

# MANUAL

# ICERIVER



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# **1. Product Overview**

# 1.1 Appearance



# 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 machine to the Ethernet first, and then plug in the power cord. Turn on the machine, during the startup process, both of the right and left red and green status lights will be constantly on. After approximately 1 minute, the right status green light will start blinking, indicating that the miner has successfully started.

#### 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.

r IP Start Scan Reboot Config Reset DMCP Change fan speed Deteot IP Auto Monitor	Interval:	5 minutes	
Status Has Detect IP	×	Version	
Status Has Veccul P 232 Online 1150 IP	ker3		2
232 Unline 115 44 192.168.0.232	al gritnrn		2
392,100,0,202			
Caneal			

#### 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.

	登录
Name 登录名 Password 密码	
	Dia Login

# 2.3 Language Switch

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

	刷新时间 2	2023-06-06 19:58.36								中文 マ 登出
首页 矿机设置 IP设置	5分钟算 风扇转 矿机温	速 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		7分44秒
用户设置 固件升级	800	H/s			算力曲线图 左端影响或这是detwiki正编可以影动影响					
	600 	H/s	chuin0. 0 0 mini				5 min			
	ब <b>ा</b> ड <b>ब</b> ाड	新游游社	U distri		— 第798688 99时站在"工名	矿地连接	Diff	Priority	Accepted	Rejected
	1	stratum+tcp://ru.kaspa.her	ominers.com 1208	kasį	pa:qrknmhvhyj49vmgkfur8ap4jda79zfynz0zl 0578q9s5urktrhsw.vital		17592.19 G	1	1	0
	2 版本信息 BO	stratum+tcp://16.163.186.4	19:15837 _miner_1.0 bg_1.0 IP 192.16	4077	pa.ndm9tlsgdmrcha4pg83lwwrka0gjya38teh anavmh7rkvxuzd6w2o.netalinux_confio1300 00.0a35.00.1e53		0.00 G	2	0 恢复出	0 (7) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2

# 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 lime 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 B0011 0_0410 BIN Image_10 ketiver_0603_v2_0mmer.bgz IP 152.168.0.232 IAAC 00.0a 35:00.1e.53 Restore fact	tory 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 lime 2023-06-06 10:18:14		en v logout
Home Mining setting IP Settings	Locate miner Pool configuration Pool addr. WelletWorker	Password(Optional)	
User setting Firmware upgrade	Pool1         stratum+tcp://16.163.186.49-15837         kaspa qpxsj2gm           Pool2         stratum+tcp://16.163.39.109.13241         kaspa qpxsj2gm	w7mk27asrluhq9yd86s75         •           w7mk27asrluhq9yd86s75         •           w7mk27asrluhq9yd86s75         •	
	Ean speed(parcent) 100 %		Save
	Version BOOT1.0_0410 BIN image_1.0 ker/ver_0600_v2_0miner.bgz IP 192.168.0.232 MAC 00.0x35.00.1	e 53	Restore factory 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.

					KS1&2 User Manual				Jal				
	Refresh tim	ne 2023-06-09 15:59:54											en v logo
Mining setting		OCH/s 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	rker			Pool state	Diff	Priority	Accepted	Rejected
Firmware upgrade	1	stratum+tcp://eu1.kas	spa-pool.org:4444			sj2gmv7mk27 8f7m6nxt2c2.	asrluhq6yd86s75jk09 144	9rsru0j95	Connected	17592.19 G	1	232	0
	2	stratum+tcp://eu1.kas	spa-pool.org:4444			sj2gmv7mk27 8f7m6nxt2c2	asrluhq6yd86s75jk09 144	9rsru0j95	Unconnected	0.00 G	2	0	0
	3	stratum+tcp://eu1.kas	spa-pool.org:4444			sj2gmv7mk27 8f7m6nxt2c2.	asrluhq6yd86s75jk09 144	9rsru0j95	Unconnected	0.00 G	3	0	0
	Hash boa	ird											
	Hash b	oard		30 mins h	ashrate				TEMF			TEMP 2	
	1			273.66G					33 °C			49 °C	
	2			410.48G 361.62G					38 °C 33 °C			53 ℃ 50 ℃	
	3			301.62G					33 ℃			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.

0	01	
Kaana-naal	PPLNS	<pre>stratum+tcp://eul.kaspa-pool.org:4444</pre>
Kaspa-pool	SOLO	<pre>stratum+tcp://eul.kaspa-pool.org:4441</pre>
Waalupaalu	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
nerominers	SOLO	stratum+tcp://ru.kaspa.herominers.com:1208
K1pool	PPLNS	stratum+tcp://eu.kaspa.k1pool.com:23112
K1pool	SOLO	<pre>stratum+tcp://eu.kaspasolo.k1pool.com:23114</pre>
Accpool	PPLNS	<pre>stratum+tcp://acc-pool.pw:16061</pre>
F2pool	PPLNS	<pre>stratum+tcp://kas-euro.f2pool.com:1400</pre>
Kryptex	PPLNS	stratum+tcp://kas.kryptex.network:7777/6666

The following mining pools are known to be compatible, and will be continuously updated:

\* 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 fan mode, or manually adjust the speed, click [Save] after modification.

	Refresh time 2023-06-06 10:18:14	en 🗸 logout
Home Mining setting IP Settings	Locate miner	
User setting Firmware upgrade	Pool addr.         WalletWorker         Password(Opt           Pool1         Stratum-tcp://16.163.186.49.15837         kaspa.qpxs;2gmv7mk27asrluhq6yd86875         •           Pool2         Stratum-tcp://18.163.39.106.13241         kaspa.qpxs;2gmv7mk27asrluhq6yd86875         •           Pool3         Stratum-tcp://18.163.39.106.13241         kaspa.qpxs;2gmv7mk27asrluhq6yd86875         •           Hardware configuration         -         -         -           Image: Part Part Part Part Part Part Part Part	ional)
		Sare
	Version BOOT1.0_0410.BIN image_1.0 iceriver_0603_v2_0miner.bgz IP 192.168.0.232 MAC 00.0a.35.00.1e.53	Restore factory settings Restart

\* After power on, the fan will run at low speed, and only after successfully connecting to the mining pool and mining program starts, the fans will start at full speed. The fans default speed is full speed.

\* The machine will stop mining in sleep mode.

\* After manually changing the fan speed, the fan speed in [Hardware Configuration] will still show 100%.

# 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.

	Refresh time	e 2023-06-06 10:29:53							[en 🔹	logout
Home Mining setting IP Settings	Fan spe	nashrate Normal eed Normal emp. Normal	5 mins hashrate 100 GH/s	30 mins hash 15 GH/s	rrate	Pool rejection ra 0 %	te	Miner running 00 d 00 h		3 s
IP Settings User setting Firmware upgrade	12567 10000 7567 5007 2567 2567 007	HUS	0 mms	Mine. Left click to zoom the image. Press a	r hashrate ned hold erit and left click to slid	ie the image	5 mins			
	Pool Pool 1	Pool addr. stratum+tcp://16.163.186.49		— Mi Wallet/Worker kaspa qpxsj2gmv7mk27asrluhq6 6jwp2sskc8/Tm6nxt2c2.ty2 8 0.232 MAC 00.0x35.00.te.53		ool state Diff onnected 549.76 G	Priority 1	Accepted 64 Restore far	Rejected 0	Restart

# 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 1e:53 [P: 102:108:0.232 Subnet mask: 255:255:0	
Firmware upgrade	Host name Protocol	petalinux_config13 Static	
	19	192.168.0.232	
		255 255 255 0 192 168 0 1	
	DNS server	192.168.0.1	
			Save
	Version BOOT1 0_0410 BIN image_1 0 keriver_0603_v2_0miner.bgz IP 192.168.0.232 MAC 0	0.0a 35.00 te:53	Restore 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. After the right green status light starts blinking following the power-up (1 minute after power on), press and hold Rest Button for 20 seconds until the right red status light starts blinking. Waiting until the right red status light stops blinking and wait for the machine to reboot (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 💌 🛛 logout
	Confirm restarting the mining machine?			i i i
Home	5 mins hashrate Normal	5 mins h	Cancel OK rejection rate	Miner running time
Mining setting	Fan speed Normal	103 GH/s 65 GH/s	0 %	00 d 00 h 26 m 49 s
IP Settings	Miner temp. Normal			00 0 00 11 20 11 40 3
User setting				
Firmware upgrade	Miner hashrate			
Filliware upgrade	Left-tick to zoom the image. Press and held city and held			
	100/15			
	75015			
	SOCH/s			
	23CH (s			
	OCH/s 0 mins	S mins	10 mins 15 mi	ns 20 mins
	Minier hadroate			
	Pool			
	Pool Pool addr.	Wallet/Worker	Pool state Diff	Priority Accepted Rejected
	1 stratum+tcp://16.163.186.4	9.15837 kaspa.qrknmlwhyj49vmgkfurða xae0578q9s5urktrhsv.vital	p4jda79zfynz0zhqr8nk 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 170V - 300V).

#### 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.