HelloCubic User Manual V3.2.2EN

1. Basic Information

Product Size: 38mm x 32mm x 48mm

Optical Prism: K9L, 25.4mm x 25.4mm x 25.4mm

Screen :1.3 inch 240x240px tft IPS display

CPU: ESP32-PICO-D4

Power supply: 5V DC with 1A and up. Voltage should not over 5V which may cause damage.

Motion Sensor: MPU6050, Six-Axis (Gyro + Accelerometer) MEMS

2. Motion Control

Tips: When power on, keep the device in steady situation, the mostion sensor will auto start calibrate its status, the state is displayed on the screen.

Control:

- Turn left and hold for 1-2 second, to switch left apps or left content in apps.
- Turn right and hold for 1-2 second, to switch right apps or right content in apps.
- Turn backward and hold for 1-2 second, to exit from app.
- Turn forward and hold for 1-2 second, to enter app.

Video here for reference.

3. Settings

Showing the current firmware version.

WiFi Mode, AP or STA.

AP: standalone hotspot with "HelloCubic" SSID, empty password.

STA: "HelloCubic" will be disappear after the cube connected to a WiFi hotspot.

The "SSID" and "IP" indicates SSID and IP address under different WiFi mode.

4. Weather Station

Once power on, the device will enter into STA mode, in this mode it will auto connect to router's WiFi, which will fail the first time you start it, then it will enter into AP mode, a WIFI named "HelloCubic" with empty password will be on.

Open your phone's WiFi and connect to it, in most cases, there will come up a setting up page automatically, if not, open your phone's web broswer and visit http://192.168.4.1/ to change settings.

Step 1: Input your city location.

"City Location" is a must, and we also suggest you to register your own api key, in case public api key may invalid or limited.

City Location in the format "city_name,city_country", no space between. Take "Seoul,KR" for example.

But, do not change the API key if you haven't got one or don't know what the API key means.

Step 2: Connect to a WiFi hotspot with internet service.

In order to access the internet to get weather info, switch to "System" on the web page and input the wifi info(ssid and password) you want it to connected and then click button "save",

this time you need to reboot the device manually.

5. Web Server

By default, the webserver is always on, in case you may want to make some changes at any time.

In AP mode, connect to "HelloCubic" and visit http://192.168.4.1

In STA mode, connect to the same WiFi hotspot which the cube is connected, and visit the IP address shown at APP "Settings" like below:

http://192.168.123.78/

IP address in STA mode

Remember different cube have different IP address and may be updated to a new one by your router. The IP is a local address which can not be seeing from internet, so it's safe.

6. Picture display

In this app with no internet needed, but a TF card with FAT32 system is required. Make a new directory "image" in the root dir, and put some jpg or gif images here.

Remember the screen is 240x240px, so jpg or gif file should not bigger than that.

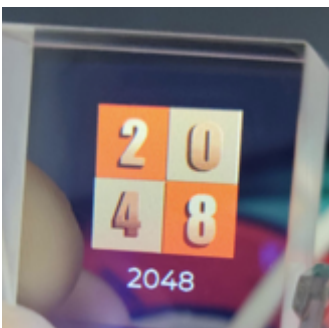https://ezgif.com is the best website to optimise gif files.

If TF card is not mounted properly, you can't enter the picture display app.
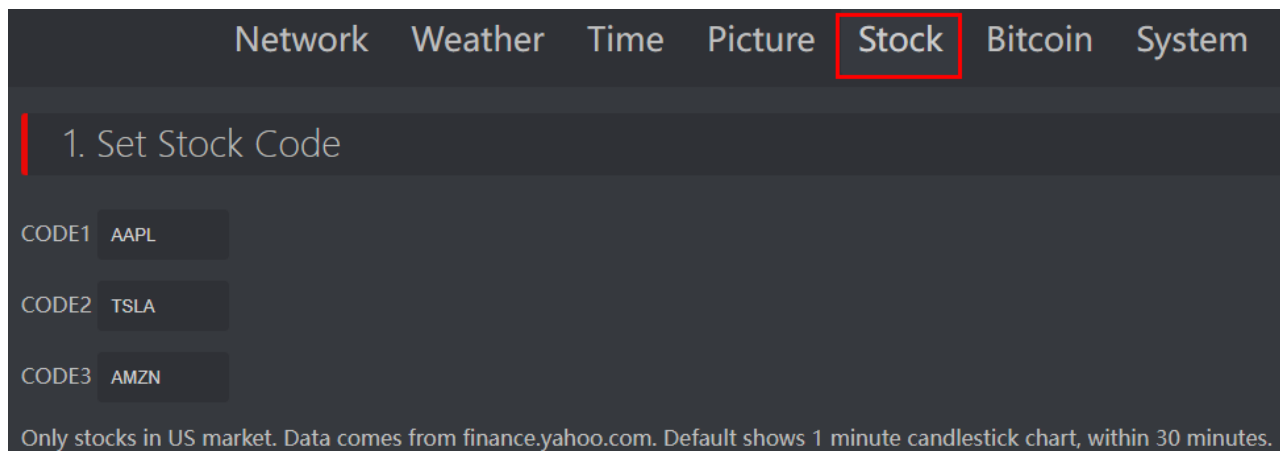
7. Idea

Some interesting animations. Enter the app and turn left or right to switch different animations.
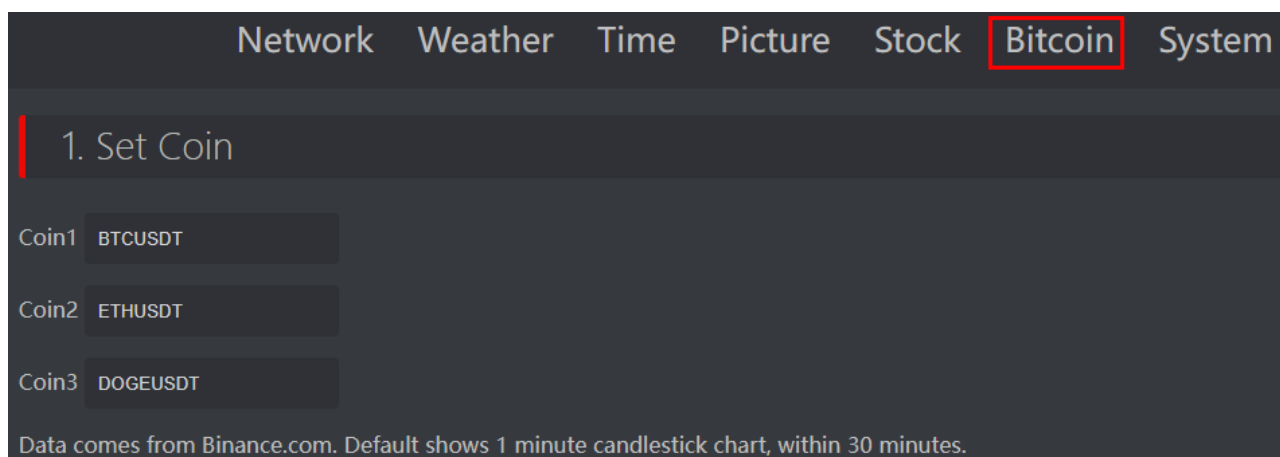
8. 2048 Game

Enter the app, turn left, right, backword, forward to play the game.

9. Stock K-line display

10. Cryptocurrency

Your advices are highly welcomed, feel free to contact ifengchao1314@gmail.com.

Good luck and happy everyday!!!

Trouble shooting:

1) The screen flickering?

A: Try change another usb cable or power adapter, the related to unstable power supply.

2) Can't connect to my router?

A: Make sure it's 2.4G hotspot, double check the SSID and the password is correct. If it's a WIFI6 2.4G network, especially it's ASUS WIFI6 routers, there maybe compatible issues. Method 1, close the 802.11ax options which will close WIFI6 features. Method 2, create a guest 2.4G hotspot without 802.11ax options, and connect the gadget to this AP. Method 3, contact online help from us.

3) Where and how to update firmware?

A: There will be update info in the item description when there's a updated version, please follow our store to get notification. New firmware and instructions could be sent via email.

4) Next?

Recently updated on June 10, 2023