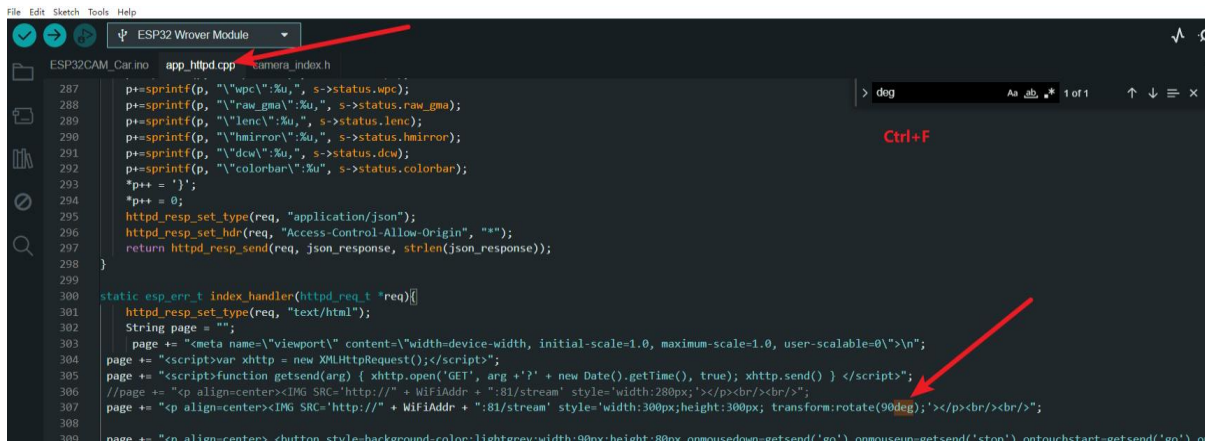


# ZYC0024 common problems and solutions

## 1. What if the camera is transposed?

1) Click the.cpp file in the code file, search for deg, modify the deg parameter in the code, and change it to -90/0/90/180 corresponding to different camera Angle values. Save when you're done, and re-burn the code.



```
File Edit Sketch Tools Help
ESP32CAM_Carino app_httpd.cpp camera_index.h
287 p+=sprintf(p, "\wpc":%u,", s->status.wpc);
288 p+=sprintf(p, "\raw_gma":%u,", s->status.raw_gma);
289 p+=sprintf(p, "\lenc":%u,", s->status.lenc);
290 p+=sprintf(p, "\hmirror":%u,", s->status.hmirror);
291 p+=sprintf(p, "\dcw":%u,", s->status.dcw);
292 p+=sprintf(p, "\colorbar":%u,", s->status.colorbar);
293 *p++ = '\0';
294 *p++ = 0;
295 httpd_resp_set_type(req, "application/json");
296 httpd_resp_set_hdr(req, "Access-Control-Allow-Origin", "");
297 return httpd_resp_send(req, json_response, strlen(json_response));
298 }
299
300 static esp_err_t index_handler(httpd_req_t *req){
301 httpd_resp_set_type(req, "text/html");
302 String page = "";
303 page += "<meta name='viewport' content='width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=0'>\n";
304 page += "<script>var xhttp = new XMLHttpRequest();</script>";
305 page += "<script>function getsend(arg) { xhttp.open('GET', arg + '?' + new Date().getTime(), true); xhttp.send() } </script>";
306 //page += "<p align=center><IMG SRC='http://" + WiFiAddr + ":81/stream' style='width:280px;'></p><br/><br/>";
307 page += "<p align=center><IMG SRC='http://" + WiFiAddr + ":81/stream' style='width:300px;height:300px; transform:rotate(90deg);'></p><br/><br/>";
308
309 page += "<p align=center><button style='background-color:lightgrey;width:80px;height:30px;float:right;'>stop</button>";
```

## 2. Operation delay is high and camera screen freezes

2) The WiFi signal quality is not good. It is recommended to change to a better WiFi environment or use the mobile hotspot directly.

## 3. The camera screen orientation is wrong

1) " ESP32CAM\_Fixing\_Angle " in the burning tutorial file can be solved.

## 4. Unable to obtain IP address, error 0X20004 or 0x105 reported

1) In this case, the camera initialization failed. It may be due to poor contact of the camera. The camera can be reinstalled.

## 5. After the code is uploaded successfully, I cannot connect to WiFi and cannot obtain the IP address.

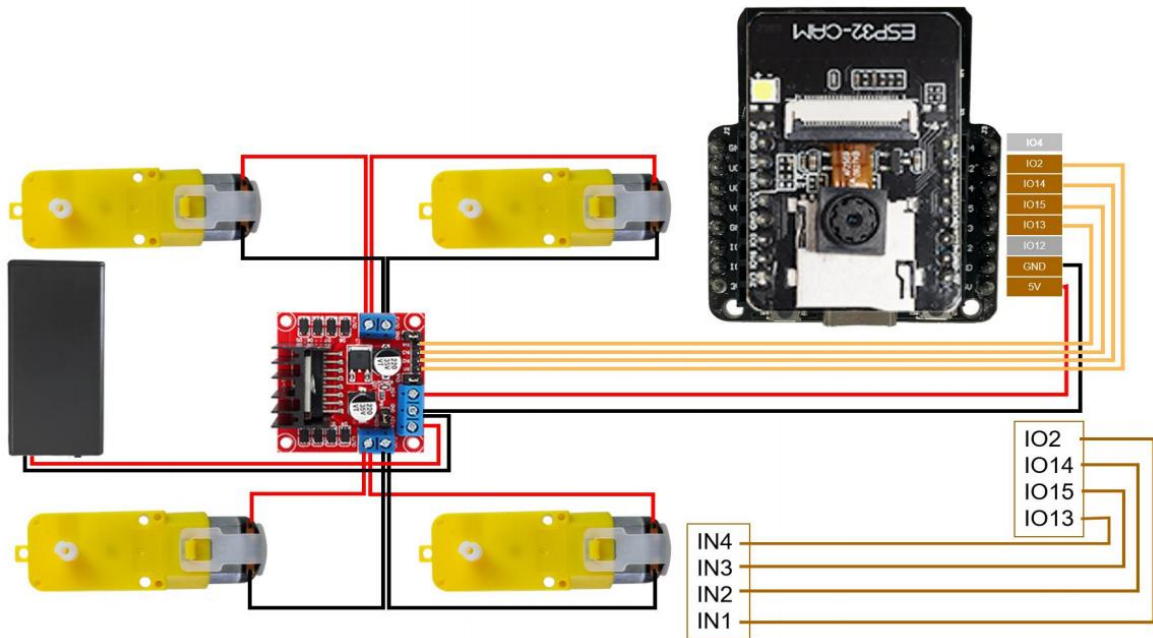
- 1) First check the code in "ESP32CAM\_Car" and modify the WiFi name and password inside. It should be noted that ESP32 only supports WiFi in the 2.4G frequency band.

```
20 #define CAMERA_MODEL_AI_THINKER
21
22 const char *ssid = "zhiyi1"; // Enter SSID
23 const char *password = "wuqian198910"; // Enter I
24
```

- 2) After successfully burning the code, change the baud rate of the serial monitor in the Arduino IDE to 115200, press the reset button on the ESP32, wait for the serial monitor to prompt for WiFi connection, and then display the IP address. Then connect your phone or computer to the same WiFi and enter the IP address in the address bar of the browser to access it. If you cannot access it, you can change your browser. Some browsers will block this access operation.

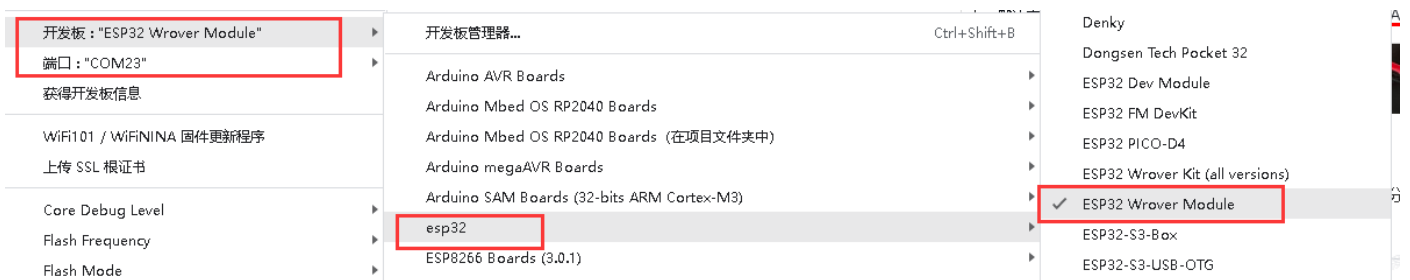
## 6. Wheels not functioning properly

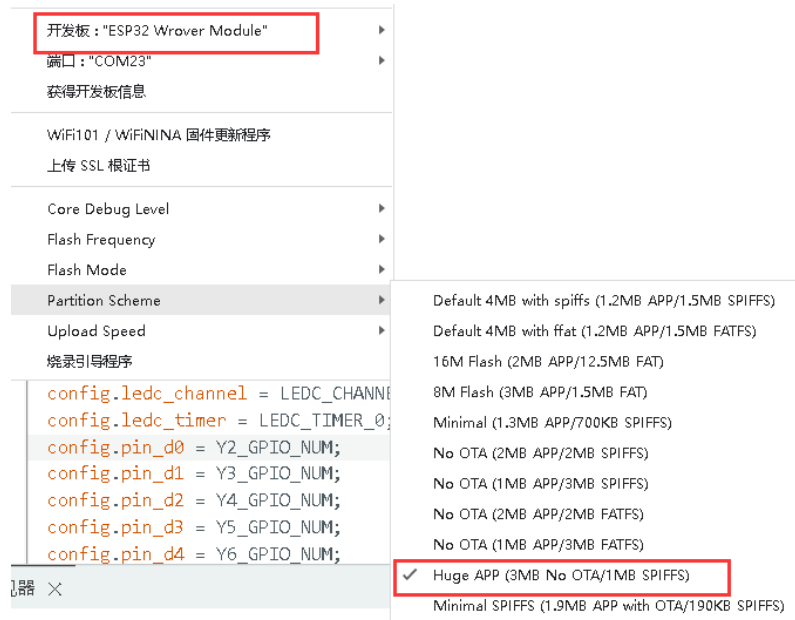
- 1) You can check the wiring between the ESP32 and the L298N module. If you don't understand, you can check whether the jumper cap on the L298N has a bad contact problem.



## 7. Unable to compile and upload normally

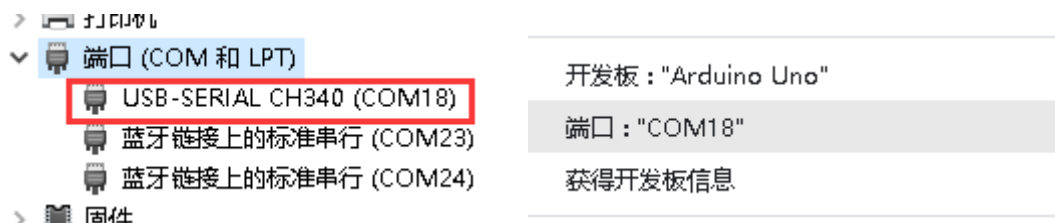
1) Check whether the development board is selected correctly. you need to select the ESP32 Wrover Module. Please select and set according to the picture.





**8. An error occurs when compiling and uploading the code, prompting avrdude: ser\_open(): can't open device "\\.\COM11";, unable to open the port.**

1) Open the device manager and check whether the CH340 port is detected. Just go to Arduino IDE and change it to the corresponding port.



2) If the port is not detected in the device manager, you need to install the CH340 series driver.

The following is the download link:

<https://www.dropbox.com/scl/fo/ajld79ylcpbkefj5s9ccv/h?rlkey=yk2das5lpn8bl60iu8o1b6rh6&d1=0>

3) After opening the Windows version, just click Install.



4) For the MAC version, you need to enter the security and privacy settings, click the button in the lower left corner to allow third-party APP installation.



## 9. ESP32 not found in development board options

1) If the ESP32 development board library is not installed correctly, you can install the ESP32 2.0.4 library file with one click. The following is the download link.

[https://www.dropbox.com/scl/fi/3j2sozoiuyg0cgmn1i75i/esp32\\_package\\_2.0.12\\_arduino.exe?rlkey=iml3j6zksbcz02iyvhuzxx7a9&dl=0](https://www.dropbox.com/scl/fi/3j2sozoiuyg0cgmn1i75i/esp32_package_2.0.12_arduino.exe?rlkey=iml3j6zksbcz02iyvhuzxx7a9&dl=0)

10. The camera has a picture, but the buttons don't do anything except turn the lights on and off.

1) Check whether the power cord between the battery box and the L298N is connected incorrectly. If the power cord is connected incorrectly, it may cause burning of electronic components or abnormal power supply of the L298N.

