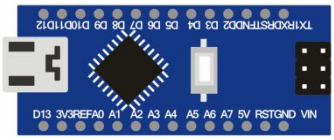
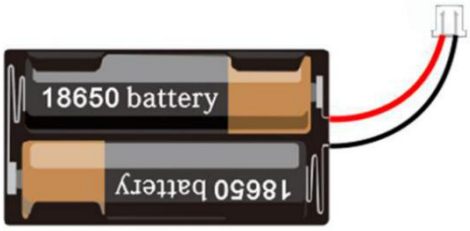
Full Color RGB Led Light Module

You need to prepare：

- A Nano board
- A Nano shield
- A 2LED full color RGB light module
- 4PIN -70mm cable
- A usb cable
- A battery case with two 18650 batteries





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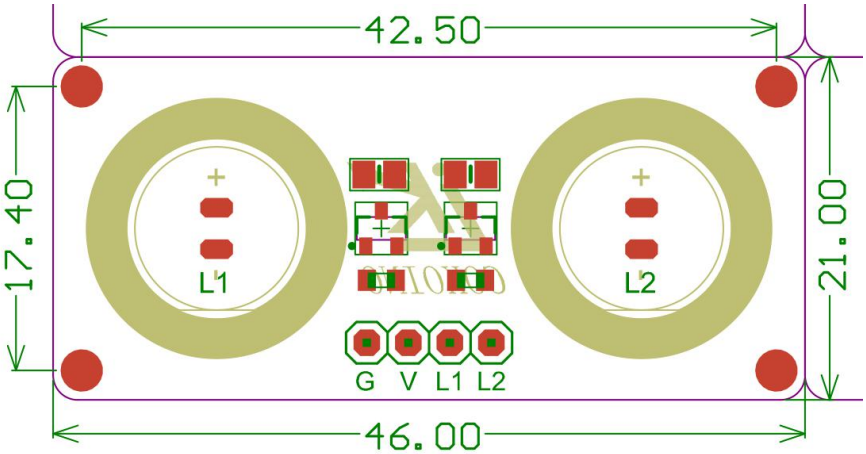
1、Overview

The LK COKOINO 2LED full-color self-flashing RGB light module is inspired by the owl's eyes, and the owl's eyes can automatically emit cool different colors in the dark. This RGB module is used in a lot of ways, such as simulating the eyes of an arduino robot, as well as simulating stage lighting and making a variety of interesting arduino projects. It has a white connector with XH2.54-4P, which is very convenient to connect with other hardware with XH2.54-4P interface, and it is foolproof.

2、Specifications

(1) Working voltage: recommended working voltage 3-5V
(2) Single LED specifications:
Brightness: 18000-20000MCD brightness
Turn-on voltage: 2.9-3.1V
Power: 0.06W
Current: 20MA
Wavelength: 520-525
(3) Input signal: digital signal
(4) Interface: XH2.54-4P

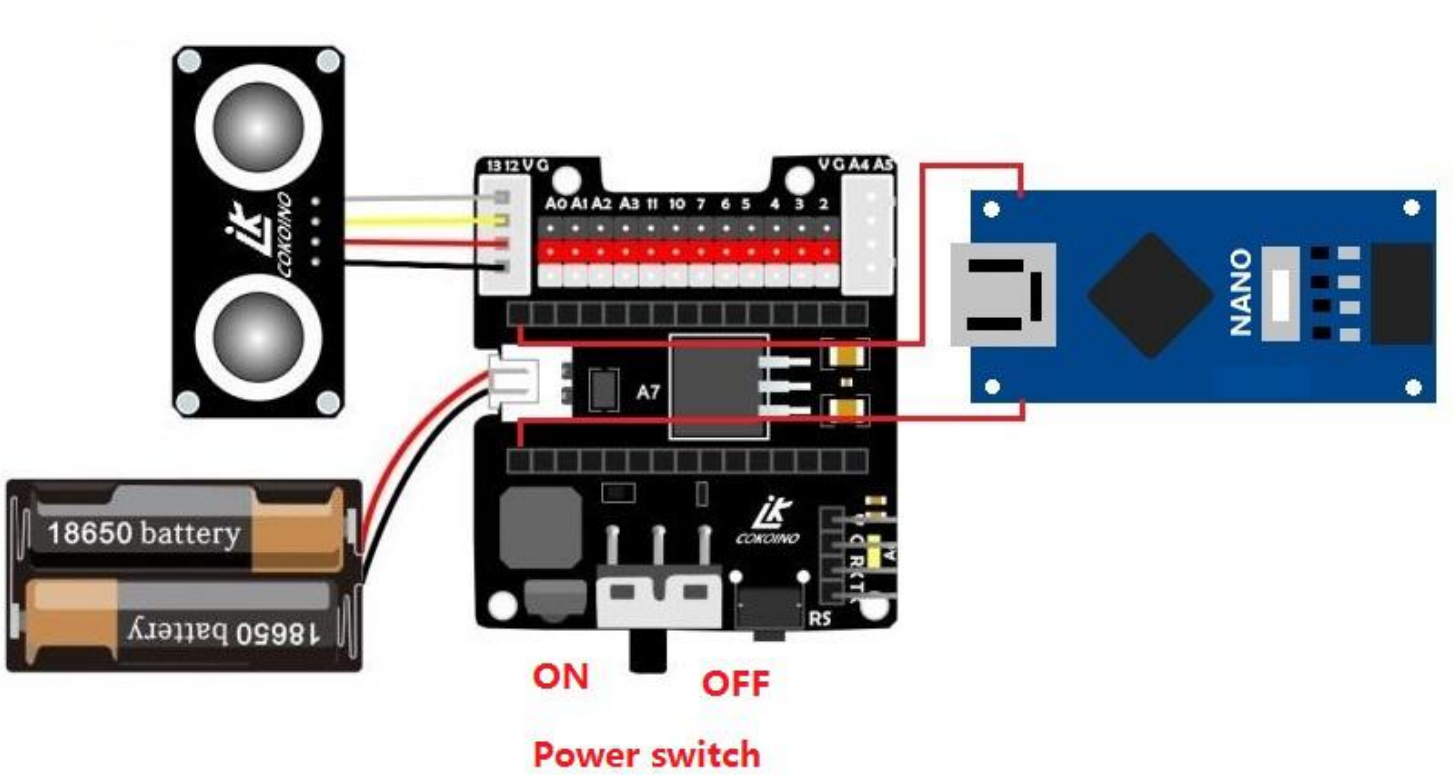
3、Size（unit mm）



4、Interface definition

GND: Connect the negative pole of the power supply
VCC: Connect the positive pole of the power supply
L1: Input high level control L1 LED will be lit, input low level LED will be off
L2: Input high level control L2 LED will be lit, input low level LED will be off

5、Let LK COKOINO 2LED full color RGB light module flash

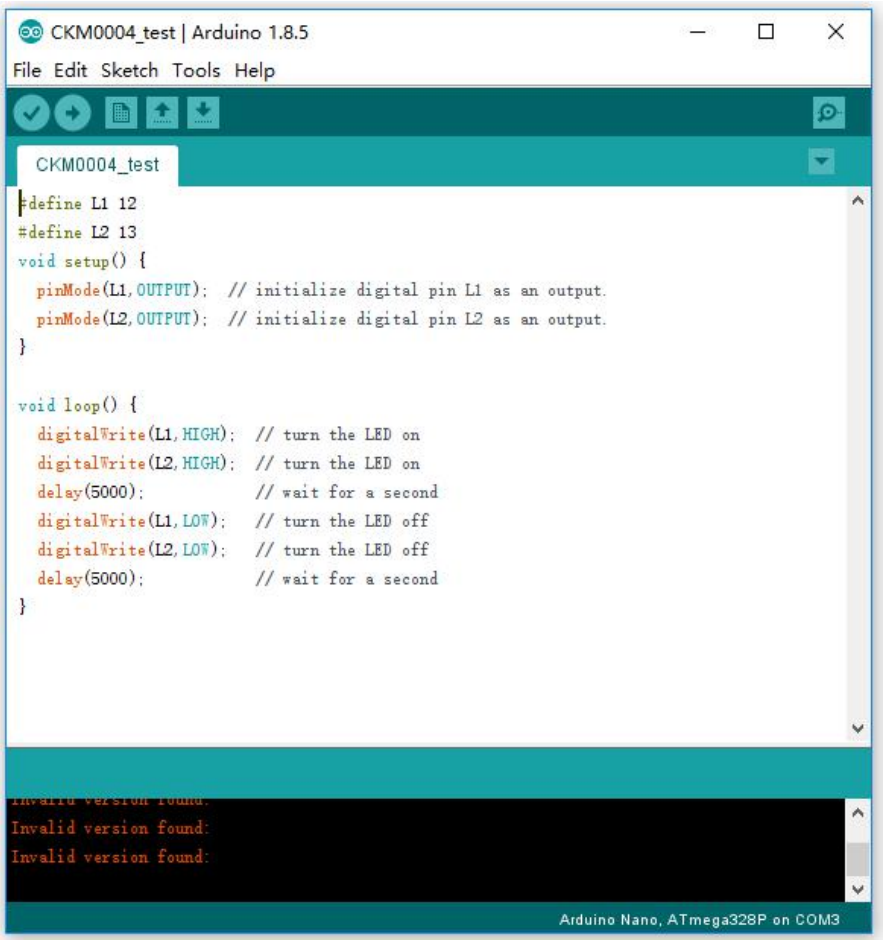


5.1、Arduino Test Code

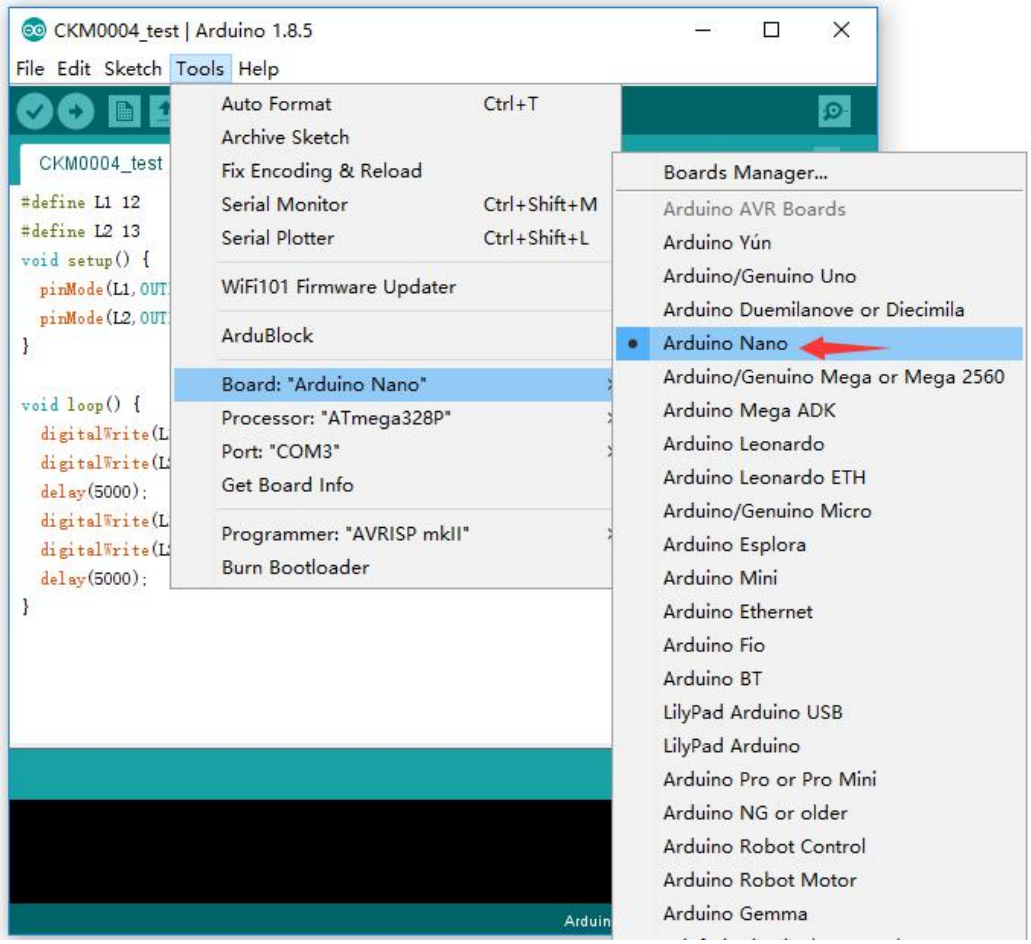
```
#define L1 12
#define L2 13
void setup() {
   pinMode(L1,OUTPUT);    // initialize digital pin L1 as an output.
   pinMode(L2,OUTPUT);    // initialize digital pin L2 as an output.
}
void loop() {
   digitalWrite(L1,HIGH);    // turn the LED on
   digitalWrite(L2,HIGH);    // turn the LED on
   delay(5000);                    // wait for a second
   digitalWrite(L1,LOW);     // turn the LED off
   digitalWrite(L2,LOW);     // turn the LED off
   delay(5000);                    // wait for a second
}
```

5.2、Upload code

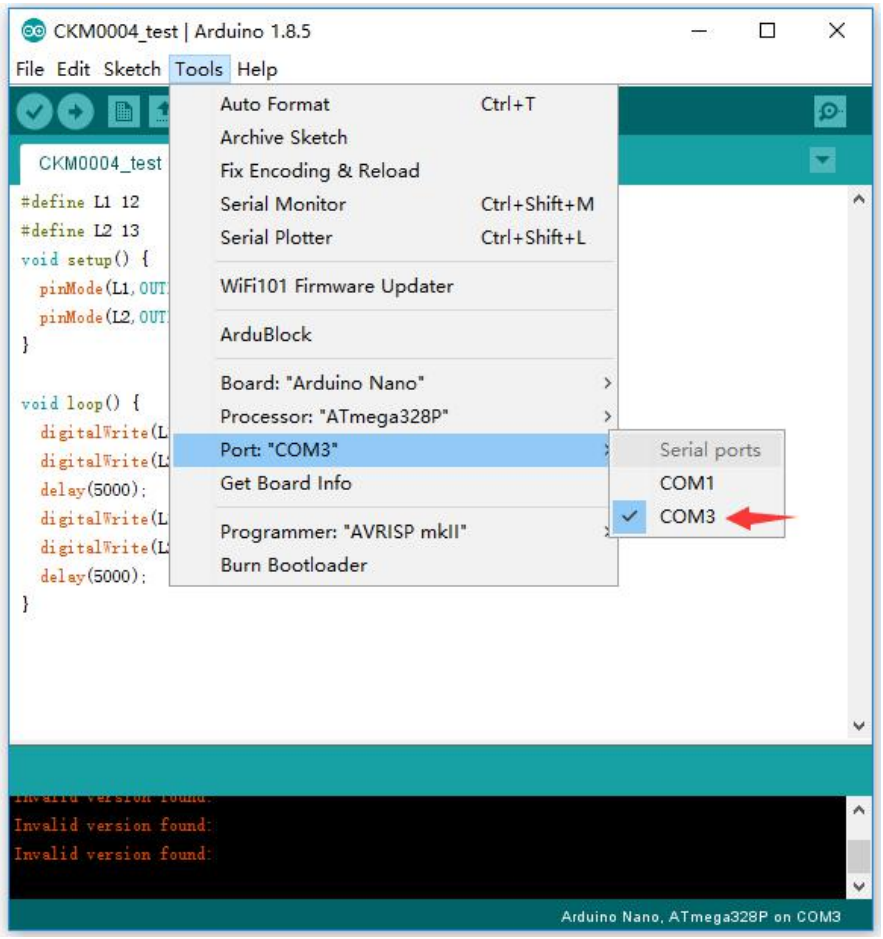
5.21、 copy the above code into the arduino IDE



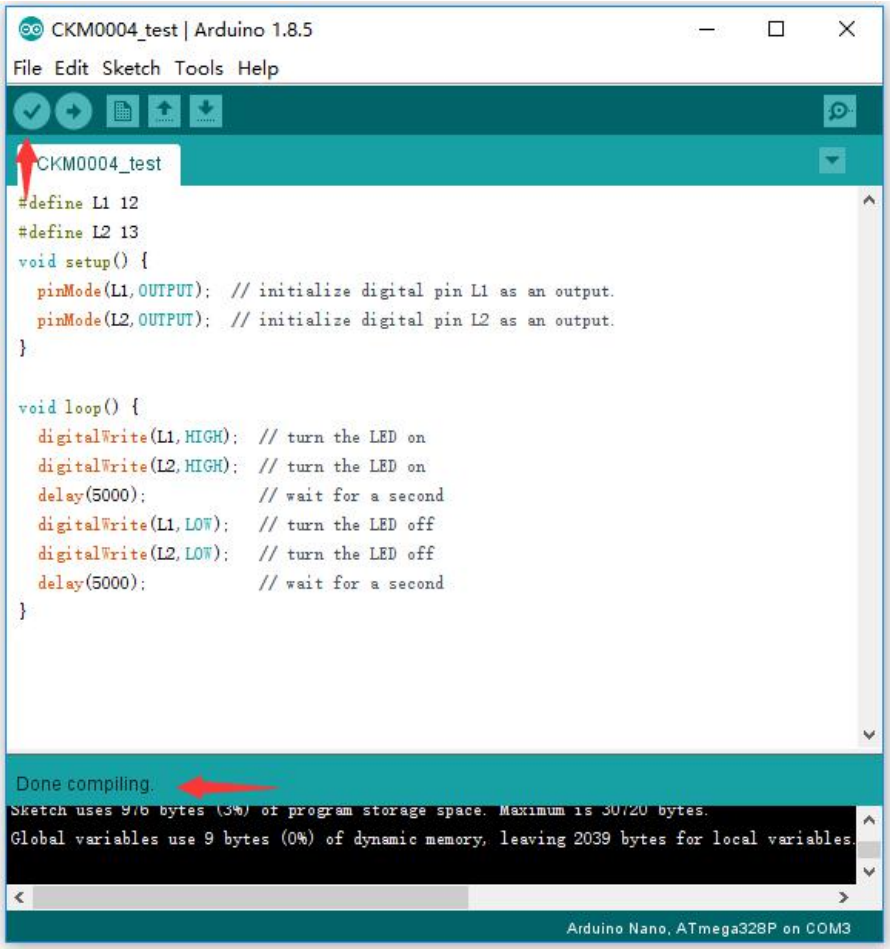
5.22、select the board type



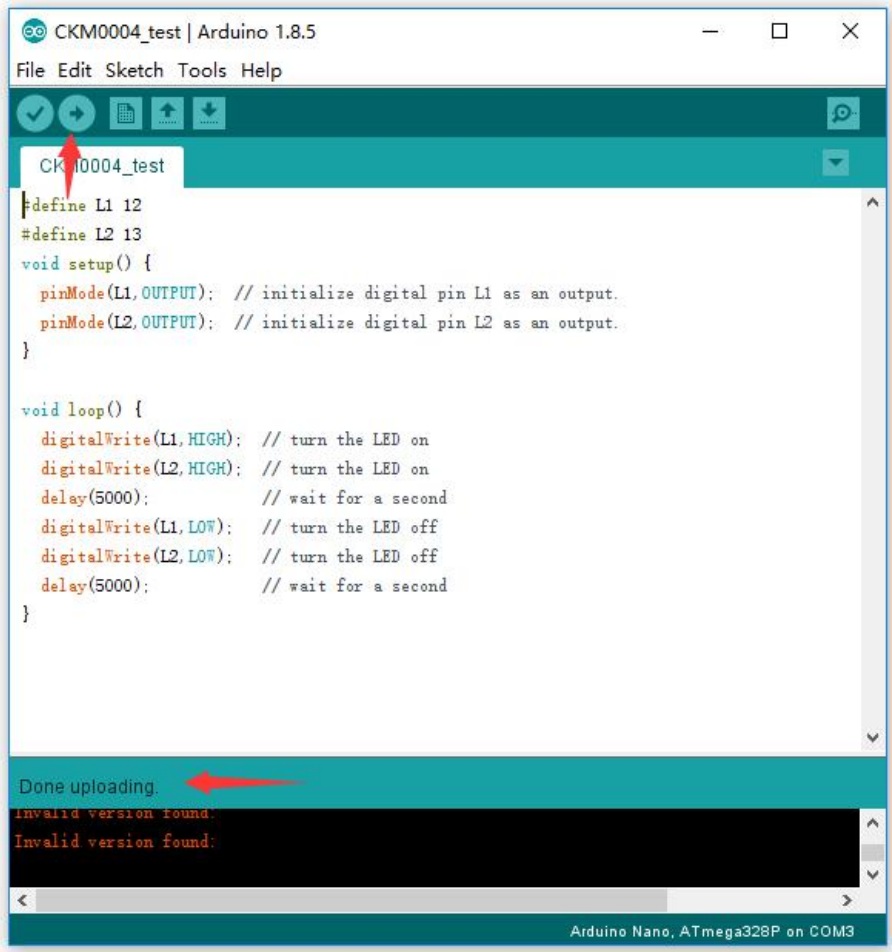
5.23、Select USB port



5.24、inspection code



5.25、 upload



5.26、Result

After uploading the code, then turn on the power switch on the expansion board, the module will automatically flash for 5 seconds and turn off for 5 seconds

6、Schematic