brands

Click to view asset brand information and perform add, delete, modify, or search operations.

Operation	No.	Asset Type	Brand Name	Status
Edit Delete	1	矿机	我的资产	valid
Edit Delete	2	变压器	我的盘点	valid
Edit Delete	3	路由器	蚂蚁矿机	valid

6.5.3 Asset Model

Click to view asset type information. Operations include adding, deleting, modifying, and querying.

Operation	No.	Asset Brand	Model Name	Status
Edit Delete	1	我的盘点	STY 19	valid
Edit Delete	2	我的资产	STY 18	valid

6.5.4 Asset Status, Suppliers

Click to view asset status, suppliers, and add, delete, modify, or query as above.

Asset Type	Asset Brand	Asset Model	Asset Status	Suppliers	Asset No	Status
Operation	No.	Status Name				
Edit	Delete	1	下架维修			valid
Edit	Delete	2	666			valid

Asset Type	Asset Brand	Asset Model	Asset Status	Suppliers	Asset No	Status
Operation	No.	Supplier Name	Supplier Code	Supplier Address		
Edit	Delete	1	百度	852056	广东省深圳市	valid
Edit	Delete	2	腾讯	w10000	深圳	invalid

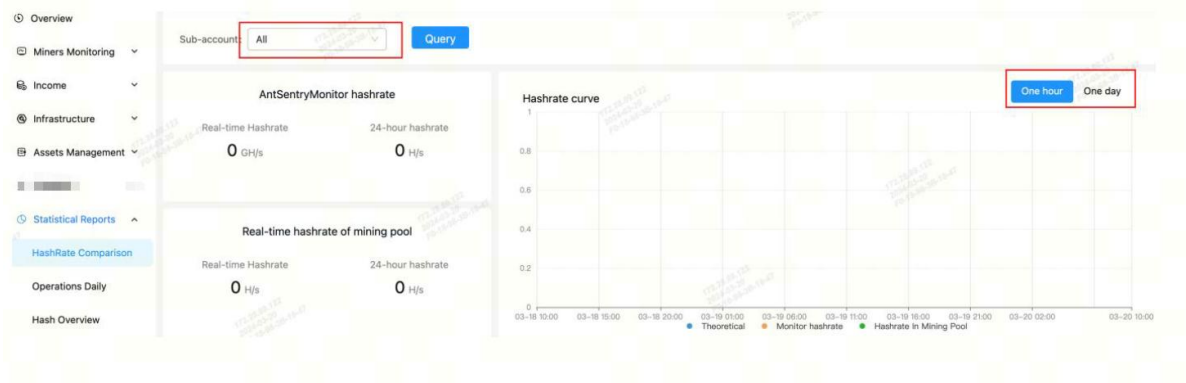
6.6 Check the shelf life

7. Statistical Reports

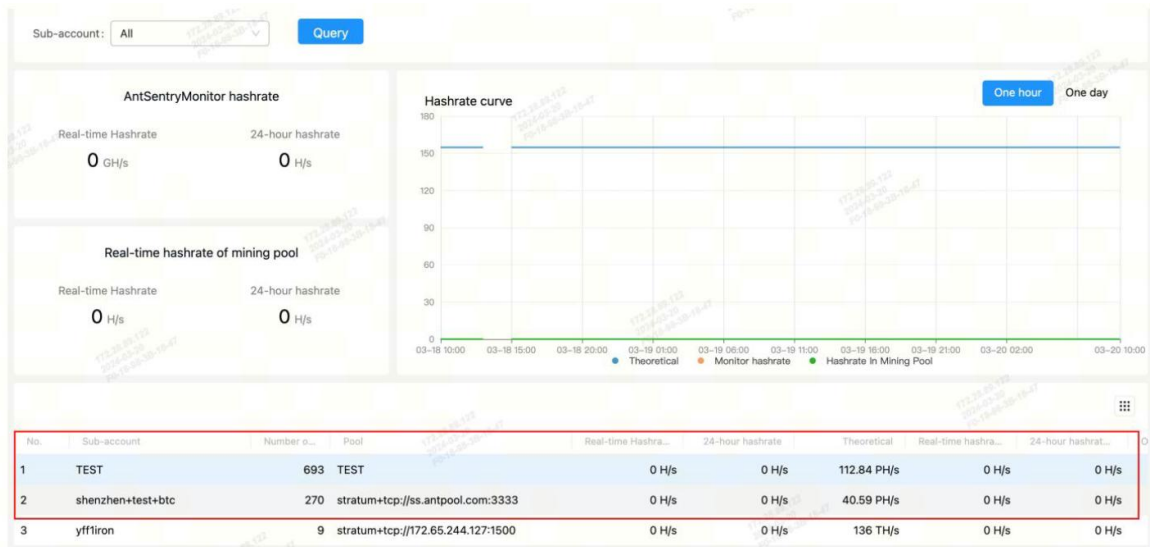
7.1 Comparison of Computing Power

7.1.1 Computing Power Information View

1. You can compare theoretical, monitored, and pool mining power for a mining farm or a sub-account.

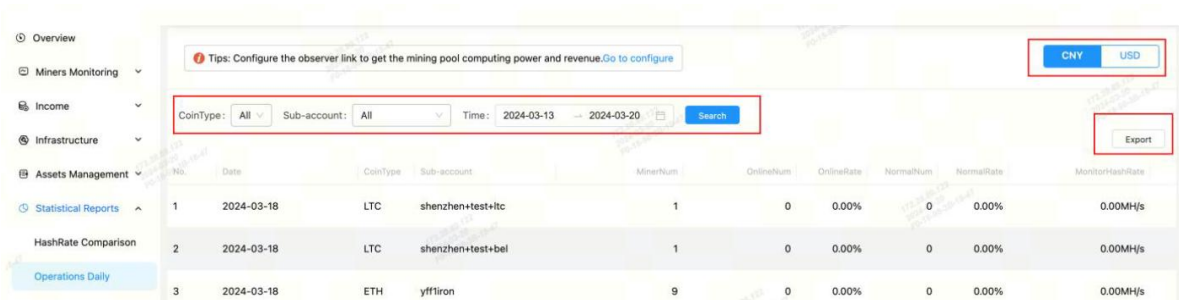


2. The following displays the computing power information for each sub-account.



7.2 Daily Operation Report

View daily operation reports, which can be filtered, exported, and converted to different currencies.



7.3 Overview of Computing Power

View information about computing power, including serial number, date, IP, model, customer, theoretical computing power, daily computing power (0 points), daily computing power (8 points), and computing power curve. View information about computing power, including serial number, date, IP, model, customer, theoretical computing power, daily computing power (0 points), daily computing power (8 points), and computing power curve.

No.	Date	IP	Model	Customer	Theoretical	24-hour hashrate (0000)	28-hour hashrate (0000)
1	2026-03-03	10.76	Antminer S21e...		310000 GH/s	315905.22 GH/s	315905.22 GH/s
2	2026-03-03	10.76	Antminer S21+...		395000 GH/s	404053.03 GH/s	404053.03 GH/s
3	2026-03-03	10.76	Antminer S21+...		338000 GH/s	351657.44 GH/s	351657.44 GH/s
4	2026-03-03	10.76	Antminer S21+...		355000 GH/s	368147.84 GH/s	368147.84 GH/s
5	2026-03-03	10.76	Antminer H6H...		288000 GH/s	301944.41 GH/s	301944.41 GH/s
6	2026-03-03	10.76	Antminer H6H...		288000 GH/s	301944.41 GH/s	301944.41 GH/s
7	2026-03-03	10.76	Antminer S21+...		338000 GH/s	350826.13 GH/s	350826.13 GH/s
8	2026-03-03	10.76	Antminer S21+...		338000 GH/s	351878.59 GH/s	351878.59 GH/s
9	2026-03-03	10.76	Antminer S21e...		310000 GH/s	318740.63 GH/s	318740.63 GH/s
10	2026-03-03	10.76	Antminer S21+...		358000 GH/s	368010.25 GH/s	368010.25 GH/s
11	2026-03-03	10.76	Antminer S21+...		358000 GH/s	368004.03 GH/s	368004.03 GH/s
12	2026-03-03	10.76	Antminer H6H...		293000 GH/s	306938.97 GH/s	306938.97 GH/s
13	2026-03-03	10.76	Antminer S21+...		338000 GH/s	351977.63 GH/s	351977.63 GH/s
14	2026-03-03	10.76	Antminer H6H...		288000 GH/s	291014.72 GH/s	291014.72 GH/s
15	2026-03-03	10.76	Antminer H6H...		288000 GH/s	293045.41 GH/s	293045.41 GH/s
16	2026-03-03	10.76	Antminer S21+...		395000 GH/s	404005.13 GH/s	404005.13 GH/s
17	2026-03-03	10.76	Antminer H6H...		288000 GH/s	293024.53 GH/s	293024.53 GH/s
18	2026-03-03	10.76	Antminer S21+...		358000 GH/s	368364.88 GH/s	368364.88 GH/s
19	2026-03-03	10.76	Antminer H6H...		293000 GH/s	306859.84 GH/s	306859.84 GH/s

7.4 Classification of Aircraft Models

7.4.1 Types of Mining Machines

Classify and summarize mining machine information by type, mining pool, and mining pool & sub-account.

Model	Pool	Brand	Model	Total	Qualifie...	Offline No	Abnorm...	Real-time Hash...	Monitoring time(local t...
Antminer	S19 Hydro-145T			3	0	3	0	0 GH/s	2024-03-15 19:23:14
Antminer	unknown			427	0	427	0	0 GH/s	2024-03-15 19:28:18
Antminer	S19 XP Hyd.-250T			66	0	66	0	0 GH/s	2024-03-15 19:28:15
Antminer	S19 Hydro-151.5T			2	0	2	0	0 GH/s	2024-03-15 19:23:04
Antminer	S21 Hyd.-286T			4	0	4	0	0 GH/s	2024-03-15 19:27:28
Antminer	T19 Hydro-138.5T			10	0	10	0	0 GH/s	2024-03-15 19:27:35
Antminer	S21 Hyd.-302T			9	0	9	0	0 GH/s	2024-03-15 19:28:16

7.4.2 Mine Pools

Pool	Total	Qualified No	Offline No	Abnormal No	Real-time Hashrate	Monitoring time(local time)
TEST	693	0	693	0	0 GH/s	2024-03-15 19:23:06
stratum+tcp://...	9	0	9	0	0 GH/s	2024-03-15 19:23:06

7.4.3 Mining Pool & Sub-Account

Pool	Sub-account	Total	Qualifie...	Offline No	Abnorm...	Real-time Hashr...	Monitoring time(local t...
		0	0	0	0	0 GH/s	2023-10-21 15:28:25
stratum+tcp://...	shenzh...	7	0	7	0	0 GH/s	2024-01-15 15:31:26
stratum+tcp://10...	TEST	1	0	1	0	0 GH/s	2024-02-28 19:34:17

8. Account Security

8.1 Customer Management

8.1.1 View customer information

View all customer information for this mine.

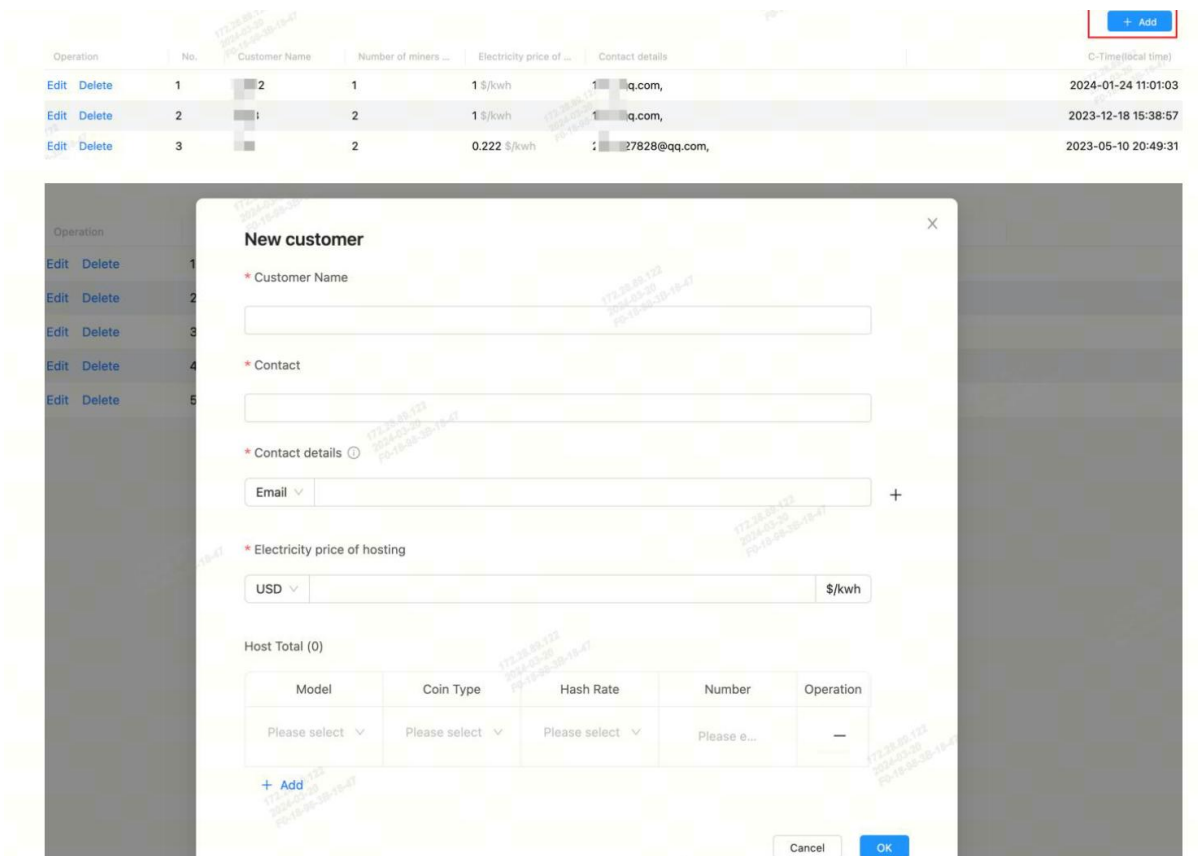


The screenshot shows a sidebar menu on the left with options: Overview, Miners Monitoring, Income, Infrastructure, Assets Management, Statistical Reports, and Account Security. The 'Account Security' section is expanded to show 'Customer Management'. A table displays customer data with columns: Operation, No., Customer Name, Number of miners, Electricity price of, Contact details, and C-Time(local time). A '+ Add' button is in the top right.

Operation	No.	Customer Name	Number of miners	Electricity price of	Contact details	C-Time(local time)
Edit Delete	1	te	1	1 \$/kwh	1 .com,	2024-01-24 11:01:03
Edit Delete	2	4	2	1 \$/kwh	1 .com,	2023-12-18 15:38:57
Edit Delete	3	te	2	0.222 \$/kwh	2 328@qq.com,	2023-05-10 20:49:31
Edit Delete	4	H	100	0.23 \$/kwh	s .3.com,	2023-05-08 21:28:12
Edit Delete	5	ce	200	0.99 \$/kwh	s .3.com,86-18610672429	2023-05-08 21:03:23

8.1.2 Adding and modifying customer information

You can add and modify customer account information.



The screenshot shows the 'New customer' form overlaid on the table from the previous image. The form has fields for: Customer Name, Contact, Contact details (with an 'Email' dropdown and a '+' icon), and Electricity price of hosting (with a 'USD' dropdown and '\$/kwh' unit). Below these is a 'Host Total (0)' table with columns: Model, Coin Type, Hash Rate, Number, and Operation. The 'Host Total' table has dropdowns for 'Please select' and a 'Please e...' field. At the bottom of the form are '+ Add', 'Cancel', and 'OK' buttons.

Operation	No.	Customer Name	Number of miners	Electricity price of	Contact details	C-Time(local time)
Edit Delete	1	2	1	1 \$/kwh	1 .q.com,	2024-01-24 11:01:03
Edit Delete	2	i	2	1 \$/kwh	1 .q.com,	2023-12-18 15:38:57
Edit Delete	3		2	0.222 \$/kwh	: 27828@qq.com,	2023-05-10 20:49:31

Edit customer

* Customer Name
test22

* Contact
2

* Contact details ⓘ
Email 123@qq.com

* Electricity price of hosting
USD 1.0000 \$/kwh

Host Total (1)

Model	Coin Type	Hash Rate	Number	Operation
D5	DASH	119GH	1	-

+ Add

Cancel OK

8.2 Maintenance Personnel

8.2.1 Display of Maintenance Personnel Information

The list displays all the O&M personnel under this mine, each with different roles such as administrator, visitor, and O&M. Different roles have different permissions.

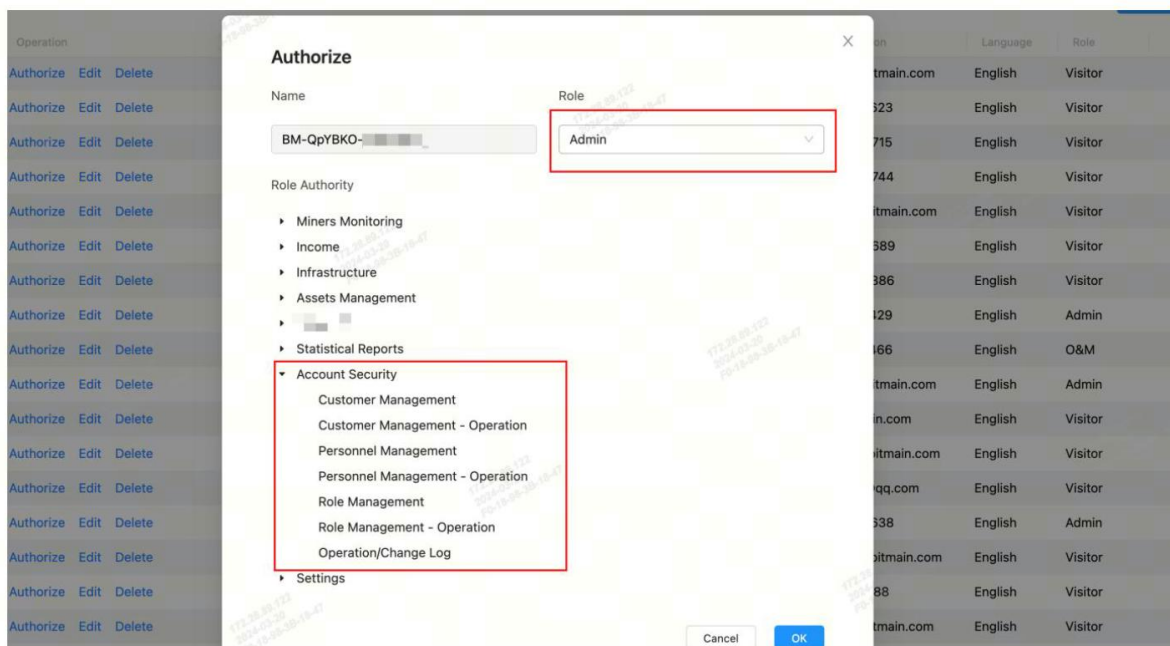
Operation	No.	Name	Mailbox	Tel	Login information	Language	Role	C-Time(local time)
Authorize Edit Delete	32	J-siyun.yang	@bitmain.com		siyun.yang@bitmain.com	English	Visitor	2021-12-29 16:4
Authorize Edit Delete	33	-mjezpg9350	@chacuo.net	86-165	86-165	English	Visitor	2022-02-23 22:3
Authorize Edit Delete	34	@bitmain.com	@bitmain.com	86-152	86-156	English	Visitor	2022-02-24 11:0
Authorize Edit Delete	35		@sin.com	86-13	86-134	English	Visitor	2022-02-24 11:0
Authorize Edit Delete	36		@bitmain.com		liping.zl@bitmain.com	English	Visitor	2022-02-28 11:2
Authorize Edit Delete	37	@qq.com	@qq.com	86-152	86-159	English	Visitor	2022-03-01 15:5
Authorize Edit Delete	38		@chuangke.io	86-152	86-152	English	Visitor	2022-03-01 16:1
Authorize Edit Delete	39	2429	@bitmain.com	86-18	86-186	English	Admin	2022-03-11 10:2
Authorize Edit Delete	40	-0466	@bitmain.com	86-152	86-152	English	O&M	2022-05-11 10:3
Authorize Edit Delete	41	-chunjie.pe	@bitmain.com		chunjie.pe@bitmain.com	English	Admin	2022-06-06 14:2

8.2.2 Permission Modification

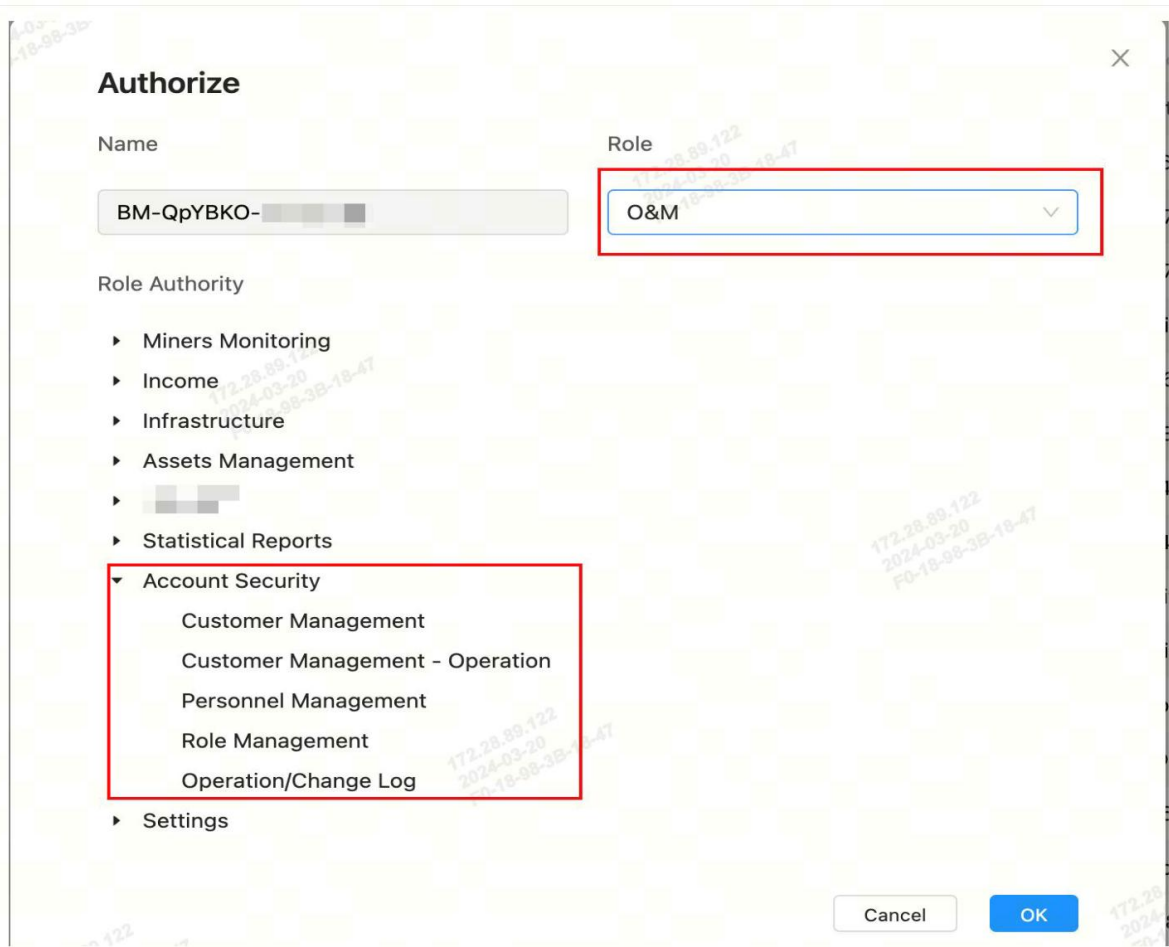
1. Click the authorization in each row of the operation bar to modify permissions.



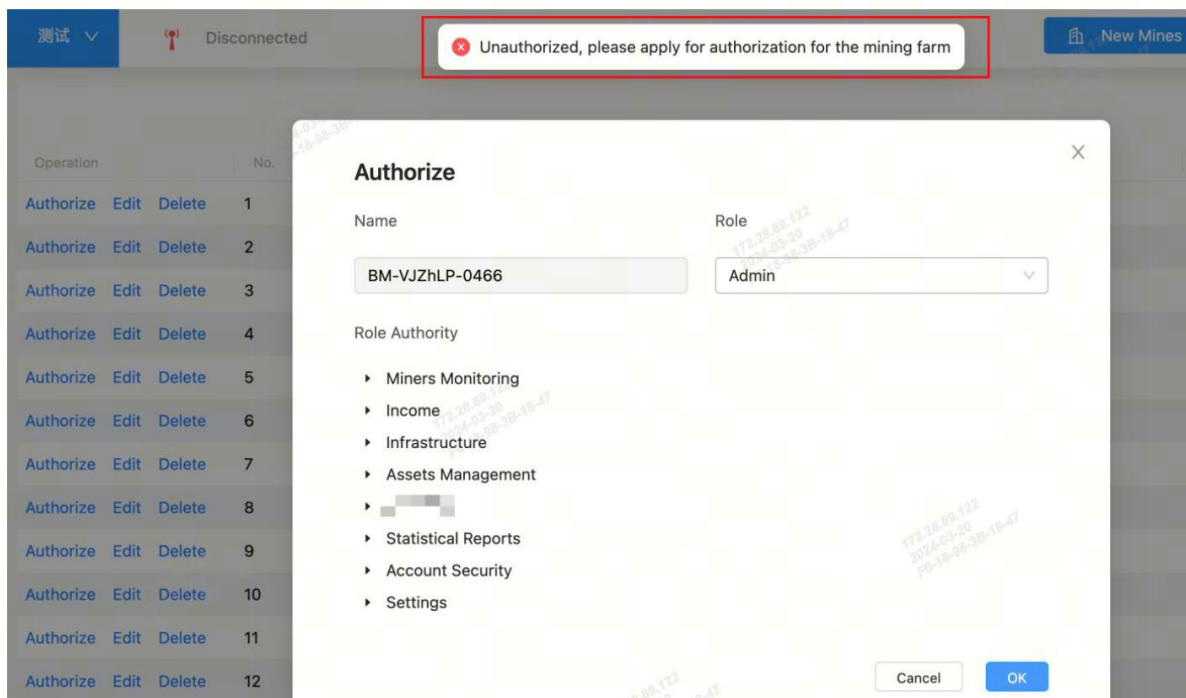
2. After selecting a user role, the permissions assigned to that role are displayed. You can see that different roles have different permissions. For example, the administrator role includes the 'Operations personnel-Operations' permission, which allows adding, modifying, and other operations in the Operations personnel menu.



3. The operation role lacks the 'Operation' permission, meaning you cannot perform any actions on this page except viewing.

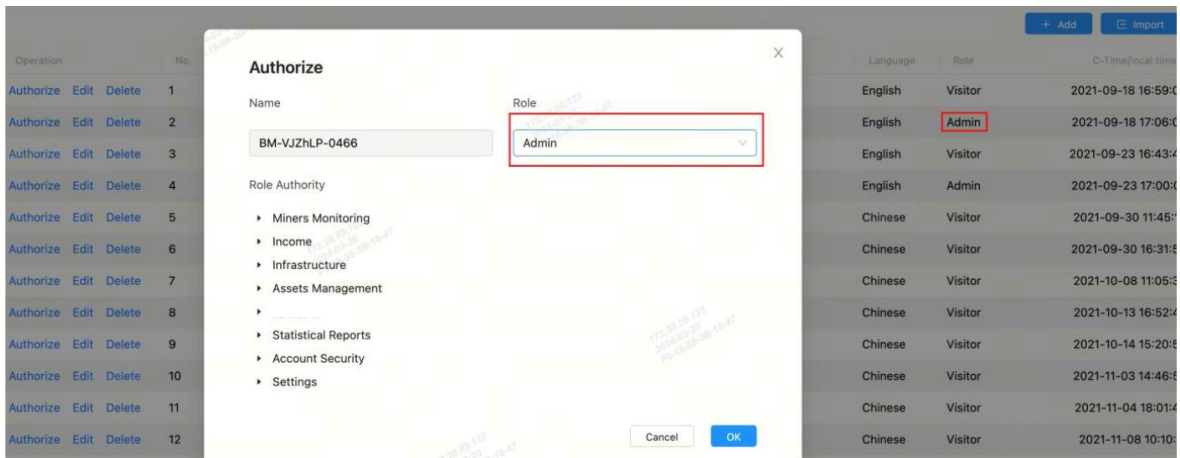


4. The current logged-in user is an operations role. Attempting to authorize other users will result in failure.

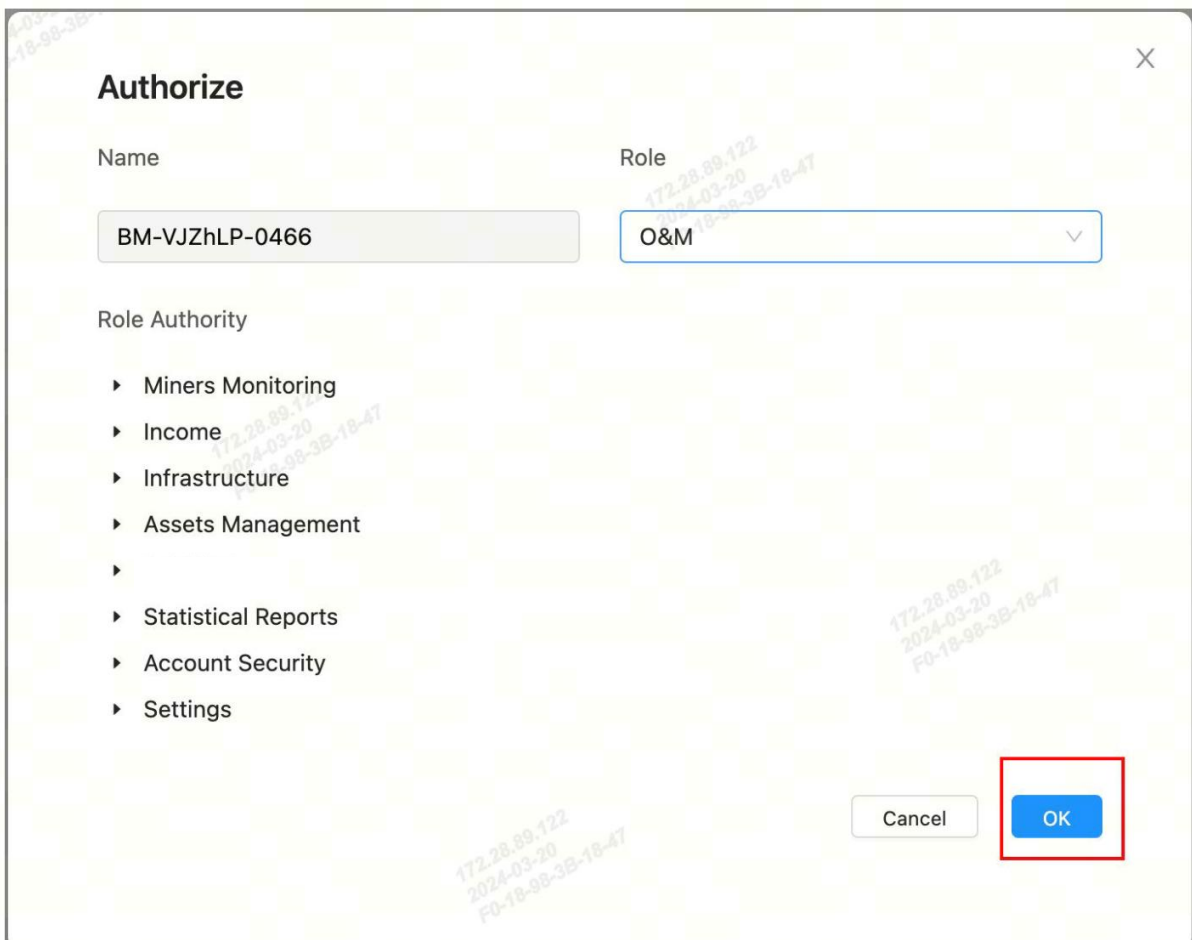


5. Modify permissions when the logged-in user has 'Operations Personnel-Operation' access.

a. The user with administrator privileges was the first line before the modification.



b. Click to change the role to an operations and maintenance (O&M) role;



c. The modification was successful.

Operation	No.	Name	Mailbox	Tel	Login Information	Language	Role	C-Time(local time)
Authorize Edit Delete	1	BM-VJZhLP-0466	y...n.com	86-152-...	86-152-...	English	O&M	2021-09-18 16:56
Authorize Edit Delete	2			86-11-...	86-186-...	English	Admin	2021-09-18 17:06

Note: The same applies to permissions with "xxx-operation"

8.2.3 Modification and Addition of Operation and Maintenance Personnel Information

This feature requires operational personnel with administrator privileges to access.

1. Click Edit to modify basic information.

2. Click to add an operations and maintenance staff.

8.3 Operation and Maintenance Roles

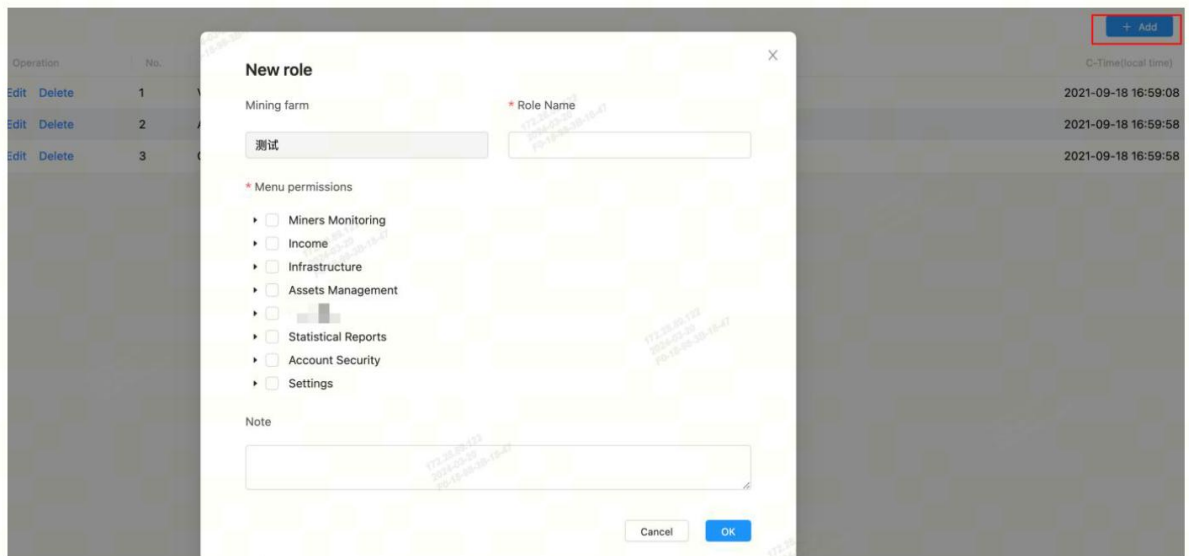
8.3.1 View operation and maintenance role information

View all character information in this mine.



8.3.2 Adding, Deleting, and Modifying Role Type Information

1. Click Add to enter role type information.



2. Check the menu permission to select the role's permission information.

New role

Mining farm

* Role Name

测试

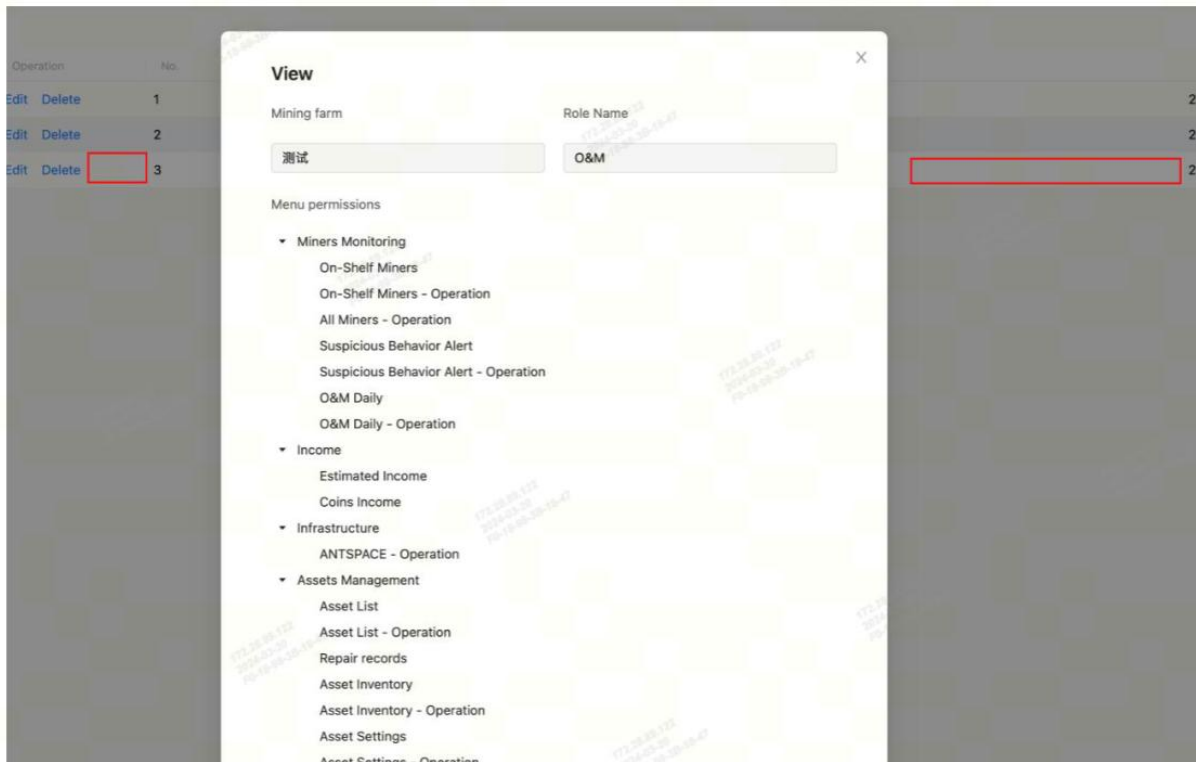
* Menu permissions

- Miners Monitoring
 - On-Shelf Miners
 - On-Shelf Miners - Operation
 - Asset Miners
 - All Miners - Operation
 - Suspicious Behavior Alert
 - Suspicious Behavior Alert - Operation
 - O&M Daily
 - O&M Daily - Operation
- Income
- Infrastructure
- Assets Management
- : [icon]
- Statistical Reports
- Account Security
- Settings

Note

Cancel OK

3. Click the blank space in each row to view the role permissions.



4. Click here to make changes.

Operation	No.	Role type	C-Time(local time)
Edit Delete	1	Visitor	2021-09-18 16:59:08
Edit Delete	2	Admin	2021-09-18 16:59:58
Edit Delete	3	O&M	2021-09-18 16:59:58

8.4 Logs/Records

8.4.1 Operation Log

View operation log information, which can be filtered and exported.

Operation	No.	Date(local time)	Operator	Operation Type
Stop Execution	1	2026-01-12 18:52:04	BM-cqyuA	批量下架
Stop Execution	2	2025-12-19 09:48:32	BM-BkFvwl	List in batches
Stop Execution	3	2025-12-17 11:08:32	BM-cqyuXE-ep	批量下架
Stop Execution	4	2025-12-09 16:10:21	BM-cqyuXE-cl	history_log
Stop Execution	5	2025-12-09 16:10:21	BM-cqyuXE-cl	批量下架
Stop Execution	6	2025-12-09 16:09:57	BM-cqyuXE-ch	批量获取历史日志
Stop Execution	7	2025-12-09 16:01:00	BM-cqyuXE-ch	批量获取历史日志
Stop Execution	8	2025-12-09 15:54:28	BM-cqyuXE-ch	批量获取历史日志
Stop Execution	9	2025-12-09 14:45:26	BM-cqyuXE-ch	history_log
Stop Execution	10	2025-12-09 14:45:26	BM-cqyuXE-ch	批量下架
Stop Execution	11	2025-12-09 14:45:25	BM-cqyuXE-cl	Recover DHCP
Stop Execution	12	2025-12-09 14:38:28	BM-cqyuXE-cl	history_log
Stop Execution	13	2025-12-09 14:38:28	BM-cqyuXE-cl	批量下架
Stop Execution	14	2025-12-09 14:38:27	BM-cqyuXE-cl	Recover DHCP
Stop Execution	15	2025-12-09 11:37:03	BM-cqyuXE-cl	批量下架

8.4.2 Change Records

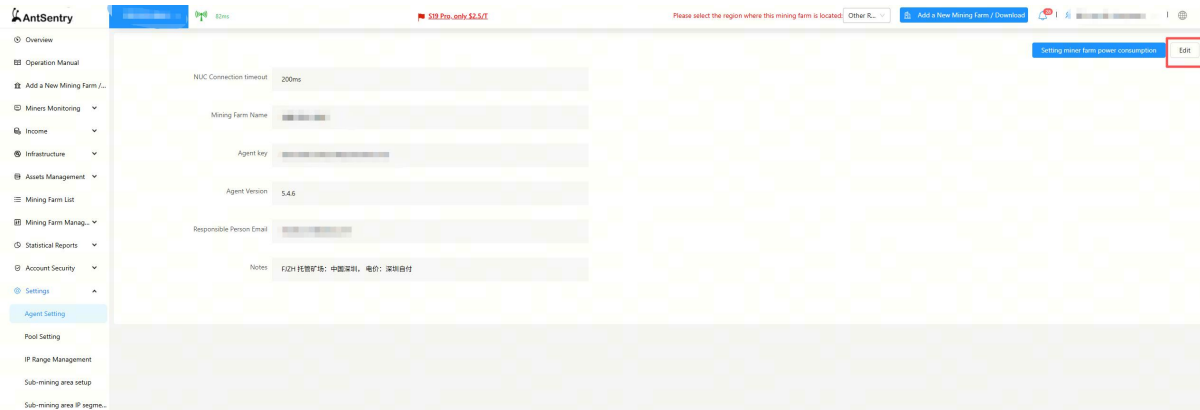
View change history information, which can be filtered and exported.

No.	Operating Time(UTC time)	Operator	Operation Type
1	2025-04-22 03:10:47	BM-BkFvwl	Upload the miner's mining pool configuration file
2	2025-01-24 08:03:06	BM-gKcuEj	Save Customer Info
3	2024-04-01 14:31:37	BM-jSgkZ	Save Customer Info
4	2024-01-15 09:36:44	BM-jSgkZ	Save Customer Info
5	2024-01-15 09:36:22	BM-jSgkZ	Delete Customer Info
6	2024-01-15 09:36:02	BM-jSgkZ	Save Customer Info

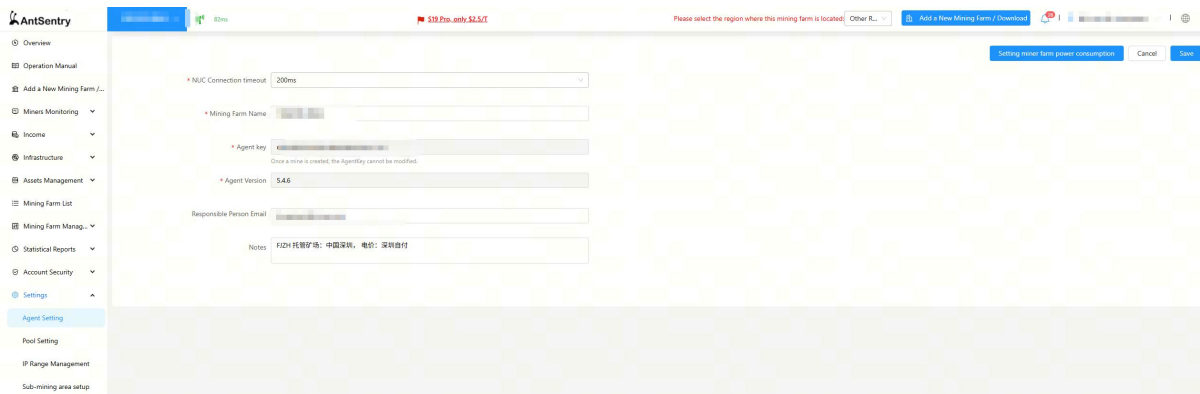
9. Settings

9.1 Agent Settings

1. View agent information. Click Edit to modify basic information.



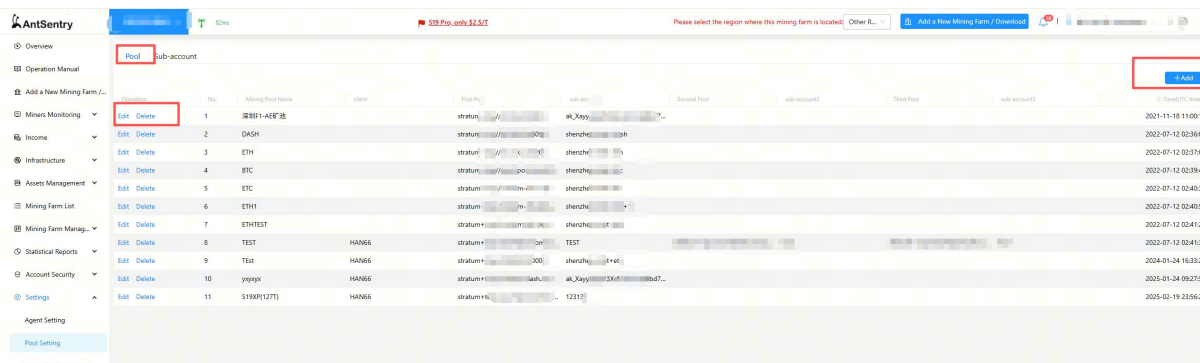
2. The agent key and version number cannot be edited.



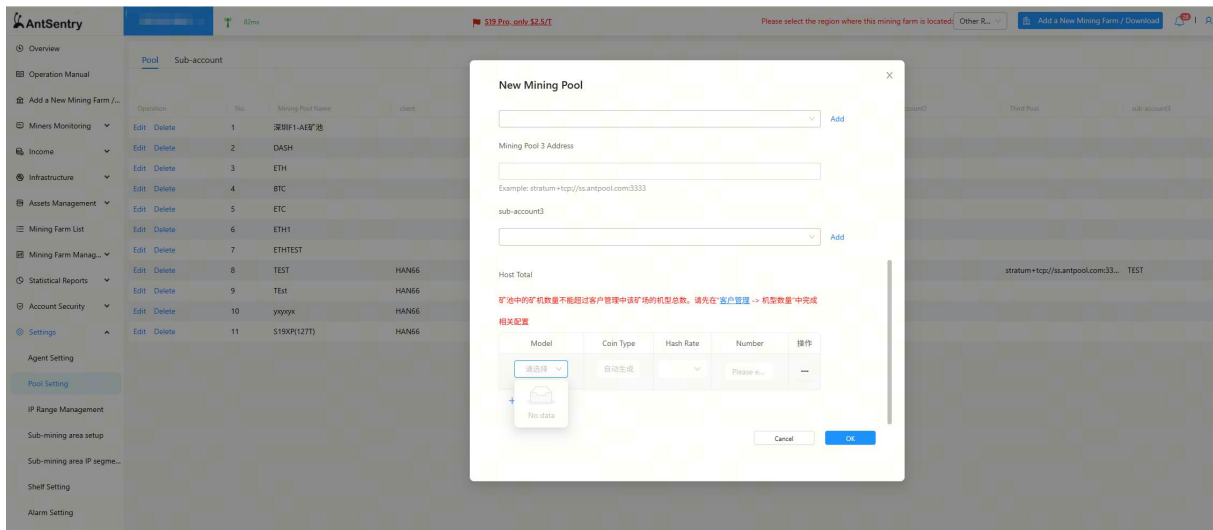
9.2 Mine Pool Configuration

9.2.1 Mine Pool Configuration

1. View the configured mining pool information, which can be added, edited, or deleted.



2. Why can't I find the desired hosting machine when adding or modifying mining pool configurations?



a. As shown in the diagram, I need the S19 model, but it's not available. We need to identify the customer with the required configuration, as illustrated below, where the customer is test.



b. Locate the test client under Account Management > Customer Management, edit their hosting details, and add the S19 model.

Operation No.

Edit	Delete	1
Edit	Delete	2
Edit	Delete	3
Edit	Delete	4
Edit	Delete	5

Edit customer

* Customer Name

* Contact

* Contact details ⓘ
Email +

* Electricity price of hosting
USD \$/kwh

Host Total (2)

Model	Coin Type	Hash Rate	Number	Operation
S19j Pro	BTC	100000GH	2	—

+ Add

Cancel OK

Operation No.

Edit	Delete	1
Edit	Delete	2
Edit	Delete	3
Edit	Delete	4
Edit	Delete	5

Edit customer

* Customer Name

* Contact

* Contact details ⓘ
Email +

* Electricity price of hosting
USD \$/kwh

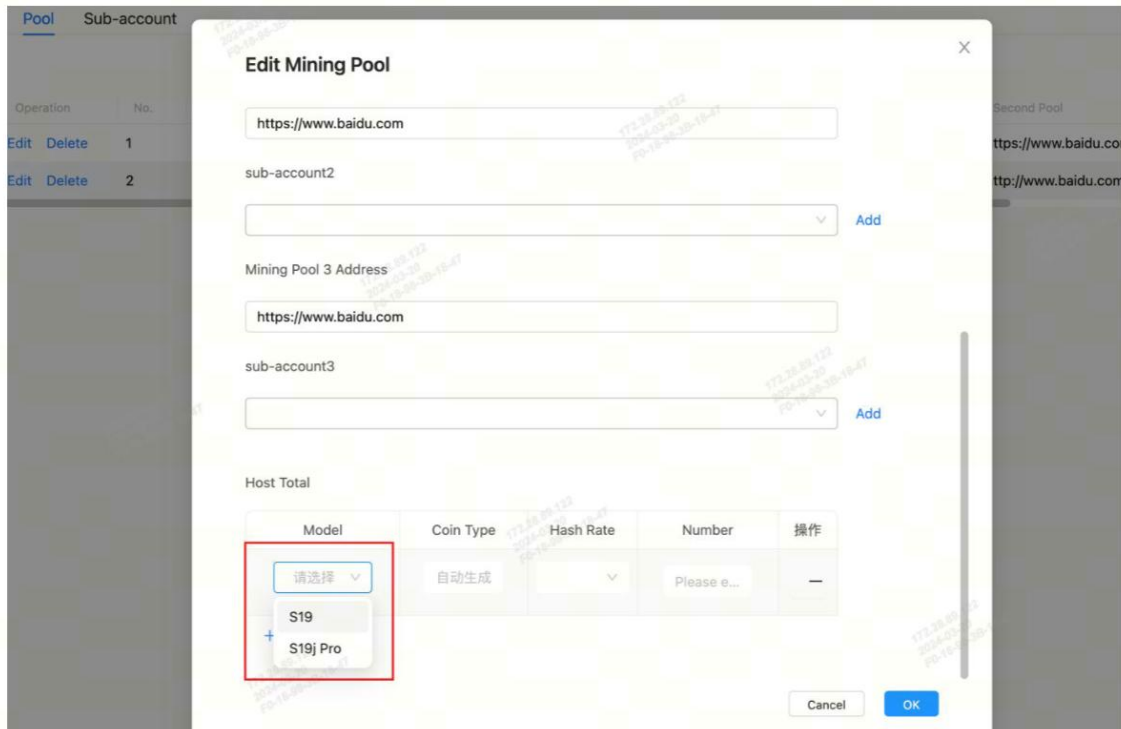
Host Total (7)

Model	Coin Type	Hash Rate	Number	Operation
S19j Pro	BTC	100000GH	<input type="text" value="2"/>	—
S19	BTC	60000GH	5	—

+ Add

Cancel OK

c. It can be found that the S19 model already exists.



9.2.2 Sub-account Configuration

View the sub-account information configured, which can be edited, deleted, or added.

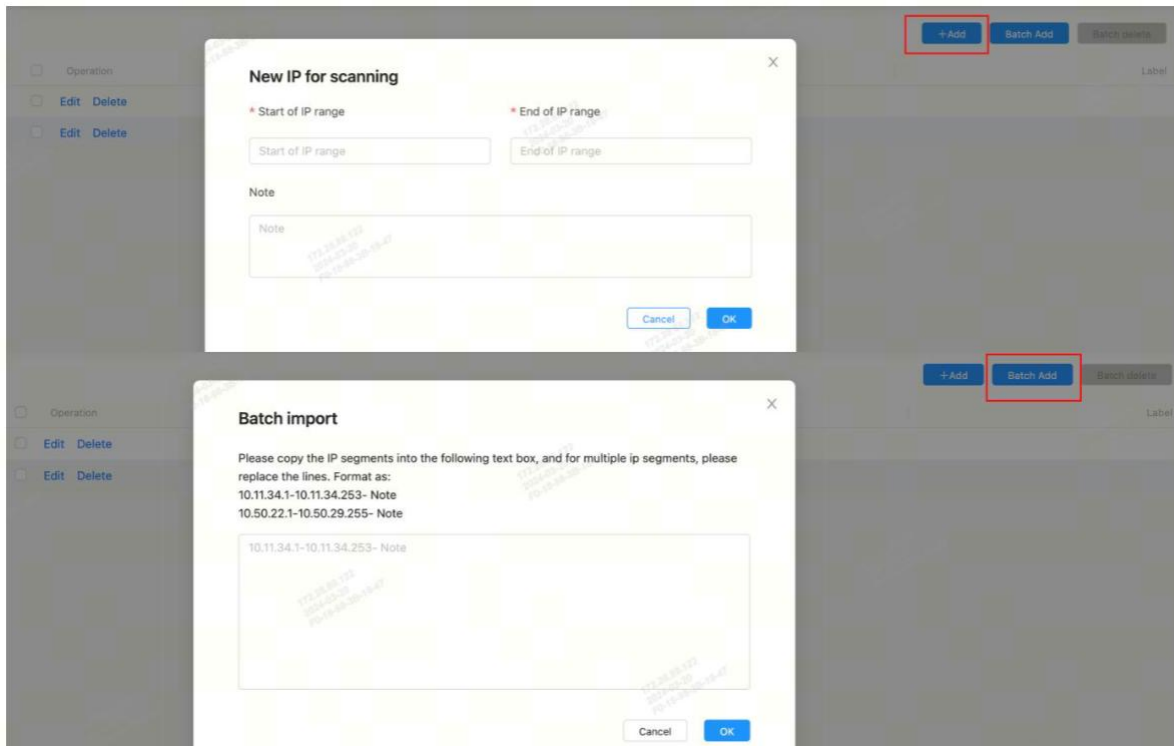


9.3 IP Segment Management

1. Configure IP segment maintenance information, which can be edited and added.



2. Click Add to proceed.



9.4 Sub-mining Area Setup

1. You can view and configure sub-mines;



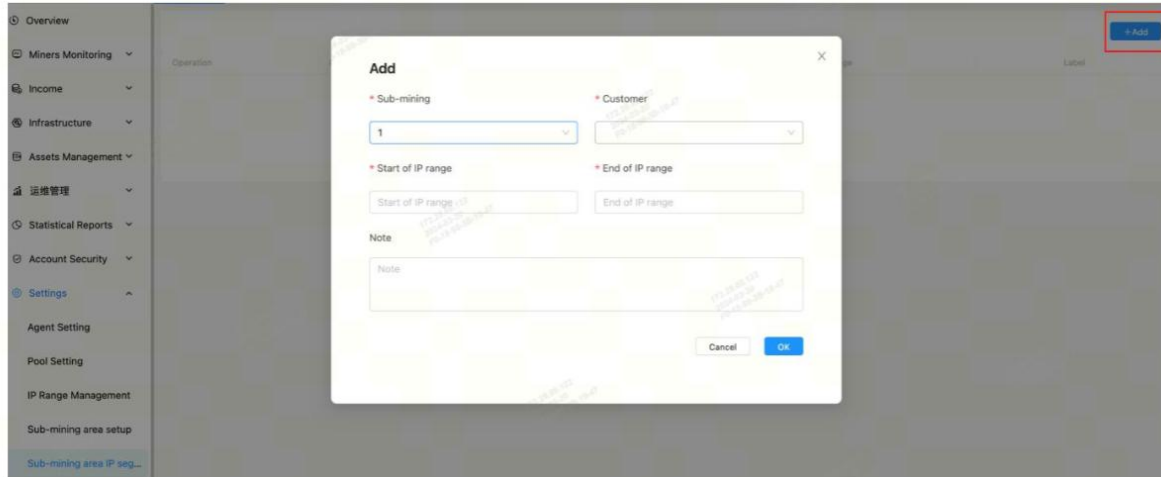
2. Add a sub-mining area number. The number will automatically increase by 1 and cannot be changed.



9.5 Sub-mining Area IP Segment Settings

Click Add to set customers and IP ranges for each sub-mining area.

Note: Sub-mining area numbers must start with 1.



9.6 Shelf Setup

9.6.1 Shelf Information View

Operation	No.	Area	Name of shelf	IP	Column	Start position
Edit Delete	1	正确	测试	1层: 192.168.1.10 - 192.168.1.12	3	Bottom left
Edit Delete	2	非法子网	掩码	1层: 192.168.1.10 - 192.168.1.12	3	Top right
Edit Delete	3	非法子网掩码	test	1层: 192.168.1.10 - 192.168.1.12	3	Top right
Edit Delete	4	矿区test	货架test	192.168.100.0 - 192.168.100.255	5	Bottom right
Edit Delete	5	addShelf	shelf	1层: 192.168.2.0 - 192.168.2.255	3	Bottom left
Edit Delete	6	minerTest	shelfTest	1层: 192.168.1.0 - 192.168.1.255	2	Top left
Edit Delete	7	aa	aaa	1层: 10.76.18.169 - 10.76.18.171	1	Top left
Edit Delete	8	矿区1	货架1	1层: 10.76.18.102 - 10.76.18.104	2	Top left

9.6.2 Editing and Adding

1. Supports adding, editing, and deleting operations.

Operation	No.	Area	Name of shelf	IP	Column	Start position
Edit Delete	1	正确	测试	1层: 192.168.1.10 - 192.168.1.12	3	Bottom left
Edit Delete	2	非法子网	掩码	1层: 192.168.1.10 - 192.168.1.12	3	Top right
Edit Delete	3	非法子网掩码	test	1层: 192.168.1.10 - 192.168.1.12	3	Top right

2. Edit shelf information

Edit shelf

* Area: 正确

* Name of shelf: 测试

* Row: 2

* Column: 3

* Start position: Bottom left

* Estimated Quantity to be Occupied (All seats6): 3

* Seat setting method: Fixed IP Fixed SN

* Continuous IP or not: Yes No

* Name of layer: 1层

* Start IP: Start IP

* End IP: End IP

2层

Start IP

End IP

Cancel OK

3. Click Add to configure new shelf information

New shelf

* Area: Area

* Name of shelf: Name of shelf

* Row: 1

* Column: 1

* Start position:

* Estimated Quantity to be Occupied (All seats1): 1

* Seat setting method: Fixed IP Fixed SN

* Continuous IP or not: Yes No

* Name of layer: 1层

* Start IP: Start IP

* End IP: End IP

Cancel OK

4. There are two methods for setting up mining machine positions: one assigns the shelf location based on IP address, while the other assigns it based on serial number (SN).

*** 机位设置方式** *** 是否连续IP**

固定IP 固定SN 是 否

*** 层名** *** 开始IP** *** 结束IP**

1层	开始IP	结束IP
2层	开始IP	结束IP

取消 确定

*** Seat setting method**

Fixed IP Fixed SN

	column 1	column 2
layer 1		
layer 2		

Cancel OK

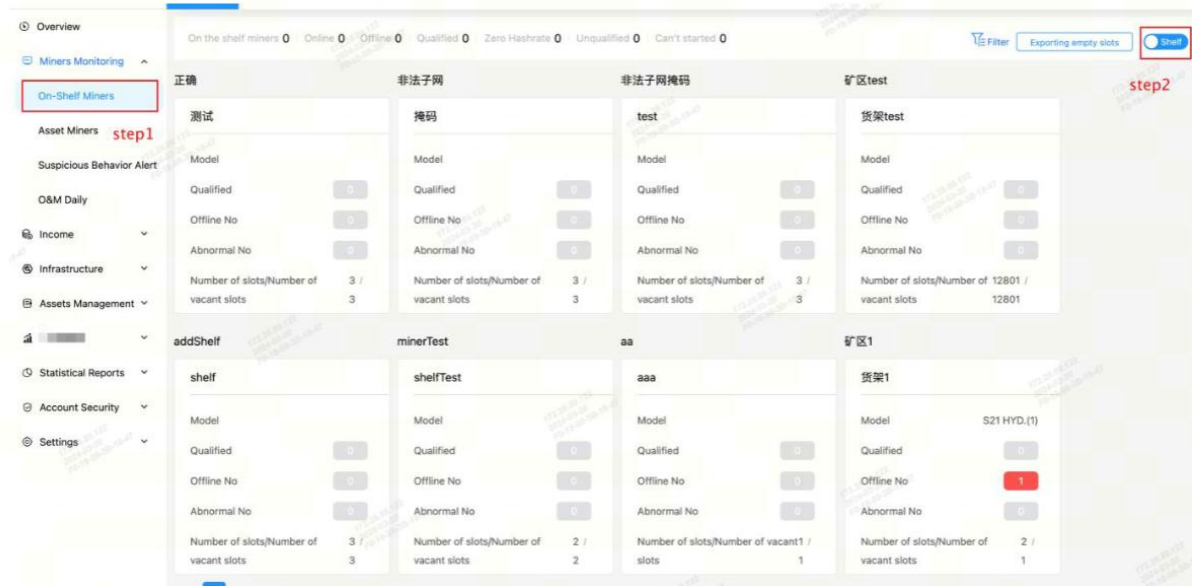
*** Seat setting method** *** Continuous IP or not**

Fixed IP Fixed SN Yes No

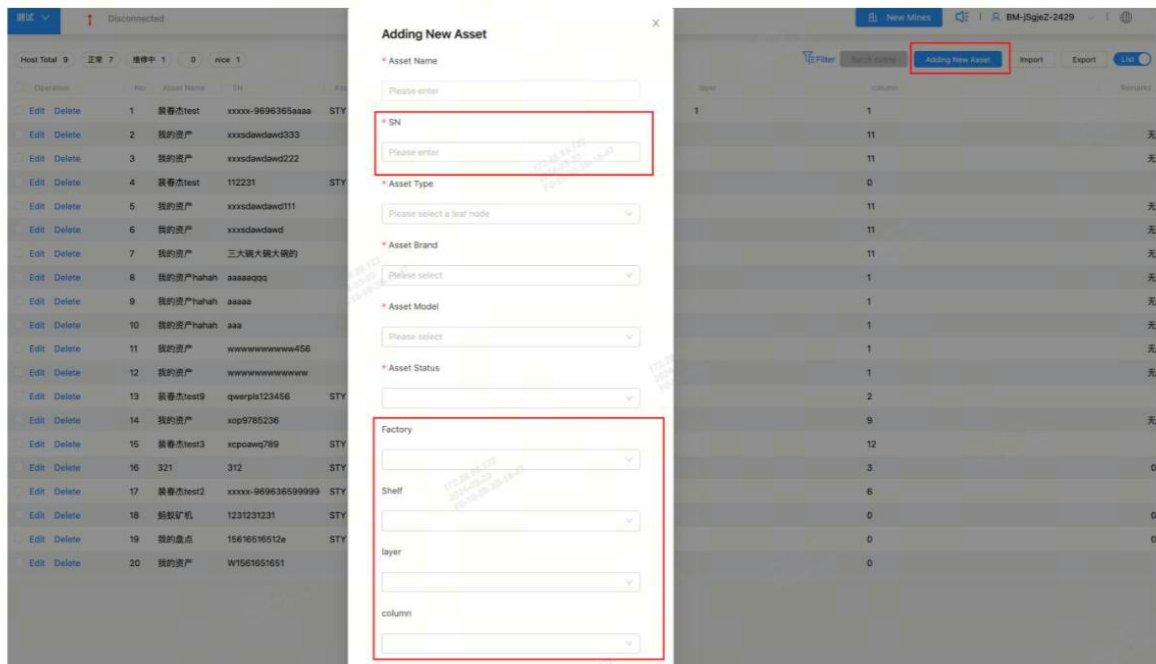
*** Name of layer** *** Start IP** *** End IP**

1层	Start IP	End IP
----	----------	--------

- Once the fixed IP method is selected, the mining machine's location can be directly found on the mining machine shelf.



6. After selecting the fixed SN method, you must configure it in the asset inventory. Each SN will be assigned a corresponding shelf location, which requires configuration here.



9.7 Alarm Settings

1. The computing power fluctuation alert allows you to manually configure parameters such as threshold, notification method, and frequency for alert push.

Infrastructure

Assets Management

Statistical Reports

Account Security

Settings

Agent Setting

Pool Setting

IP Range Management

Sub-mining area setup

Sub-mining area IP seg...

Shelf Setting

Alarm Setting

Hashrate Fluctuation Alarm NUC Downtime Alarm Miner Downtime Alarm Illegal Mining Pool Alarm Dead pool alarm

Enable:

Threshold: Quantity Percentage

Triggering the alarm when the real-time hashrate drops by %

Notification Ways: SMS Mail

Notification frequency: minutes Repeat notification times: times

Contact:

Edit

2. NUC disconnection alarm

Hashrate Fluctuation Alarm **NUC Downtime Alarm** Miner Downtime Alarm Illegal Mining Pool Alarm Dead pool alarm

Enable:

Notification Ways: SMS Mail

Notification frequency: minutes Repeat notification times: times

Contact:

Edit

3. The mining machine will trigger an alarm when the number of disconnected machines exceeds 10.

Hashrate Fluctuation Alarm NUC Downtime Alarm **Miner Downtime Alarm** Illegal Mining Pool Alarm Dead pool alarm

Enable:

Offline miners: more than 0 will trigger an alarm

Notification Ways: SMS Mail

Notification frequency: minutes Repeat notification times: times

Contact:

4. Illegal mining pool alarm;

Hashrate Fluctuation Alarm NUC Downtime Alarm Miner Downtime Alarm **Illegal Mining Pool Alarm** Dead pool alarm

Enable:

Notification Ways: SMS Mail

Notification frequency: minutes Repeat notification times: times

Contact:

5. Deadpool alert.

Hashrate Fluctuation Alarm NUC Downtime Alarm Miner Downtime Alarm Illegal Mining Pool Alarm **Dead pool alarm**

Enable:

Threshold: Quantity Percentage

Triggering the alarm when the dead pool range of mining rigs is greater than %

Dead pool status: Pool one Dead All Dead

Notification Ways: SMS Mail

Notification frequency: minutes Repeat notification times: times

Contact:

9.8 Abnormal Restart

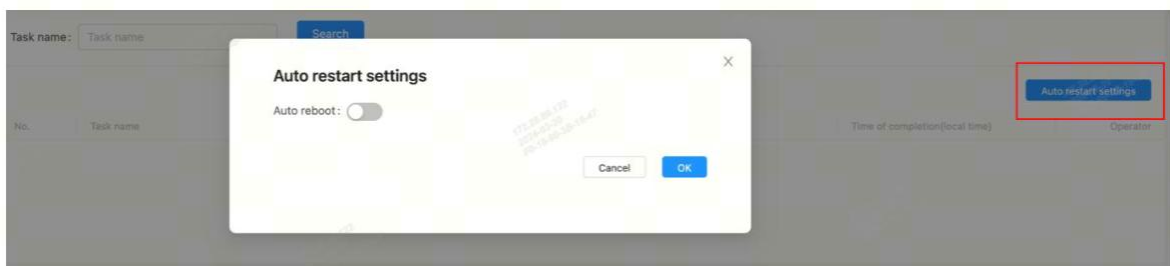
1. View automatic restart records

No.	Task name	Total	Success number	Failure number	C-Time(local time)	Time of completion(local time)	Operator
1	自动重启-4268	18	18	0	2021-10-31 23:30:00	2021-10-31 23:30:02	system
2	自动重启-4183	11	11	0	2021-10-30 23:30:00	2021-10-30 23:30:09	system
3	自动重启-4112	11	11	0	2021-10-29 23:30:00	2021-10-29 23:30:08	system
4	自动重启-4058	28	28	0	2021-10-28 23:30:00	2021-10-28 23:30:16	system
5	自动重启-3973	531	531	0	2021-10-27 23:30:00	2021-10-27 23:30:09	system
6	自动重启-3902	25	25	0	2021-10-26 23:30:00	2021-10-26 23:30:05	system
7	自动重启-3867	24	24	0	2021-10-25 23:30:00	2021-10-25 23:30:04	system
8	自动重启-3792	12	12	0	2021-10-24 23:30:00	2021-10-24 23:30:06	system
9	自动重启-3732	13	13	0	2021-10-23 23:30:00	2021-10-23 23:30:02	system
10	自动重启-3647	21	21	0	2021-10-22 23:30:00	2021-10-22 23:30:05	system
11	自动重启-3572	47	47	0	2021-10-21 23:30:00	2021-10-21 23:30:07	system
12	自动重启-3288	1	1	0	2021-10-16 23:30:00	2021-10-16 23:30:06	system
13	自动重启-3058	2	2	0	2021-10-12 23:30:00	2021-10-12 23:30:04	system
14	自动重启-2912	1	1	0	2021-10-10 23:30:00	2021-10-10 23:30:06	system

2. Click the number of mining rigs to view their details.

No.	Task name	Total	Success number	Failure number	C-Time(local time)	Time of completion(local time)	Operator
1	自动重启-4268					2021-10-31 23:30:02	
2	自动重启-4183					2021-10-30 23:30:09	
3	自动重启-4112					2021-10-29 23:30:08	
4	自动重启-4058					2021-10-28 23:30:16	
5	自动重启-3973					2021-10-27 23:30:09	
6	自动重启-3902	25	25	0	2021-10-26 23:30:00	2021-10-26 23:30:05	
7	自动重启-3867	24	24	0	2021-10-25 23:30:00	2021-10-25 23:30:04	
8	自动重启-3792	12	12	0	2021-10-24 23:30:00	2021-10-24 23:30:06	

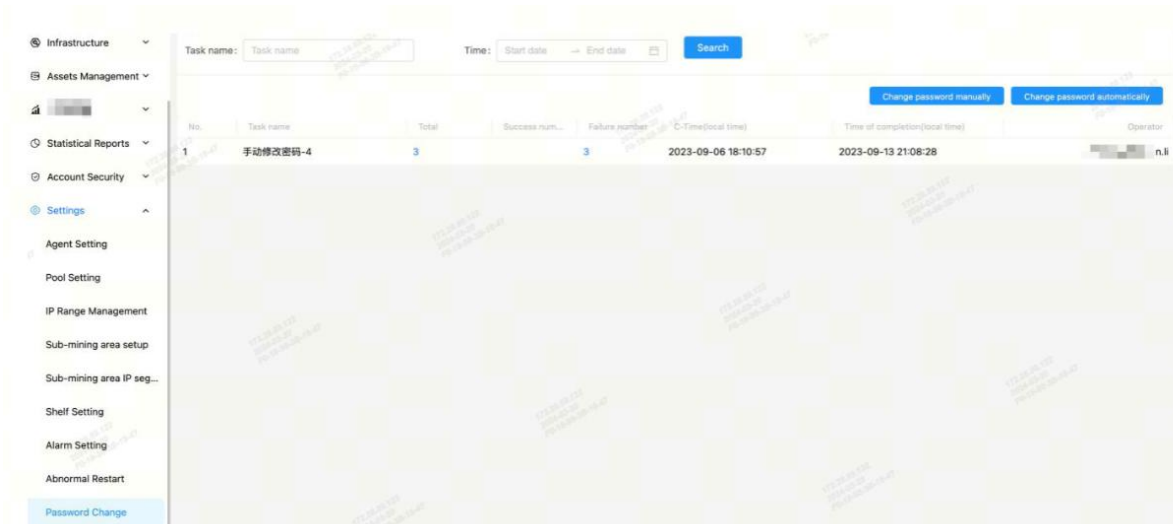
3. Click Auto Restart Settings to enable or disable the auto-restart feature.



9.9 Password Settings

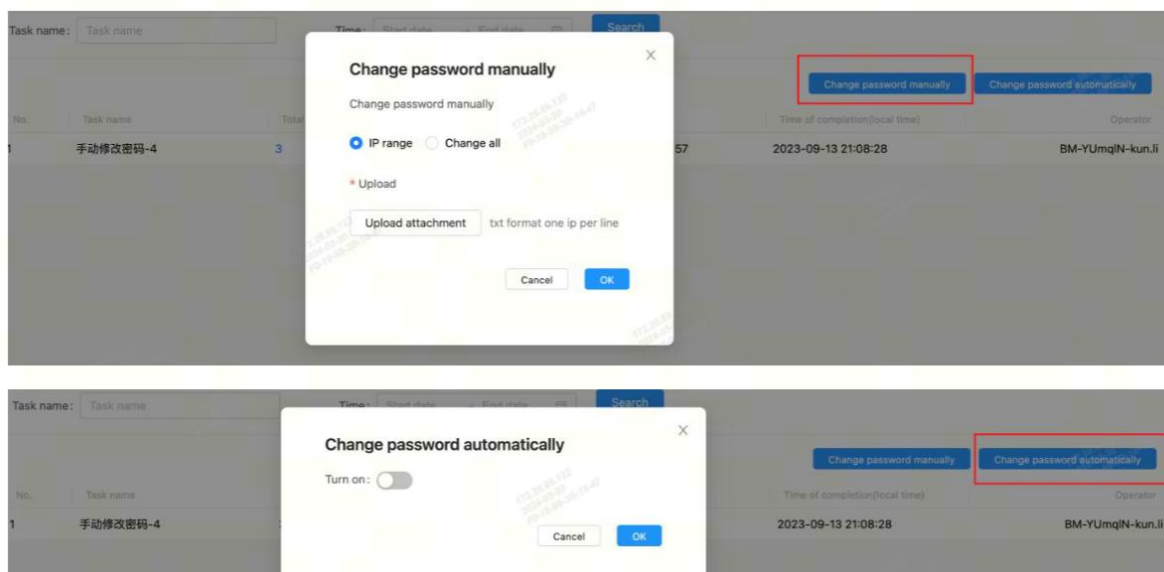
9.9.1 Modify password list

Show the task list for changing passwords.



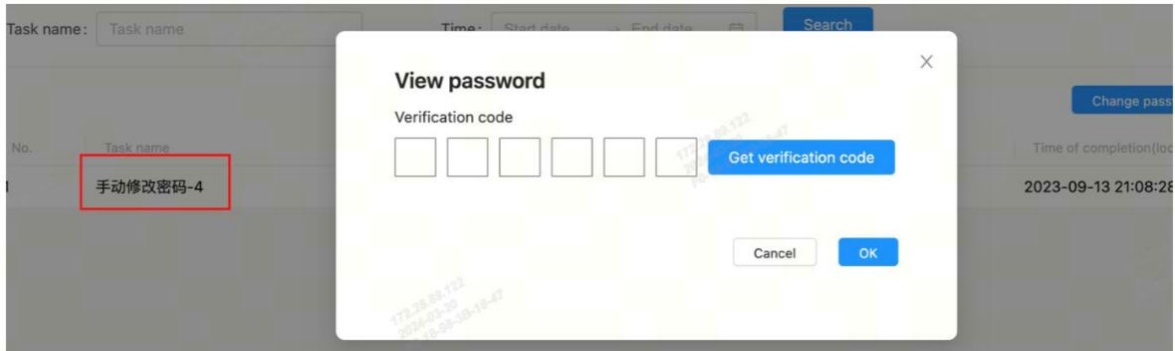
9.9.2 Change password

You can manually change the password or automatically change it.



9.9.3 View password

Click the task name to view the password.



9.10 Firmware Upgrade

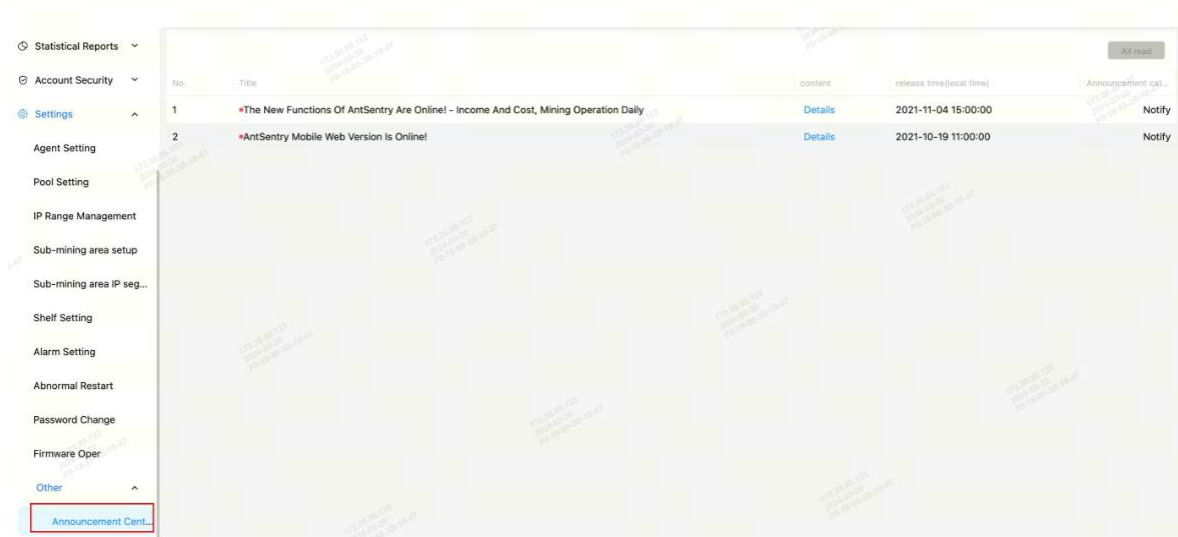
View firmware information.

Operation	No.	Firmware name	Model	Version	Extension	Enable
Disable	1	Antminer-S19-Pro-release-202012111123.bmu	Antminer S19 Pro	2021-02-04	bmu	Enabled
Disable	2	Antminer-S19-release-202104112036.bmu	Antminer S19	2021-06-23	bmu	Enabled
Disable	3	Antminer-S19i-release-202104272304.bmu	Antminer S19i	2021-05-28	bmu	Enabled
Disable	4	Antminer-S19-Hydro-release-202105191744.bmu	Antminer S19 Hydro	2021-06-09	bmu	Enabled
Disable	5	Antminer-S19Pro-Hydro-user-release-a-20210517120706-6458.bmu	Antminer S19Pro Hydro	2021-06-10	bmu	Enabled
Disable	6	Antminer-T19-Hydro-release-202105212014.bmu	Antminer T19 Hydro	2021-06-09	bmu	Enabled
Disable	7	Antminer-S17+-user-OM-202006021031-sig_5968.tar.gz	Antminer S17+	2020-06-18	tar.gz	Enabled
Disable	8	Antminer-S17+-user-OM-202004071411-sig_5755.tar.gz	Antminer S17+	2020-04-14	tar.gz	Enabled
Disable	9	Antminer-T17+-user-OM-202006021011-sig_5967.tar.gz	Antminer T17+	2020-06-18	tar.gz	Enabled
Disable	10	Antminer-T17+-user-OM-202004081127-sig_5761.tar.gz	Antminer T17+	2020-04-14	tar.gz	Enabled
Disable	11	Antminer-S17e-user-OM-202004221119-sig_5818.tar.gz	Antminer S17e	2020-04-30	tar.gz	Enabled
Disable	12	Antminer-S17e-user-OM-202101082231-sig_6358.tar.gz	Antminer S17e	2021-01-25	tar.gz	Enabled
Disable	13	Antminer-T17e-user-OM-202004221121-sig_5820.tar.gz	Antminer T17e	2020-04-30	tar.gz	Enabled
Disable	14	Antminer-T17e-user-OM-202101082235-sig_6360.tar.gz	Antminer T17e	2021-01-25	tar.gz	Enabled
Disable	15	Antminer-S17Pro-user-OM-202004271325-sig_5837.tar.gz	Antminer S17 Pro	2020-06-30	tar.gz	Enabled
Disable	16	Antminer-S17Pro-user-MD-201905241708-sig.tar.gz	Antminer S17 Pro	2019-11-20	tar.gz	Enabled
Disable	17	Antminer-S17-user-OM-202004271323-sig_5835.tar.gz	Antminer S17	2020-06-30	tar.gz	Enabled
Disable	18	Antminer-S17-user-MD-201905241706-sig.tar.gz	Antminer S17	2020-01-02	tar.gz	Enabled

9.11 Other

9.11.1 Remove from maintenance list

Enter mining machine details manually to remove it from the list.



frequently asked questions FAQ

1. -How many machines does each nuc support?

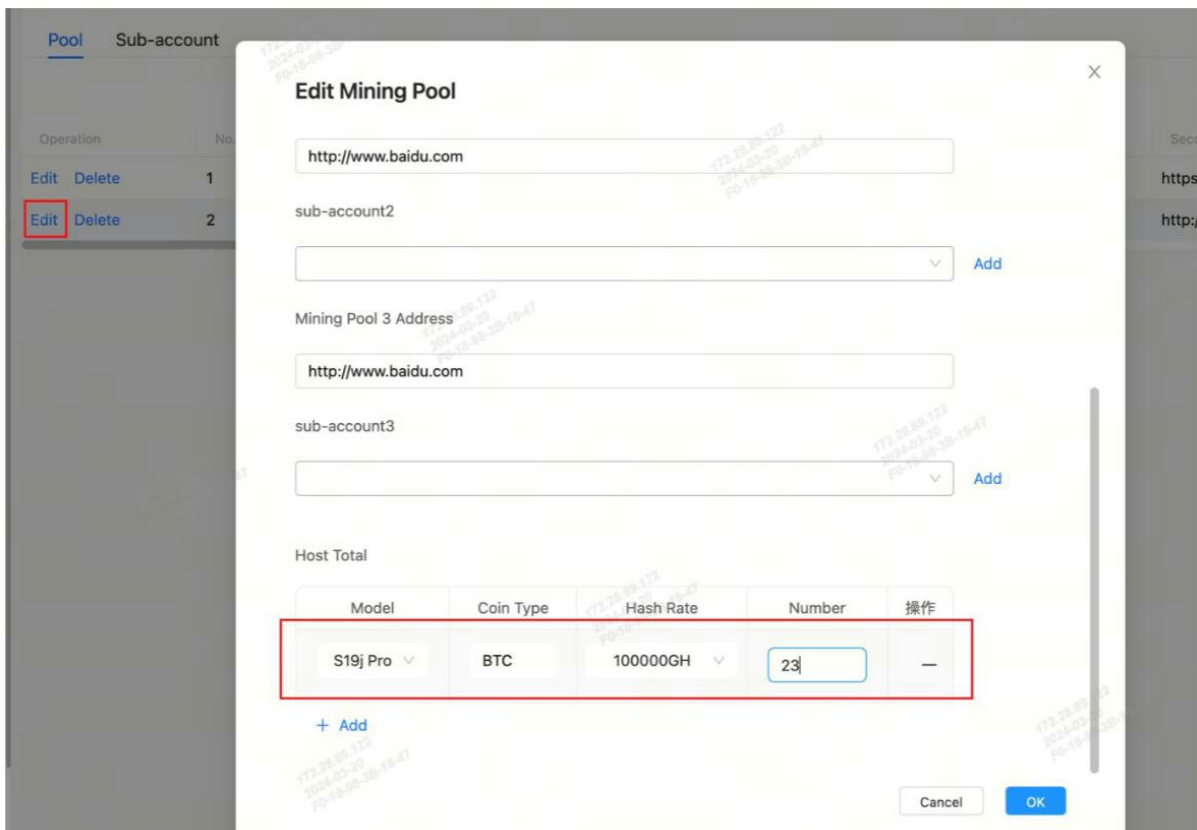
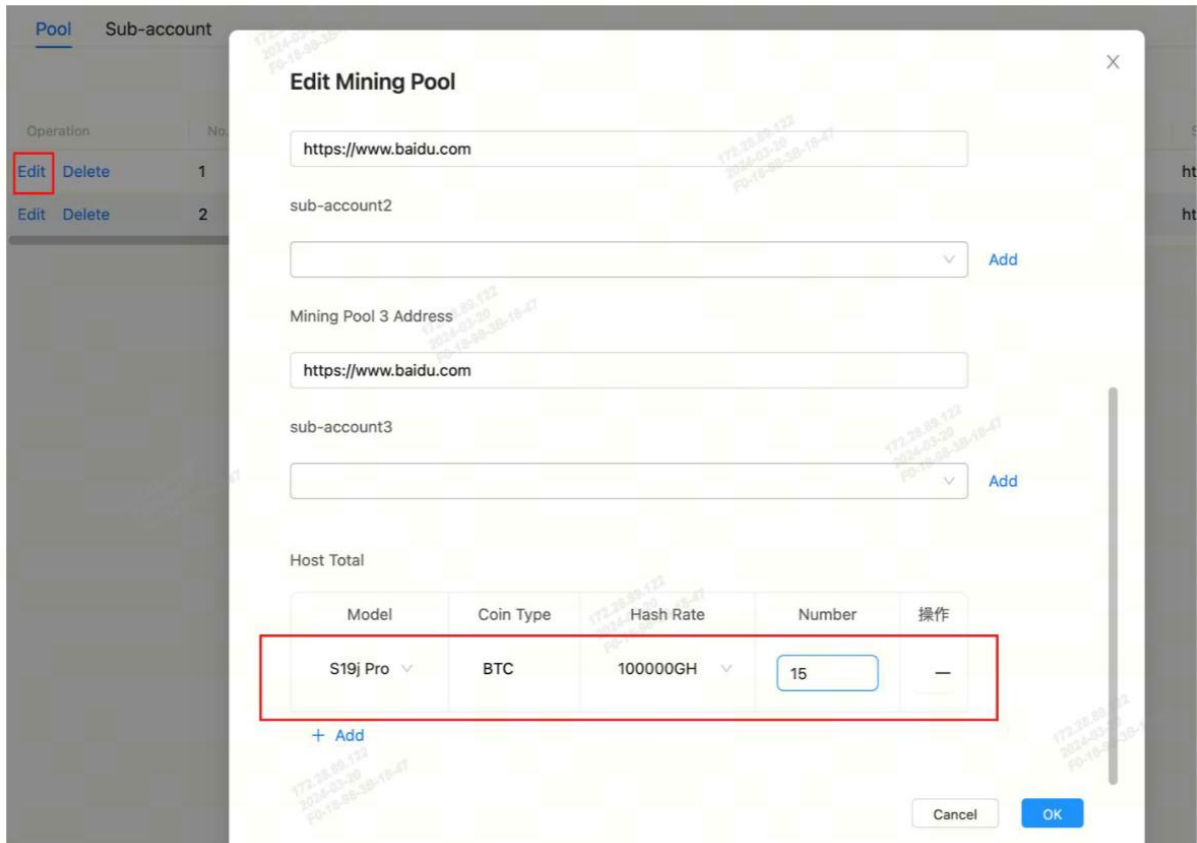
A typical nuc mining rig with a 4-core CPU, 16GB RAM, and 100GB hard drive usually has fewer than 20,000 units.

2. When should you set up sub-mining areas?

When you have two or more mining areas, you can set one as a sub-area of another to view aggregated data for both. If not set as a sub-area, you can view data for each mining area separately.

3. Why must the number of mining pool hosts be at least XX?

First, go to Settings> Mining Pool Configuration to check the number of mining pools under management.



The minimum number of mining pool units a client can host is determined by the total number of units configured for the same model, currency, and computing power. For example, as shown in the figure above, Client test has 15 units of S19j Pro-BTC-104000GH in Test Mining Pool and 23 units

in Test Mining Pool. Therefore, when editing the client's hosting quantity in Security> Account Management, test must set the number to at least 38 units. As illustrated below:

测试 (99) Disconnected New Mines

✖ 托管机型S19j Pro 托管数量不能少于矿池配置中的托管数量38, 请根据设置-矿池配置中的托管信息进行修改

Edit customer

* Customer Name

test

* Contact

test

* Contact details ⓘ

Email 2241727828@qq.com +

* Electricity price of hosting

USD 0.2220 \$/kwh

Host Total (42)

Model	Coin Type	Hash Rate	Number	Operation
S19	BTC	60000GH	5	—
S19j Pro	BTC	100000GH	37	—

+ Add