KAS KS 3&3L

MANUAL

ICERIVER



Table of Contents

1. Product Overview	2
1.1 Appearance	2
2. Function	4
2.1 Start up	4
2.2 Access Machine	6
2.3 Language Switch	7
2.4 Change Password	8
2.5 Configuring mining pools and wallets	9
2.6 View Hashrate Chart	12
2.7 Network Settings	13
2.8 Firmware Upgrade	14
2.9 Factory Reset	15
2.10 Shutdown/Reboot	16
3 Common Faults and Solutions	17
3.1 Faults Solutions	17



1. Product Overview

1.1 Appearance







*Indicator Description:

Machine Status	Indicator light status
Running Normally	D2 light blinks, D1, D3, D4 lights are off.
Fan Abnormality	D1, D3 lights blink, D2, D4lights are off.
Network Issues	D1, D2 lights blink, D3, D4 lights are off.
High-temperature Alarm	D2, D3 lights blink, D1, D4 lights are off.

Interface specification:

Power interface	AC power input:
	180V285V 50-60HZ

2. Function

2.1 Start up

2.1.1 Precautions

- Check whether there is physical interference causing damage to the machine and beware of electric shock.
- Please check if the cable connection is firm before powering on, and pay attention to the safety of electricity.
- Keep the hash board and other parts away from water or exposed to moisture.
- Please make sure the ambient temperature is between 0-35° C.
- Please avoid covering the surface of the machine due to the high temperature of the machine surface during operation.
- Do not place flammable and explosive substances around the machine during operation.
- Please make sure the humidity of the environment is below 90%.
- Please keep the environment clean to prevent dust, hair, willow and other foreign objects from entering the machine and causing damage to the machine.
- Use a stable voltage.
- The machine, hash board or board parts being crushed or burned due to improper environment is not covered by the warranty.
- Customers should not disassemble the machine by themselves without permission from ICERIVER after-sales team.

2.1.2 Check before start up

Preliminary inspection of the miner before operation:

- Check the appearance of the package for deformation.
- Check the appearance of the machine for deformation and breakage. Also check the fan and cable.
- Check if there is any strange sound in the machine and observe if the heat sink is off.

*Note: Please do not disassemble the machine by yourself. The machine will not be covered by the warranty if the user disassembles the machine without permission.



2.1.3 Boot

Please connect the miner to the Ethernet first, and then plug in the power cord. Turn on the machine, during the boot process, the red and green indicator lights on both sides will remain steady. Wait until the L2 indicator light blinks (if it doesn't blink for more than 10 minutes, please check the network), and the L1, R1, R2 indicator lights all go off. This indicates that the miner has started successfully.

2.2 Access Machine

2.2.1 Obtain Machine IP

- Obtain the IP address of the machine through download and unzip the batch processing tool provided by our company (please refer to the official website to download: https://www.iceriver.io/tutorial/).
- 2. Click the [Detect IP] button and long press the machine's IP button for 1-2s after the pop-up window to get the machine IP.

Miner Management IP Configuration Upgrade Settings Miner IF Start Sean Reboot Config Reset DHCP Change fan Detect IP Anto Monitor Interval:5 minutes All Total(1) Only Shee Conserved X Ker3 Vers Miner IF Status Max Detect IP X Ker3 Vers 192 168 0.222 Online 1155 IP 192 100 0.202	√ 2n. Fan.Hu 0_0410 2
All Total(1) Only Ske Constant Miner IF Status Was 192-168-0.232 Online 115 192-168-0.232 Interview Stephane	on Fan Hu 0_0410 2
122.168.0.232 [074]iaa 115 12 148.0.232 148.0.232 149.168.0.232 149.	0_0410 2
Cancel	

2.2.2 Access Machine

- 1. Open your web browser (Chrome browser is recommended) and enter the machine's IP address in the address bar. You will see the following interface.
- 2. Use the default username "admin" and the default login password "12345678" to log in to the machine.

	Login
Name	
Password	

2.3 Language Switch

1. Click [Language] in the upper right corner of the page to switch between Chinese or English.

	刷版时间:	2023-06-06 19:58.36								中文 💙 登出
首页 矿机设置 IP设置	5分钟第 风扇转 矿机温	育力 正常 速 正常 度 正常	5分钟算力 58 GH/s		30分钟算力 8 GH/s	矿池拒绝率 0 %		矿机运行 00天	^{5时间} 00 时 07	分44秒
用户设置 固件升级	800	H/s			算力曲线图 左端影响的文化在cor用立动可以听动影响					
	800 7 200 200	H/3	chair0.00	CH/s						
	00	H/8	0 mins		— 算力曲线图		S min	15		
	矿油 矿油	矿池地址		线包	8地址矿工名	矿池连接	Diff	Priority	Accepted	Rejected
	1	stratum+tcp://ru.kaspa.hero	ominers.com:1208	kasş xae0	pa.qrknmlwhyj49vmgkfur8ap4jda79zfynz0zl 0578q9s5urktrhsw vital	hqr6nk 连接中	17592.19 G	1	1	0
	2	stratum+tcp://16.163.186.4	9.15837	kasp 4bra	pa:ndm9tlsgdmrcha4pg83lwwrka0gjya38teh anavmh7rkvxuzd6w2a.netalinux_confia1300	10g5qc 未達線 10a350	0.00 G	2	0	0
	版本信息 BC	OT_2_0.BIN image_1.0 iceriver_	miner_1.0 bg_1.0 IP 192.16	8.2.23 MAC 0	00.0a.35.00.1e.53				恢复出	「设置」重启矿机

2.4 Change Password

To protect your property security, please change the miner password after the first time you turn on the machine.

1. Click [User Settings], enter the current password and the new password as shown below, and click the [Save] button.

	Refresh time 2023-06-06 10:18:14	en 🗸 logout
Home Mining setting	Reset password	
IP Settings	Current password	
User setting	New password	
Firmware upgrade	Confirm password	
		Save
	Version BOOT1.0_0410 BIN image_10 kerver_0603_v2_0miner.bgz IP 152.168.0.232 IAAC 00.0x35.00.1e.53 Restore factor	ry settings Restart

2. After the password change is completed, you need to log in again with the new password.

2.5 Configuring mining pools and wallets

2.5.1 Add

1. Go to the [Mining Setting] page and find [Pool Configuration].

	Refresh time 2023-06-06 10 18:14		en v logout
Home Mining setting IP Settings	Locate miner Pool configuration		
User setting Firmware upgrade	Pool abor: Walletworker Pool [stratum+tcp://16.163.168.49.15837] [kaspa qoxs2gmv7mk27] Pool2 [stratum+tcp://18.163.39.109.13241] [kaspa qoxs2gmv7mk27] Pool3 [stratum+tcp://18.163.39.109.13241] [kaspa qoxs2gmv7mk27] Hardware configuration [Kaspa qoxs2gmv7mk27]	Passwordu.ppsona) ssrluhq9yd86s75 ssrluhq9yd86s75	
	□ Fan speedparcent) 100 % Mode Normat ~		Save
	Version BOOT1.0_0410.BIN image_1.8 kerlver_0603_v2_0miner.bgz IP 192.168.0.232 MAC 00.0x3500.1e.53	Restore la	ctory settings Restart

You can configure three mining pools with the following reference example: Pool1: stratum+tcp://eu1.kaspa-pool.org:4444 Wallet/Worker: kaspa:ndm9tlsgdmrcha4pg83lwwrka0gjya38teh0g5qc4prapavmh7rkyxuzd6w2w.worker

Wallet address

Worker name

- * The password is optional and can be set or not, it does not affect mining.
- 2. Click Save and a configuration success window will pop up.
- **3.** After successful configuration, click [Reboot] and wait for the machine to reboot (do not power off during the reboot process).
- 4. The information on the home page shows that the pool is " connected ", which means the pool is successfully connected.

ICEF	RI	VE	R							KS3	&3L Us	ser Mar	iual
	Refresh tim	CH/s											en v logou
Mining setting		0 mins	5 mins	10 mins	15 mins	20 mins	25 mins — Miner hashrate	30 mins	35 mins	40 mins	45 mins	50 mins	55 mins
User setting	Pool Pool	Pool addr.			Wallet/Wo	orker			Pool state	Diff	Priority	Accepted	Rejected
Firmware upgrade	1	stratum+tcp://eu1.kas	pa-pool.org:4444		kaspa:qp> 6jwpzsxko	ksj2gmv7mk27 :8f7m6nxt2c2.1	asrluhq6yd86s75jk0 144	9rsru0j95	Connected	17592.19 G	1	232	0
	2	stratum+tcp://eu1.kas	pa-pool.org.4444		kaspa:qpx 6jwpzsxko	ksj2gmv7mk27 8f7m6nxt2c2.1	asrluhq6yd86s75jk0 144	9rsru0j95	Unconnected	0.00 G	2	0	0
	3	stratum+tcp://eu1.kas	pa-pool.org:4444		kaspa:qpx 6jwpzsxko	csj2gmv7mk27; :8f7m6nxt2c2.1	asrluhq6yd86s75jk0 144	9rsru0j95	Unconnected	0.00 G	3	0	0
	Hash boa	rd											
	Hash b	bard		30 mins ha	ashrate				TEMF	1		TEMP 2	
	1			273.66G					33 °C			49 °C	
	3			361.62G					33 °C			50 °C	
	Fans						Fan 1				Fan 2		
	Speed(r	/min)					3710				3665		

*The default pool configuration is the configuration of our company when testing, please configure your own mining wallet address before you start mining, please do not use the default configuration.

*If pool 1 is not connected, the machine will automatically connect to pool 2. If pool 2 is not connected, the machine will automatically connect to pool 3.

* If the configuration fails you can configure it again and restart it.

KS0,1,2,3L compati	ble mining po	pols:
Humpool	PPLNS	stratum+tcp://kas.eu1.humpool.com:18083
Kaapa-pool	PPLNS	<pre>stratum+tcp://eul.kaspa-pool.org:4444</pre>
Kaspa-poor	SOLO	stratum+tcp://eul.kaspa-pool.org:4441
Woolymooly	PPLNS	<pre>stratum+tcp://pool.eu.woolypooly.com:3112</pre>
woolypooly	SOLO	<pre>stratum+tcp://pool.eu.woolypooly.com:3113</pre>
Herominers	PPLNS	stratum+tcp://ru.kaspa.herominers.com:1208
	SOLO	stratum+tcp://ru.kaspa.herominers.com:1208
17.1 1	PPLNS	stratum+tcp://eu.kaspa.k1pool.com:23112
KIPOOI	SOLO	stratum+tcp://eu.kaspasolo.k1pool.com:23114
Accpool	PPLNS	<pre>stratum+tcp://acc-pool.pw:16061</pre>
F2pool	PPLNS	<pre>stratum+tcp://kas-euro.f2pool.com:1400</pre>
Kryptex	PPLNS	<pre>stratum+tcp://kas.kryptex.network:7777/6666</pre>
	PPLNS	<pre>stratum+tcp://stratum.tw-pool.com:10005</pre>
tw poor.com	PPLNS	<pre>stratum+tcp://stratum2.tw-pool.com:10005</pre>
2miners	PPLNS	stratum+tcp://kas.2miners.com:2121

The following mining pools are known to be compatible, and will be continuously updated: KS0,1,2,3L compatible mining pools:



KS3 compatible mining pools:

Humpool	PPLNS	<pre>stratum+tcp://kas.eul.humpool.com:18083</pre>
Kaspa-pool	PPLNS	stratum+tcp://eul.kaspa-pool.org:4444
F2pool	PPLNS	stratum+tcp://kas-euro.f2pool.com:1400
tw-nool com	PPLNS	<pre>stratum+tcp://stratum.tw-pool.com:10005</pre>
tw-pool.com	PPLNS	<pre>stratum+tcp://stratum2.tw-pool.com:10005</pre>

* The above mining pool information is the mining pool address we used for testing purposes. Before connecting to the mining pool, please log in to the respective mining pool's official website and check if the mining pool address has changed.

2.5.2 Remove

1. Clear the information in [Pool Configuration] and click [Save] to remove the mining pool.

2.5.3 Adjusting fan speed

- 1. Find [Hardware Configuration] in [Mining Setting].
- 2. Check [Fan Speed].
- 3. Select the operating mode or manually adjust the fan speed (Note: After manually adjusting the fan speed, the automatic speed control function will be disabled, be cautious of high temperatures). After making the changes, click on "Save."

	Refresh time 2023-06-06 10:18:14	en 👻 logout
Home Mining setting	Locate miner	
IP Settings	Pool configuration	
User setting Firmware upgrade	Pool addr. WalletWorker Password(Optional) Pool f stratum+tcp://16.163.186.46.1563.7 kaspa.qpxsj2gmv7mk27asrluhdjvdd6s75 • Pool 2 stratum+tcp://18.163.38.109.13241 kaspa.qpxsj2gmv7mk27asrluhdjvdd6s75 • Pool 3 stratum+tcp://18.163.39.109.13241 kaspa.qpxsj2gmv7mk27asrluhdjvdd6s75 •	
		Save
	Version BOOT10_0410 BIN image_10 icerive_0603_v2_0miner/bgz IP 192.168.0.232 MAC 00.0a.35.00.1e.53 Rostore factory set	tings Restart

* After powering on, the fan will operate at a low speed. Only after the self-check process, the fan will start running at full speed. The default fan speed is set to maximum. If the self-check detects any fan abnormalities, the mining process will not begin.

* The machine will stop mining in sleep mode.

2.6 View Hashrate Chart

1. Click [Home] to view the Hashrate Chart.

* After 5 minutes of connecting to the pool, you can view the miner's hashrate and hashrate chart, the chart is updated every 5 minutes.

* Under Hash board, you can view the machine temperature and fan speed, which can monitor the working status of the machine in real time.

Home 5 I Mining setting Fa	mins hashrate Normal an speed Normal	5 mins hashrate	30 mins hashrate					
IP Settings	nne temp. Norman	100 GH/s	15 GH/s	Pool rejection rate 0 %		Miner running time 00 d 00 h 15	• 5 m 33 s	3
User setting Firmware upgrade	1230H3 1500H3 500H3 500H3 500H3 200H3 200H3 200H3	Left dick	Miner hashrate	lide the image	\$ mins			
Po P 1	ool Pool ddr 1 stratum+tcp://16.163.186.49	Wallet/Wo 15837 kaspa qpx 6jywpzsko	Miner hashrate	Pool state Diff Connected 549.76 G	Priority 1	Accepted F 64 0	Rejected	

2.7 Network Settings

The factory default is DHCP mode, users can set the IP mode according to their needs. Set static IP:

1. Click [IP Settings], select *Static* in [Protocol], fill in the IP information according to the user, and then click [Save] button.

2. After saving the configuration, click [Reboot] and wait for the machine to reboot (do not power off during the reboot).

	Refresh time 2023-06-06 10:29:53		en 🗸 logout
Home Mining setting		IP configuration	
IP Settings User setting	Network information	eth0 MAC: 00 0a:35 00:16:53 [P: 192 168 0 232 Subnet mask: 255 255 255 0	
Firmware upgrade	Host name Protocol	petalinux_config13 Static •	
	IP Subnet mask	192 168 0 232 255 255 255 0	
	Gateway DNS server	192.168.0.1 199.168.0.1	
			Save
	Version BOOT1.0_0410.BIN image_1.0 icertver_0603_v2_0miner.bgz IP 192.168.0.232 MAC 0	00.0a.35.00;1e:53	factory settings Restart

2.8 Firmware Upgrade

When the official website releases a new upgrade package, download it and upgrade it via Web.

- 1. Click [Firmware Upgrade], select the official upgrade package and click [Upgrade].
- 2. Wait for the pop-up window to show success and then click [Reboot] and wait for the machine to reboot (do not power off during the reboot process).
- 3. After reboot, the firmware upgrade is successful.

	Refresh time 2023-06-06 10:29:53			en 🗸 logout
Home Mining setting		Firmware upgrade		
IP Settings User setting	Firmware file	□ Keep the settings	Select File	
Firmware upgrade				Update
	Version BOOT1.0_0410.BIN image_1.0 iceriver_0603_v2_0miner.bgz IP 1	92.168.0.232 MAC 00.0a.35.00.1e.53	Restore factory	settings Restart

2.9 Factory Reset

When the machine has abnormal conditions, you can restore the factory settings through the Rest Button on the machine.

- 1. Press and hold the reset button for 5 seconds until the D3 and D4 lights start flashing simultaneously. After that, wait for the D3 and D4 lights to stop flashing and remain steady, indicating that the machine is in a reboot-ready state (Do not power off the machine during the reboot process).
- 2. After the machine reboot, reconfigure the mining pool and wallet to resume mining.

2.10 Shutdown/Reboot

2.10.1 Shutdown

1. Turn off the machine via the miner power button.

2.10.2 Reboot

- 1. Click [Reboot] in the bottom right corner of the home page, then click [OK] to confirm, then reboot the machine.
- * Note: do not power off the machine during the reboot process.

ICERIVER	Refresh time 2023-06-07 16:34:46	-		en v logout	
		Confirm restarting the mining machine?	×		
Home	5 mins hashrate Normal	5 mins h	Cancel OK rejection rate	Miner running time	
Mining setting	Fan speed Normal	103 000 65 000		00 d 00 h 26 m 49 s	
IP Settings	Miner temp. Normal			00 0 00 11 20 11 40 3	
User setting					
Eirmuere ungrado	Miner hashrate				
Filliware upgrade	Left click to assem the image Press and hold critical of the click to sidde the image 12500 s.				
	75CH/s				
	SOCH/s				
	OCH/s 0 mins	S mins	10 mins 15 mins	20 mins	
	Miner hashrate				
	Pool				
	Pool Pool addr.	Wallet/Worker	Pool state Diff	Priority Accepted Rejected	
	1 stratum+tcp://16.163.186.4	9:15837 kaspa.qrknmlwhyj49vmgkfurða xae0578q9s5urktrhsw.vital	p4jda79zfynz0zhqr6nk Connected 137.44.G	1 1104 0	
	Version BOOT1.0_0410.BIN image_1.0 iceriver	miner_1.0 bg_1.0 IP 192.168.0.232 MAC 00.0a/35/00.1e/53		Restore factory settings Restart	

3 Common Faults and Solutions

3.1 Faults Solutions

- 3.1.1 Power Supply
- Cannot be turned on the machine after connecting power and turning on the power button:

1. Check whether the power connector is loose or off, and whether the power cord is inserted tightly.

2. Verify that the power supply input voltage is within the specified operating voltage range (AC 180V - 285V).

3.1.2 Network

• Network port light does not light up:

Check if the network port is plugged in.

3.1.3 Fan

- The fan does not turn after power is applied:
- 1. Check the appearance of the fan and whether the metal mesh is extruded and deformed.
- 2. Check if the mining pool is successfully connected.

3.1.4 High Temperature

- Machine temperature is too high:
- 1. Check that the machine is not covered with.
- 2. Check if the machine is placed in an environment with air convection.

3.1.5 Hashrate does not up to the target hashrate

- Hashrate does not up to the target hashrate:
- 1. Check whether the machine fan is working properly, if the fan speed is abnormal, it will cause

the machine temperature is too high will trigger high temperature protection.

- 2. Short-term hashrate fluctuations, please observe the 12-hour average hashrate.
- The difference between the Web hashrate and the mining pool hashrate is large:

Check whether the network connection is normal.

3.1.6 Unable to enter the Web operation page

• The browser displays 404 after entering the miner IP:

Reboot the machine and re-enter the Web operation page.

3.1.7 Miner power reduces to around 150W-200W

• The miner's power will drop after the network abnormality, please check the indicator light blinking condition as well as check the network condition.