

Bitdisk All Firmware User Guide

2.0

Initial Configuration - Quick Start

1: Insert the Type-C/DC power supply to power on the Bitdisk host.

2: The Bitdisk host will create a connectable hotspot AP. Observe the small screen; it will display: "Please connect to bitdisk_xxx".

3: Open your phone's Wi-Fi settings and connect to the hotspot named "bitdisk_xxx".

4: After connecting to the hotspot, the Wi-Fi setup window should automatically pop up.

- If it doesn't pop up, restart the Bitdisk host, turn off your phone's Wi-Fi, then turn it back on and reconnect.
- Note 1: Some phones may not automatically pop up the management page. Try a different phone or laptop if this occurs.

- Note 2: If prompted to trust the network, select "Trust this network". If prompted about automatic switching due to no internet, select "Don't switch".

5: Set your Wi-Fi network name (SSID) and password. Wallet configuration can be done later.

- Note: Wi-Fi network names and passwords are case-sensitive.

WiFi SSID: YourWifiSSID
Case sensitive.

WiFi Password: WiFipassword
Case sensitive.

Pool URL: pool
Do not include 'stratum+tcp://' and ports.

Pool Port: 3333

Pool User: YourWalletORName

Pool Password: passwords

You must restart this device after saving for changes to take effect.
The pool settings can be modified later using a browser, so you can just set up wifi ssid and wifi password.

SAVE Reboot

6:Click **save** after making changes, then restart the device.

7:After restarting, you will see **IP: xxx.xxx.xxx.xxx** on the screen. This is the management IP address. Open this IP in a browser within your local network to view and manage the device.

Congratulations! Configuration is complete.

How to Configure Static IP

By default, static IP configuration is not necessary for normal operation. This feature has two main purposes:

1. Assigning a fixed IP for easier management.
2. Enabling By-Pass Route (Gateway) functionality, allowing traffic to reach the mining pool via a proxy.

Configuring static IP carries risks and may cause malfunction if done incorrectly. If misconfiguration prevents operation, refer to the "Common Issues" section below for recovery.

The image below shows how to configure static IP. Key points

1. Ensure all data entered is correct and no fields are left blank. This configuration lacks error checking, meaning mistakes could prevent internet access or block access to the management interface.

2. If misconfigured and you lose access to the management interface:
 - Turn off your router's Wi-Fi, placing the Bitdsk host in a no-network state.
 - Power cycle the Bitdsk host.
 - Reconnect your phone to the Bitdsk AP hotspot.
 - Correct the configuration here.

Settings

Wifi	Pool	Static IP	Weather & Time	Coin Price	System
------	------	-----------	----------------	------------	--------

Enable Static IP

Static IP: 192.168.0.108

Netmask: 255.255.255.0
255.255.255.0

Gateway: 192.168.0.1

DNS MAIN: 192.168.0.1

DNS BACKUP: 8.8.8.8

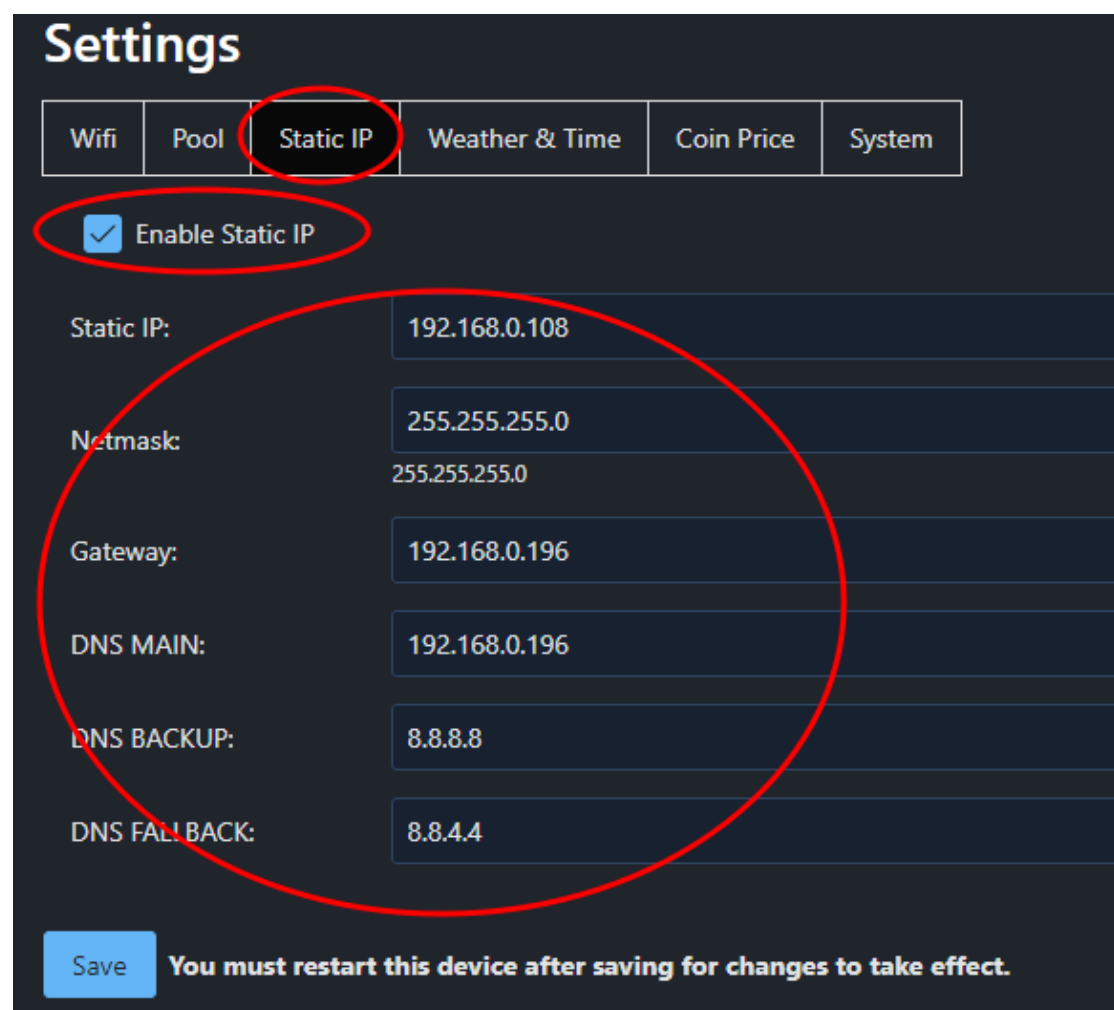
DNS FALLBACK: 8.8.4.4

Save You must restart this device after saving for changes to take effect.

How to Configure By-Pass Route (Gateway)

The image below shows how to configure the By-Pass Route. Key points:

1. **static ip**: Configure the Bitdsk host's IP address. `192.168.0.196` in the example is the gateway IP of the By-Pass Router.
2. The **gateway** points to the By-Pass Router, not the main router. Traffic will be forwarded from the By-Pass Router to the main router. Software like Clash can be installed on the By-Pass Router for traffic proxying.
3. Search Google for guides on setting up a By-Pass Router.



Settings

Wifi Pool **Static IP** Weather & Time Coin Price System

Enable Static IP

Static IP: 192.168.0.108

Netmask: 255.255.255.0
255.255.255.0

Gateway: 192.168.0.196

DNS MAIN: 192.168.0.196

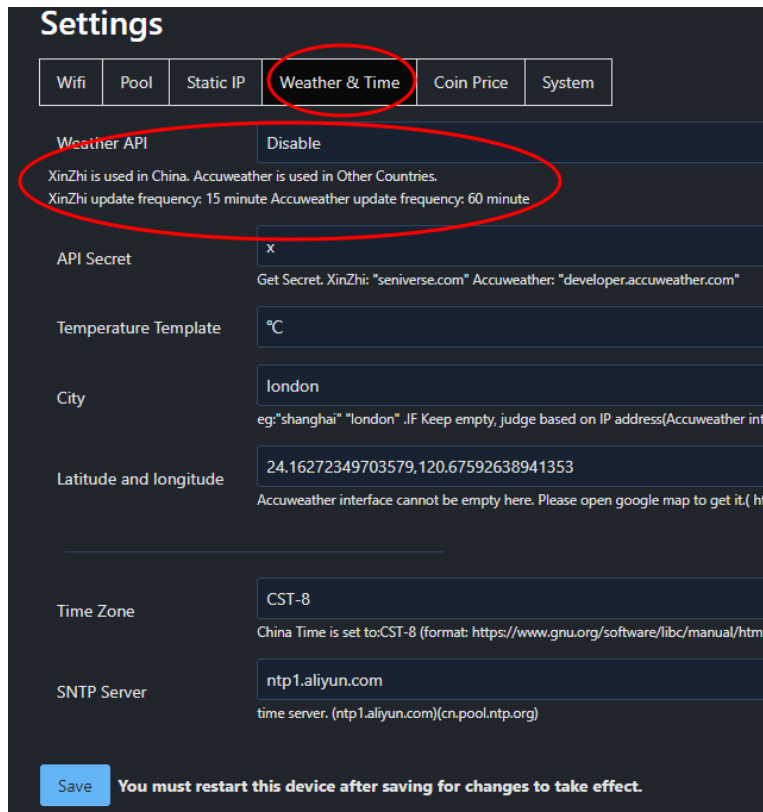
DNS BACKUP: 8.8.8.8

DNS FALL BACK: 8.8.4.4

Save You must restart this device after saving for changes to take effect.

How to Configure Weather (Color Screen Feature)

Two interfaces are provided: `xinzhi` or `Accuweather`. Select one. `xinzhi` is recommended for users in China.



How to Configure XinZhi Interface

Obtain a XinZhi Weather API key at: <https://www.seniverse.com/>

1. Register an account and enter the Console.
2. Click "Add Product" on the left, select "Free Edition - Free Application".

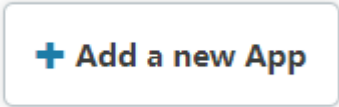
3. Select the applied Free Edition on the left.



4. On the right, click "Show Private Key" and copy it.

How to Configure Accuweather Interface

1. Go to developer.accuweather.com and register an account.
2. Add a new application.



+ Add a new App

Add App

App Name *

AnyText

Internal name: -anytext [Edit](#)

Products*

Core Weather

- Core Weather Limited Trial
- None

MinuteCast

- MinuteCast Limited Trial
- None

Where will the API be used? *

Mobile App

What will you be creating with this API? *

- Partner App
- Internal App
- Productivity App
- Weather App

What programming language is your APP written in? *

Objective C

Is this for Business to Business or Business to Consumer use? *

- Business to Business
- Business to Consumer

Is this Worldwide or Country specific use? *

- Worldwide
- Country

What is the public launch date?

2024-11-21

CREATE APP

3. Copy your `API Key` and paste it into the `API Secret` field in the Bitdsk settings.

These are your apps! Explore!

mycore

Keys Products Details Analytics Edit "mycore" Delete "mycore"

mycore' s Keys

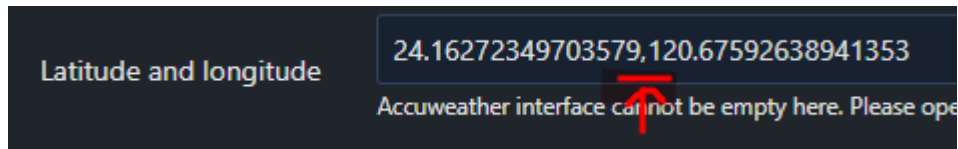
API Key	YWwRG [REDACTED]
Key Issued	Tue, 11/19/2024 - 16:40

Weather API	Accuweather
API Secret	your accuweather API Key Used to update weather forecasts. XinZhi: "seniverse.com" Accuweather: "developer.accuweather.com"
Temperature Template	°C
City	london For: XinZhi API, eg: "shanghai" "London" .IF Keep empty, judge based on IP address.
Latitude and longitude	24.16272349703579,120.67592638941353 For: Accuweather API

4. Open Google Maps: <https://www.google.com/maps/>



5. Right-click on the location name to see its latitude and longitude. Copy this string.
6. Paste the string into the `Latitude and longitude` field in the settings.



Important: The string will have a comma followed by a space (e.g., 40.7128, -74.0060). Manually delete the space after the comma, otherwise weather data requests will fail.

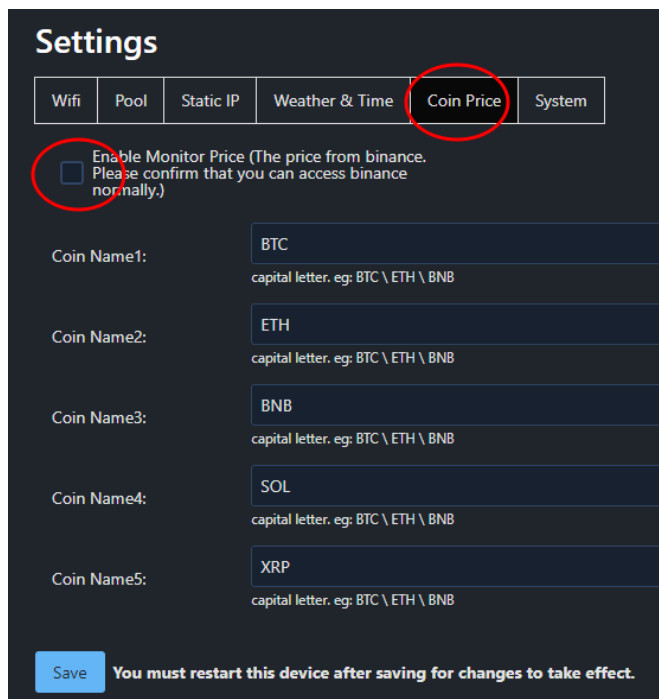
How to Configure Clock (Color Screen Feature)

Open the management interface and navigate to `Weather & Time`.



- **Time zone:** Represents the time zone. Default `cst-8` is Beijing Time.
- **SNTP server:** Network time synchronization server. Can be replaced with other servers.
- Time Zone format reference: https://www.gnu.org/software/libc/manual/html_node/TZ-Variable.html

How to Configure Coin Price Display (Color Screen Feature)



Settings

Wifi Pool Static IP Weather & Time **Coin Price** System

Enable Monitor Price (The price from binance. Please confirm that you can access binance normally.)

Coin Name1:
capital letter. eg: BTC \ ETH \ BNB

Coin Name2:
capital letter. eg: BTC \ ETH \ BNB

Coin Name3:
capital letter. eg: BTC \ ETH \ BNB

Coin Name4:
capital letter. eg: BTC \ ETH \ BNB

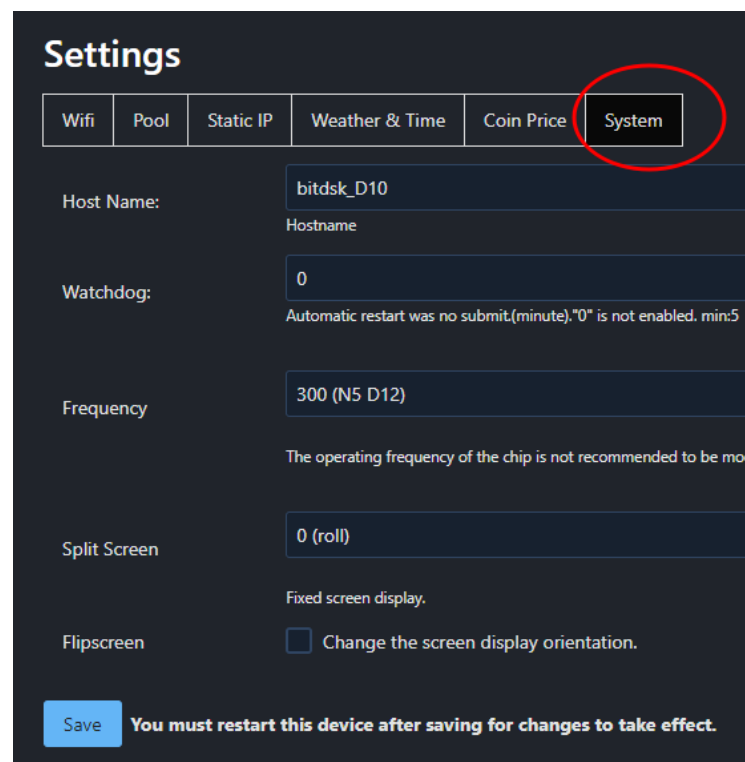
Coin Name5:
capital letter. eg: BTC \ ETH \ BNB

Save You must restart this device after saving for changes to take effect.

Notes:

1. Coin prices are fetched in real-time from Binance. If you cannot access Binance, do not enable this feature.
2. Coin symbols (e.g., BTC, ETH) must be in UPPERCASE.
3. The coin must be listed on Binance, otherwise data retrieval will fail.

System Configuration



Settings

Wifi Pool Static IP Weather & Time Coin Price **System**

Host Name: bitdsk_D10
Hostname

Watchdog: 0
Automatic restart was no submit,(minute),"0" is not enabled. min:5

Frequency: 300 (N5 D12)
The operating frequency of the chip is not recommended to be mod

Split Screen: 0 (roll)
Fixed screen display.

Flipscreen Change the screen display orientation.

Save You must restart this device after saving for changes to take effect.

- **Host Name:** Set the device's hostname.
- **Watchdog:** Automatically reboots the host if no shares are submitted. Unit: Minutes. Initial difficulty varies by pool. Setting this too low may cause frequent reboots; recommended ≥ 15 minutes. Adjust based on pool difficulty. Keep at 0 if unsure.

- **Frequency:** ASIC chip operating frequency. Do not modify if inexperienced. **Split Screen** (Color Screen Feature): Locks the display to a specific screen.
- **Flipscreen:** Rotates the screen display 180 degrees.

Common Issues

1. How to access the web management interface after initial setup?

The screen flips every 15 seconds by default. Look for **IP: xxx.xxx.xxx.xxx** on the screen. This is the management IP. Open this IP in a browser within your local network to access the management interface.

2. The setup window is blank/black or doesn't pop up after connecting to the hotspot. What should I do?

Follow these steps:

1. Place the Bitdsk host sideways on a table with your phone nearby.
2. Power off the Bitdsk host.
3. Turn off your phone's Wi-Fi.
4. Power on the Bitdsk host, then turn on your phone's Wi-Fi.

5. Attempt setup again.

Repeat these steps if necessary. If it still fails, try with a different phone.

3. The Wi-Fi network name is correct, but I entered the password wrong.

After reboot, I don't see the hotspot and can't configure it. What to do?

Method 1:

1. Turn off your router, making its Wi-Fi unavailable.
2. Power cycle the Bitdisk host.
3. Turn off your phone's Wi-Fi.
4. Power on the Bitdisk host, then turn on your phone's Wi-Fi.
5. Attempt setup again.

Method 2:

1. Move the Bitdisk host to a location completely out of range of your router's Wi-Fi signal.
2. Perform steps 2-5 from Method 1.

4. I configured the static IP incorrectly. After reboot, I don't see the hotspot and the device isn't working. I can't access the settings. What to do?

- The solution is the same as for Issue 3 above.

More Documentation: <https://www.bitdisk.org/docs>