

Mining Farm Automatic O&M Management Platform

Operating Manual

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1.Description

1.1 Basic Information

Product Name: AntSentry Mining Farm Automatic O&M Management Platform ("AntSentry")

Overall Product Planning: The AntSentry Mining Farm Automatic O&M Management Platform supports the monitoring, O&M, and management of the administrators and O&M personnel of mines, to achieve the systematic and automatic management of the mines, improve the O&M efficiency of the mines, and increase benefits. At the same time, the platform also provides data services for, and supports the decision-making of the final customers, operators, and production & maintenance departments of the Company, to achieve the final goals of driving the operation of the whole mine with "data".

1.2 Purpose

The Operating Manual is prepared upon the analysis of service operations of the AntSentry at each link, to reduce users' costs for software learning, help them get acquainted with and use the AntSentry system skillfully, save the labor cost, and realize the refined operation as soon as possible.

1.3 Version Information



2.Quick Start

This Manual is easy for the fresh user to build a mining farm and list miners quickly, and realize the monitoring and automatic O&M of miners in the AntSentry system.

You can perform operations in 2.1, 2.2 and 2.3 to monitor miners.

2.1 Install AntSentry Client

Download from www.antsentry.com or contact AntSentry's staff to provide AntSentry Client installation package to the mining farm

Operation Steps:

The field staff can double-click AntsSentry Client to install the package. (The name of client is AntSentry Client.exe).

When the following page is displayed, it means the package has been installed.





After installation, you need to find the .agent.txt file under the directory of the software. The contents in the file are the agentKey. The agentkey will be used for creating a mining farm.

X	New mining farm	Х
NA.	* Name of mining farm	
	* Agent key	
	Cancel	ОК

• The installed software must be enabled all the time during monitoring.

2.2 New Mining Farm

Click [New Mining Farm] under the [Mining Farm Management] in the upper right corner of the [Navigation Bar]. Enter the required information to generate a piece of data for a new mining farm.

Evide counting > Invest monitoring > Invest monitoring > Invest monitoring > Intersection >	Conline Rate () Total ()	0.00% Online Offline	🕞 Qualified Rate 🛈	0.009	6 E. Percentage	of HashRate 🛈 🛛 🛛	.00%
tto Management × arm × ats Contor × gs × ttings ×	Total O	Online Offline					
ats Center × 195 × ttings ×		0 0	Qualified O	Abnormal ③ 0	Real-time H O GH/	ashrate Theoretic 's O GH/1	cal 's
	Chart of miners		Curves of hashrate	and online rates		Hour	30 days 1% 0.8% 0 0.6% 0 0.4% 0 0.6% 0 0.4% 0 0 0.4% 0 0 0 0 %
	Unqualified (1) 0	Aining pool & sub-account		 Fasile 		7	
	Ne	w mining farm				×	
	*	Name of mining farm		* Agent key			
	Ac	dress of mining farm		Settlement Price	¥/kwh		
	N	umber of planned miners	5	Load	KW		
	×	√ ⁷		Cancel	ОК		
AntSentry Agents	Nat	,			EA	Il mining farms	
	Ameritan	Agent version number	Number of planned	miners Settle	ement Price Last up	dated	Operation

2.3 Set IP Segment for Scanning

On the [New Mining Farm] page, click [New] under the [IP Segment Management] in the left menu. A new IP segment to be monitored and scanned is added.

New IP for scanning		×
* Start of IP range		
Start of IP range		
* End of IP range		
End of IP range		
Note		
Note		
		11
	Cancel	ж

2.4 Set Mining Pool Whitelist

This is to trigger an alarm when any abnormality is detected in the mining pool, so as to further ensure the mining safety.

On the [New] page under the [Mining Pool Whitelist], set valid parameters of the miner & mining pool.

ew mining poo	l whitelist		>
Set name:			
#	Pool	sub-account	Password
First Pool			123
Second Pool			123
Third Pool			123

2.5 Shelf Setting

Miners are generally placed on rows of shelves in the mining farm. Users need to set the shelf capacity, start & end positions, and continuous IP or not.

Note: The IP segment for shelves must be within the range of the IP segments for scanning.

2.5.1 New Shelf - Continuous IPs

For example: Enter a mining area name [1] and a shelf name [Test]; select the start position as [Upper Left]; enter a capacity [100]; select [Yes] for the [Continuous IP or Not] parameter; set the start IP to [10.1.1.1] and the end IP to [10.1.1.100]; and click [OK]. A piece of shelf data is generated.

* Area		* Name of shelf
test		test
Start position		* Capacity
Upper left	~	100
Continuous IP or not		
🖲 Yes 🗌 No		
Start IP		* End IP
10 1 1 1		10.1.1.100

2.5.2 New Shelf - Discontinuous IPs

For discontinuous IPs, the layer name and start/end IP information are required for each layer.

Click [+] to add a new layer of shelves. Click [-] to delete a layer of shelves.

New shelf					
* Area			* Name	of shelf	
test			test		
* Start position			* Capaci	ty	
Upper left		\sim	100		
* Continuous IP or not					
 Yes ● No * Name of layer 	* Start IP			* End IP	
Name of layer	Start IP			End IP	
		+ New	ı layer		
				Cancel	ОК

2.5.3 Edit Shelf

Same as the [New Shelf]

2.5.4 Delete Shelf

Click [Delete] to delete a piece of shelf data.

2.6 List Miners in Batches

Click [List in Batches] under the [List and Remove in Batches] in the left menu. Upload a local excel file. Miners are listed in batches.

3.User Manual

3.1 About Test Mining Farm

After logging in to the AntSentry system, a new user will be identified as a visitor by default and have permission to view all menus of the [Test Mining Farm]. He/she can not perform any operations except for creating a mining farm.

3.2 Mining Farm Management

You can add, edit, delete, and view mining farms.

3.2.1 New/Edit

Click [New]; enter the required information; and then click [Save]. A new mining farm is added.

The [Agentkey] can not be modified.

3.2.2 View

You can view the basic information about a mining farm.

	-					
Name of mi	ning farm:测试		Agent key: afdb0e122461	dba357d7f7ec8c63383c		
Address of r	mining farm:		Settlement Price: ¥/kwh			
Number of p	planned miners:0台		Load: kw			
Total person	ns: 1					
lame	Mailbox	Tel	Role	创建时间		

3.2.3 Delete

Click [Delete]. The mining farm is deleted, and the page is not displayed.

3.3 Miners Overview

The page displays the whole mining farm from multiple dimensions, the operating status of the monitored miners, and hashrates.

Device averview	3 Online Rate		0.00%	Qualified Rate		0.00%	🗒 Percentage of HashRate 🕧	0.00%
Miners monitoring Miners monitoring Auto Management	Total	Online	Offline	Qual	fied	Abnormal ①	Real-time Hashrate	Theoretical
· <u>··</u> ·· Alarm ~	0	0	0	(0	U GH/s	U GH/s
B Logs ✓	Chart of miners			Curves of hashra	te and online rates			Hour 30 days
€ Settings ∨	Qualified 0 Offline 0 Unqualified ⊙ 0	e Cant start 2 zero Hash	ed 0 rate ⊙ 0	1 H 0.8 A 0.6 C 0.6 C 0.6 C 0.7 C 24 1550 C	37-24 20:00 07-25 01:00	07-25.0600 07-25.1130 07 • Hashrate	25 1660 07-25 2100 07-26 02:00 07-26 1	07:00 07-26 12:00 05
	Model Pool N	lining pool & sub-account						
	Brand	Model	Total	Qualified No	Offline No	Abnormal No	Real-time Hashrate	Monitoring time

3.4 List of Listed Miners

The page displays the summary list of data of all listed miners.

3.4.1 Search

In the [Search] area at the top, enter the search criteria. Results are displayed in a list and statistical chart.

3.4.2 Set List Display Field

You can set the [List Display Field] based on your needs. Click the [Setting] icon in the upper right corner. In the expanded area, select the fields to be displayed.



3.4.3 Remove a Single Piece of Data

Select a single piece of data, click [Remove] on the right side, enter the reason for removing the data, and click [OK].

3.4.4 Batch Operation

Batch operations involve [Remove], [Reboot], [Set Mining Pool], [Firmware Update], [Modify Customers], [Recover DHCP], [Turn on Location Light], and [Remove + Recover DHCP].

<u>₩</u>	Costomer: All V SN/P: Area: All x Racka:	
(Device overview	Pool: All V Sub-account: All V Model: Al x Firmware Versic All V	
 Miners monitoring 	IP Range: ~ Network: (i) All Online Offine	
On-shelf Miners	Fault Type: VII Qualified Zero hashrate Unqualified Can't started Invalid pool Search	
Hash overview		
Asset Miners	lotal () Unive () Umine () invalo pool () Zeeo Hasnare () Unquaineo () Centistareo ()	
🕼 Auto Management 🗸 🗸	Estimogenetics x Foot	
<u>☆</u> Alarm ~	IP SN Customer Model Network FaultType Theoretical Real-time Hashrate Mining pool 1 Off-Sheff Indong time Restart the Miner	
🔇 Stats Center 🗸 🗸	Configure worker-ID and Pool Firmware Update	
🖶 Logs 🗸 🗸	No Data Modify customer	
🗠 Settings 🛛 👻	4 Turn on location light	
	Remove + Recover DHCP Reset	

3.4.4.1 Remove in Batches

There are two reasons for removing miners: maintenance and relocation. Select the reason and range of miners to be removed. Click [OK]. Then miners are removed.

Remove in batches

* Reason of removal			\vee	
* Range of miners				
Selected miners				
All miners filtere	d in the list(0)			
Specify IP List	L Upload IP list (txt)			
		Cancel	ок	
				C
				• • •

3.4.4.2 Reboot

Reboot the active miners.

Select one or more miners, or all miners filtered in the list, or upload a list of assigned IPs. Unlike [Reset], this function can reboot all miners with zero hashrate.

Restart the Miner	Х
* Range of miners	
Selected miners(0)	
O Reboot all miners with zero hashrate	
 All miners filtered in the list(0) 	
Specify IP List L Upload	
	Cancel

3.4.4.3 Set Mining Pool

Select the mining pool group to be configured. The information about the selected mining pool group is displayed automatically in the lower part. Select one or more miners, or all miners filtered in the list, or upload a list of assigned IPs.

Click OK. Then the mining pools are set.

Click the hyperlink of [Set Mining Pool Whitelist] to jump to the [Set Mining Pool Whitelist] page.

Pool Group	100	✓ Set minin	ng pool whitelist	
ol Group Infe	, ,			
Pool	Pool	sub-account	Password	Mining rig name suffi
1			123	● IP ○ Do not change
2			123	 IP Do not change
3		-	123	 IP Do not change

Cancel OK

3.4.4 Firmware upgrade

Select a model

Select the upgrade version

Select a check box under the [Clear Miner & Mining Pool Settings] (The

[Maintain Current Miners Settings] is checked by default)

Force an update (checked by default)

Select one or more miners within the range of miners, or all miners filtered in the

list, or upload a list of assigned IPs.

Click [OK]. The firmware of selected miners is upgraded.

	Firmware Update						
	* Model	* Firmware Version					
	V						
	* Clear miner & mining pool settings						
	 Retain the Configuration 						
	Clear and Use Default Configuration						
	Forced upgrade						
~	Only update miners of the same model and dif	fferent firmware versions					
$\sim \odot$	* Range of miners						
v 5	Selected miners(0)						
	 All miners filtered in the list(0) 						
A L	Specify IP List L Upload IP list (txt)						
U							
		Cancel OK					

3.4.4.5 Modify Customers

Select a target customer

Select one or more miners within the range of miners, or all miners filtered in the list, or upload a list of assigned IPs.

Click [OK]. The selected miners are transferred to the target customer.

Modify cus	stomers	Х
* Target Custo	omers	
		~
* Range of mi	ners	
Selected m	niners(0)	
 All miners 	filtered in the list(0)	
Specify IP	List Lupload IP list (txt)	
	Cancel	ок
3.4.4.6 Recover DHCP		
Recovering the DHCP is to	recover the dynamic IP a	llocation of miners
Recover DI	НСР	× MO
* Range of mi	iners	
Selected r	miners(0)	
 All miners 	filtered in the list(0)	
Specify IP	List List Upload IP list (txt)	
	Cancel	ОК

3.4.4.7 Turn on Location Light

You can turn on location lights of miners to help the onsite O&M personnel to locate miners easily.

Select miners, and click [OK]. The location lights of these miners are turned on. (This function is available for 17 series and above miners only.)

X	Turn on location	light		Х
	* Range of miners			
A.	Selected miners(0)			
	All miners filtered	in the list(0)		
	Specify IP List	⊥ Upload IP list (txt)		
			Cancel	ОК

3.4.4.8 Remove + Recover DHCP

You can remove miners and recover the dynamic IP allocation of miners.

* Range of miners		
Selected miners		
All miners filtered	d in the list(0)	
 Specify IP List 	L Upload IP list (txt)	

3.4.4.9 Reset

Perform a factory reset of the active miners.

Select one or more miners, or all miners filtered in the list, or upload a list of assigned IPs.

* Range of miners			
 Selected miners 			
 All miners filtere 	d in the list(0)		
Specify IP List	스 Upload IP list (txt)		

3.4.4.10 Delete

Delete the monitoring over the miners IPs from the system.

3.5 Miners Monitoring View

3.5.1 Miners Monitoring View

After searching based on the search criteria, research results are displayed in zones in the lower part. Each zone displays all information about a miners listed on a shelf.



3.5.2 Miners Monitoring View - Shelf Details

Click any shelf. The [Shelf Details] page is displayed, showing the operating status of each miners on the shelf. It visualizes the miners and helps to locate the physical location and operating status of each miners more intuitively.

₽	2厂房-111 2021-07-27 14	:31:49			Refresh
Device overview	Sites 80	57 Offline 1	Abnormal bashrate 0	inty Site 22	
Miners monitoring		on the f		pry 500 LL	
🕼 Auto Management 🗸 🗸		Position1	Position2	Position3	Position4
Ճ Alarm Y	Layer1	•		•	•
🚫 Stats Center 🗸 🗸	Layer2	•			•
唇 Logs Y	Layer3				
🖸 Settings 🛛 👻	Layer4	•			
	Layer5	•			
	Layer6				
	Layer7	•			
	Layer8				
	Layer9	•			•

When the mouse hovers on a miners, the specific operating parameters of the miners are displayed.

	Sit	tes 80 Qualified	57 Offline	1	Abnormal hashrate 0	npty Site 22	
			Position1		Position2	Position3	Position4
Miners monitoring	×	Layer1					
🕐 Auto Management	×	Layer2					
ற் Alarm	×	Layer3		2Layer Pos	ition2 Qualified		
	* 	Layer4		Moi	IP 192.168.111.16 del: T17E vic Online	i •	
e Logs	Č.	Layer5		Durati Fault Ty	on: 50h25m7s pe: Qualified		
		Layer6		SN: YDFF60BBJABCJ00J3 Real-time 51413.16		•	
		Layer7		Hashra 30m hashra	ate: ate: 51524.02		
		Layer8		AVG Hashra Hashboa Ter	ate: 51565.32 ard: 3 mp: 47	1 A A	
		Layer9			48 48		
		Layer10		Last si tir	can 1m55s ago ne:		
		Layer11		e .	-	•	

3.6 Hashrate Overview List

It shows the hashrate operation of each miners.

3.6.1 Hashrate Curve

Click [View] at the end of each piece of data. You can view the hashrate curve of the miners. (hourly)



3.6.2 Export Data

Click [Export Aggregate Hour Hashrates]. You can export the 24-hour hashrates of the mining farm, one piece of data per hour. (excel title: Aggregate hour hashrates of XX mining farm_export time)

Click [Export Hashrates of Miners]. You can export the hashrate data of all miners in the current mining farm within a certain period, (excel title: XX mining farm_export time)

Customer:	All V Miner IP:		Miner IP: Model:			All	×
Time:	2021-07-26	→ 2021-07-27	Ē	Search			
						Export ~	
Date	IÞ	Model	Customer	Theoretical	24-hour hashrate (00:	 ✓ Exporting all miners hashrate 	ation
			102			Export aggregate hour hashrates	

3.7 Asset miners

It shows data of all miners monitored in the system, including those listed and removed.

3.7.1 Search and Data Statistics

After searching based on the search criteria, the number of miners, number of miners listed, and number of miners removed are counted based on the search criteria. The data list below is also displayed based on the search criteria.

I I I I I I I I I I I I I I I I I I I	Customer:	All	SN/IP:		Model:	All ×	Miner Status:	All	v
O Device overview	Area:	All×	Racks:		Search				
Miners monitoring									
🕼 Auto Management 🗸 🗸	Total 654	On-shelf 595	Off-shelf 59						
☆ Alarm Y							Batch oper	ration v Export	
O Stats Center V	O IP	SN	Area	Racks	Model	Customer	Network	Miner Status	Mc

3.7.2 List

Removed miners can be re-listed after entering IPs.

On-Shelf	Х
* IP	
	Cancel

3.7.3 Delete

Delete the monitoring over the miners IPs from the system.

Are you sure you want to delete the mining rig? Jaill. com

ОК

Cancel

3.8 Auto Management - Auto Reboot

After the [Auto Reboot] is set, when the system detects any miners that meets the criteria, it will reboot the miners and generate an auto reboot report automatically.

3.8.1 Auto Reboot Setting

*You can set the auto reboot after the auto reboot switch is turned on.

*Auto reboot time frame: for example, from 20:00 to 22:00.

*Hashrate index: If a miners meets any one of the following three criteria: [Zero Hashrate], [Mining Program Error], and [Hashrate Below Threshold], it will reboot automatically.

*Setting: The auto reboot will be triggered if the duration of zero hashrate and hashrate below threshold reaches XX.

Some miners may still have the hashrates below the threshold after rebooting and undergo repeated reboots. You can set the [Maximum Number of Auto Reboots] to prevent this situation.

Auto restart settings	×
Auto reboot:	
Auto reboot time frame Select time O ~ Select time O	
Hashrate index:* Zero hashrate: real-time hashrate = 0 * Mining program error	
Hashrate below thresholdActual hashrate/theoretical hashrate < 0 % (Exclusive of situations where this is no hash board)	
Settings * Duration of zero hashrate and hashrate below threshold 0 minute	
* Maximum number of reboots of a mining rig in a day 0 次	
Auto mining rig reboot, if zero hashrate or a mining program error occurs or hashrate duratio is less than minutes. A mining rig can be rebooted up to times in a day.	n Oll
Cancel	к
onditions are displayed in red.	it.
eport	× 10°

All configured conditions are displayed in red.

3.8.2 Auto Reboot Report

The system generates an auto reboot report after each auto reboot. The report displays details of the task. Click [Successful Reboots] and [Failed Reboots] to view the details.

3.9 Auto O&M - Password Change

The password of miners must be changed frequently for safe mining. The AntSentry supports changing passwords manually and automatically.

3.9.1 Change Password Automatically

If the function is enabled, you can select the settings (every 1, 2, 3, or 6 months). When the valid period expires, the system will automatically change the passwords of all miners in the mining farm. The passwords are generated automatically by the system.

X	Change password a	utomatically	
211	Turn on: 🛑		
· A·	* Set validity period :	1 months	v
<i>L</i>	The system automatic	1 months	expiration, requiring no manual operation.
	By default, the system	2 months	niners. Time for next change: 2021-08-26
		3 months	
		6 months	Cancel

3.9.2 Change Password Manually - Change Passwords of Some Miners

Specify the IP segment of the selected miners, or upload the IP list of miners whose passwords are to be changed. Click [OK]. The passwords of these miners are changed in batches.

Change password manually	X
Change password manually: IP range Change all	
* Upload: Upload attachment bxt format	Court OK

3.9.3 Change Password Manually - Change Passwords of All Miners

Select [Change All] and click [OK]. The passwords of all miners in the mining farm are changed.

Change password manually	×	COIL
Change password manually: O IP range) IP change all	•	J.C.
	Cancel OK	

3.10 Alarm

At present, there are hashrate fluctuation alarms, NUC disconnection alarms, miners disconnection alarms, invalid mining pool alarms, and dead pool alarms.

3.10.1 Hashrate Fluctuation Alarm Setting

*Enable: Alarm switch

*Threshold: Enter a figure. When the hashrate is below XX, an alarm is triggered.

Or enter a percent. When the hashrate decreases by XX%, an alarm is triggered.

*Select alarm mode: by SMS and/or Email

*Contact: Select the contacts to be informed. The information about the contacts is displayed below.



3.10.2 NUC Disconnection Alarm Setting

*Enable: Alarm switch

*Select alarm mode: by SMS and/or Email

*Contact: Select the contacts to be informed. The information about the contacts is displayed below.

The system triggers an alarm when it detects the NUC alarm.

3.10.3 Miners Disconnection Alarm Setting

*Enable: Alarm switch

*Threshold: An alarm is triggered when the number of offline miners reaches XX

*Select alarm mode: by SMS and/or Email

*Contact: Select the contacts to be informed. The information about the contacts is displayed below.

3.10.4 Invalid Mining Pool Alarm Setting

*Enable: Alarm switch

*Select alarm mode: by SMS and/or Email

*Contact: Select the contacts to be informed. The information about the contacts is displayed below.

An alarm is triggered when the system detects that the mining pool set for the miners is not in the mining pool whitelist

3.10.5 Deal Pool Alarm Setting

*Enable: Alarm switch

*Threshold (multiple options): One Pool Dead (an alarm is triggered when the system detects that one pool is dead); All Pools Dead (an alarm will be triggered when the system detects that all pools are dead).

*Select alarm mode: by SMS and/or Email

*Contact: Select the contacts to be informed. The information about the contacts is displayed below.

3.10.6 List of Alarms

After each alarm, an alarm record is generated and displayed in the list of alarms.

	<u>1</u>						
			Recipient: Please enter		Alarm type: Please select	✓ Sending Time Please select	→ Please select
	Miners monitoring	Ý					Reset Query
	Auto Management	~					
		~	Operation Log				CI®
			Recipient	Alarm type	Alarm content	Notification Ways	Sending Time
6	Alarm setting		shulei.cheng	miner	[AntSentry]	SMS	2021-07-25 11:55:28
	Chate Center	J	BM-Eybgax-pengcheng.an	miner	[AntSentry]	SMS	2021-07-25 11:55:28
			shulei.cheng	miner	[AntSentry]	SMS	2021-07-24 19:51:36
	Er Logs	Ť	BM-Eybgax-pengcheng.an	miner	[AntSentry]	SMS	2021-07-24 19:51:36
	 Settings 	Ň					

3.11 Monitoring & Mining Pool Hashrate Comparison

You can search by sub-account. The data under all sub-accounts is displayed by default.

3.11.1 Hashrate Curve

* The 1-hour and 1-day hashrate curves are displayed.

* The 1-hour hashrate curve displays data for the last 24 hours

*The 1-day hashrate curve displays data for the last 15 days

There are three curves, representing the theoretical hashrate, monitor hashrate, and mining pool hashrate respectively

3.11.2 Set Observer URL

It links to a list of data by sub-accounts.

You can set an observer URL for the data of each sub-account. Only when the t. com URL is set, you can obtain the mining pool hashrate data.

* Change Observe URL

Click [Change] to replace the new observer URL.

Set observer URL		×	R
* Observer URL			
	Cancel	OK	

* Delete Observe URL

You can delete the configured observer URL(s).

3.12 Income Estimate

Based on the model & number of miners, electricity cost, and other information, you can calculate the mining profit under a single sub-account within a certain period. 3.12.1 Operation

Take the BTC as an example

* In the [Currency] list, select [BTC]. The hashrate profit per T and the current BTC price are displayed automatically.

*In the [Sub-account] list, select [Test]. The data of all miners under the Test sub-account in the current mining farm are displayed automatically.

*Enter the electricity cost, other O&M costs, and start time & end time of mining. Click [Calculate]. The income calculation results are displayed below. The results include daily profits and the profits within the mining period.

0.00000899 BTC/Day	Coin price: 239671.6 CNY
Sub-account:	
Number:1 Power consumptic Hashre	
Electricity Fee: 0.35 CNV/Day Other costs: 100	CNV/Day Start time and end time: 2021-07-27 → 2021-08-27
	Calculate
	Calculation results
Daily profit	Mining profit
Daily profit	Mining profit Theoretical 4320.00TH/s
Daily perfet Theoretical 125.00TH/s Mining output 0.00121865 BTC 9208 8208	Theoretical 4320.00TH/s Mining output 0383888 BTC V9393606
Deby profit Theoretical 135.00TH/s Mining output 000121965 BTC +290.88 Bectricity for #27.30	Theoretical Mining output: Blectricity Fee ¥873.60
Daily pends Theoretical 135.00TH/s Mining output 000121865 BTC ¥39088 Electricity Fee ¥2730 Other costs #10000	Mining profit Theoretical Mining output 4320.00TH/s 0.0383858 8TC 49300.05 Electricity Fee 4973.60 Other costs 42300.00
Theoretical 135.00TH/s Mining output 0.00121865 STC Valid Stress 0.0012185 STC Cher costs 110000 Cher costs 1163.9	Theoretical 4320.00714/s Mining output 0.0388368 BTC Ubtricity Fee ¥973.60 Other costs ¥3200.00 Griss profit ¥2324.48

3.13 Operation Logs

You can record operation logs in batches. Batch operations involves [List in Batches], [Remove in Batches], [Delete in Batches], [Modify Customers], [Reboot in Batches], [Change Theoretical Hashrate], and [Get Status Logs].

3.13.1 View

To view operation records, click [View]. The [Details] Page is displayed, then you can view the IP, SN, and operation results of the active miners.

3.13.2 Export

*Click [Export]. The operation log records on the page are exported to the local.

*On the [Details] page of each operation record, click [Export]. The specific data of the active miners is exported to the local.

3.14 Logs of Mining Pool Changes

It records the logs of mining pool changes of miners. The information about mining pools before and after the change is displayed. Click [Export]. You can export data to the local

3.15 Settings

You can set basic parameters of the mining farm on the [Settings] page.

3.15.1 List and Remove in Batches (the same as 2.6, not detailed here)

Click [Upload]. After uploading a local excel file successfully, you can list or remove miners in batches.

Batch off-shelf	×
* AgentKey	
76815193046726574a17117ea3f8d200	
* Excel file (only .xlsx files are supported)	
Upload Excel file (column A: IP, column B: SN, column C customer)	: name of
Cance	el OK
anagement (the same as 2.3, not deta	iled here)

- 3.15.2 IP Segment Management (the same as 2.3, not detailed here)
- 3.15.3 Mining Pool Whitelist (the same as 2.4, not detailed here)
- 3.15.4 Shelf Setting (the same as 2.5, not detailed here)
- 3.15.5 Role Management

Each mining farm has three fixed roles (visitor, administrator, O&M). You can also set other roles and their menu permissions based on your needs.

3.15.5.1 New Role

Enter a role name; select the menu permissions; enter remarks; and click [OK]. A new role is generated.

	New role		:	×
	Mining farm			
	* Role Name:			
WHH OIL'S	* Menu permiss	 Miners monitoring Auto Management Alarm Stats Center Logs Settings 		
	Note:			
			Cancel OK	

3.15.5.2 View Role

Click [View]. On the [View] layer, all information about the role is displayed.

3.15.5.2 Edit Role

Click [Edit]. You can change the role name and menu permissions

3.15.5.3 Delete Role

Click [Delete]. You can delete the role

3.15.6 Personnel Management

You can add, authorize, edit, and delete a person

Below are steps to add and edit a person only. The steps to delete a person are not detailed here.

3.15.6.1 New Personnel

Enter the name, phone number, and Email. Click [OK]. A new person is added.

		Dr.
	① Enter email address and phone number registered in User Center	0
* Tel:	86 ∨	
* Mailbox:		

3.15.6.2 Authorize Personnel

The administrator can authorize a role for the new personnel. After authorization, the role's permissions are displayed.

	Authorize	•	×
	Name		
XF	Role: 0&M		\sim
Der	Role Authority:	Miners monitoring	
· ·		 Auto Management 	
		▶ Alarm	
		 Stats Center 	
		► Logs	
		 Settings 	
		Ca	ancel OK

3.15.6.3 Delete Personnel

Click [Delete]. After confirmation, click [OK] to delete the personnel.

3.15.7 Customer Management

In each mining farm, you can manage the customer information, including the operations to add, edit, delete, and view customers.

3.15.7.1 New Customer

The [Customer Name], [Customer Account], and [Customer Address] are required fields; and others are optional.

* Customer Name:				
Contact:				C
* Customer account:	Mailbox 🗸	()	•	·()·
Electricity price of host	ing: ¥/kwh		02) í
* Shipping address:			* ر	

3.15.7.2 View Customer

Click [View]. In the [View] list, you can view the customer information.

3.15.7.3 Delete Personnel

WWW. ant sentery

Click [Delete]. After confirmation, click [OK] to delete the customer.