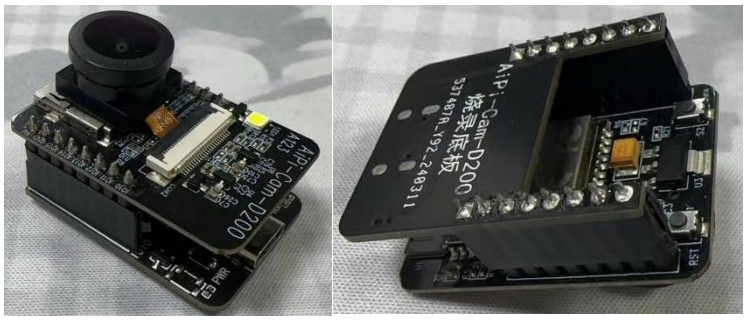
AiPi-CAM-D200 Firmware User Guide

1. Firmware burning

(1) Serial port wiring

TTL Tool	AiPi-CAM-D200
3.3V	VCC
TXD	RX
RXD	TX
GND	GND

(2)AiPi-Cam-Floor installation diagram



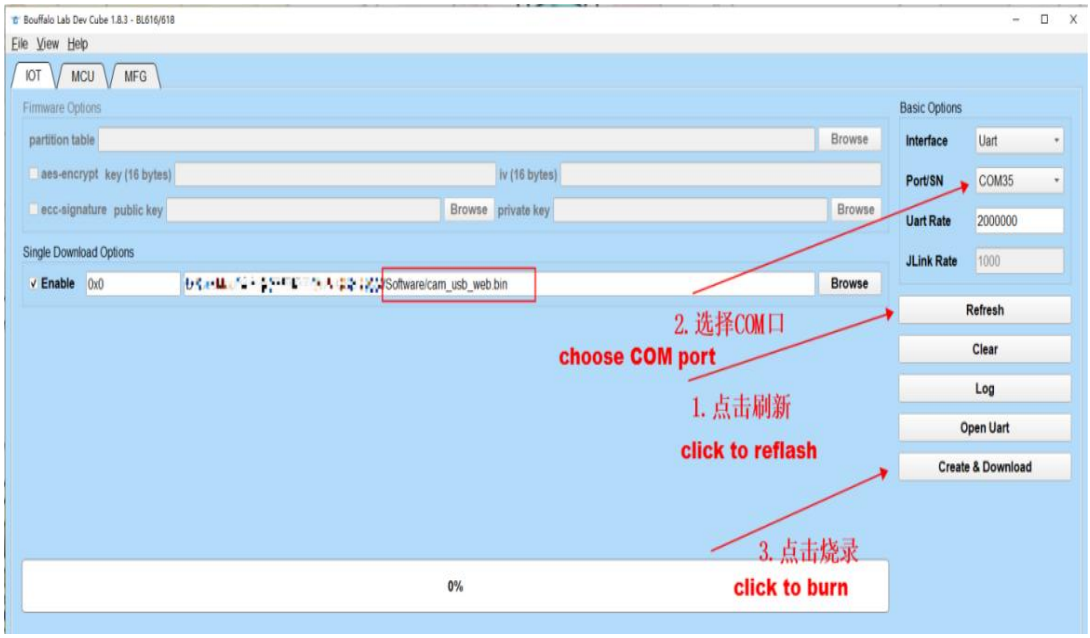
After the installation is complete, burning and debugging only requires a Type-C to connect to the USB.

(3)Burning

Tool for burning ： click to download the tool for burning

Firmware address： Click to download the firmware

After the burning tool starts burning, first press and hold the "download button (S1)" and then press and release the "reset button (S2)" to enter the burning mode. The operation steps of the burning tool are as follows:



2. Usage steps

(1) Connect with DVP Camera

Specific steps

(1) Use AT commands to connect to WiFi and obtain IP address

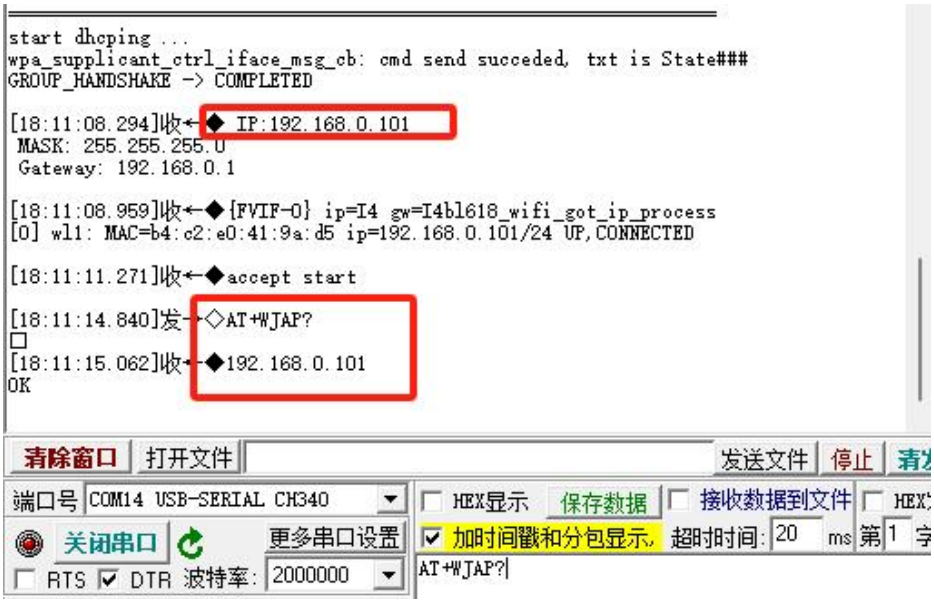
① Serial port connection (the baseboard user can directly connect to Type-C)

TTL tool	AiPi-CAM-D200
3.3V	VCC
TXD	RX
RXD	TX
GND	GND

② Select the corresponding port, baud rate 2000000

③ Enter AT+WJAP=SSID,PASSWORD, connect to the router, and wait for the IP to be obtained.

④ ou can manually enter AT+WJAP? to view the IP address.



(2) View Camera Data

① Open the browser and enter the IP address you obtained earlier.

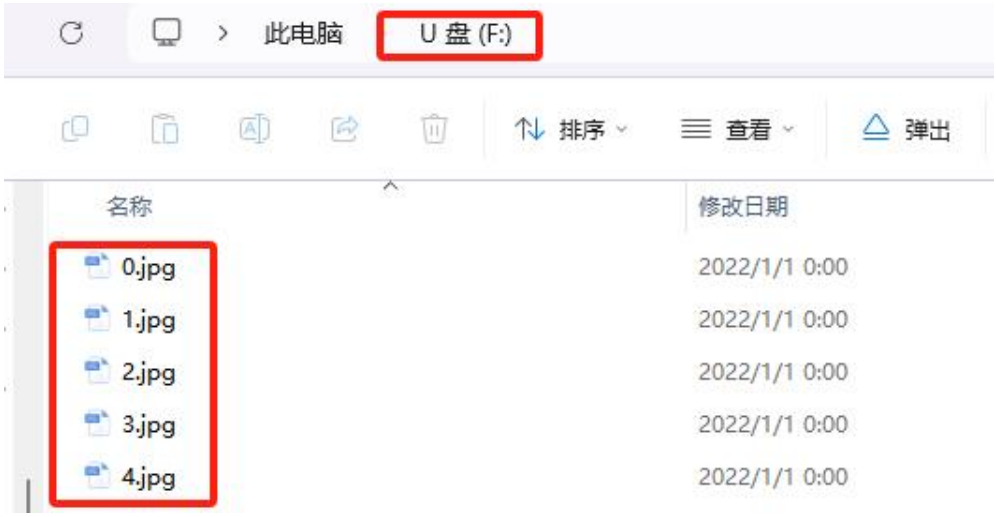
② Click Start Stream to see if there is a camera image, as shown below:

(3)Flash and photo function

① When the module is inserted into the SD card, it supports the photo taking function. Press the S2 button to store the taken pictures in the SD card. The pictures are named with numbers and counted from 0.

```
[10:13:06.606]收←◆Write Succeed! photo cnt:0
Write data size:97096 Byte, written size:4936 B

[10:13:11.567]收←◆Write Succeed! photo cnt:1
Write data size:143032 Byte, written size:9912 B

[10:13:12.992]收←◆Write Succeed! photo cnt:2
Write data size:138961 Byte, written size:5841 B

[10:13:14.593]收←◆Write Succeed! photo cnt:3
Write data size:101357 Byte, written size:9197 B

[10:13:15.443]收←◆Write Succeed! photo cnt:4
Write data size:126688 Byte, written size:3808 B
```

Remove the SD card from the module and use a card reader to read the contents of the SD card. You can see that the images have been stored in the SD card.



The effect pictures taken:

② Press and hold the S2 button for 2 seconds or input AT+LED=1 to enable the flash function. Press and hold the S2 button for 2 seconds again or input AT+LED=0 to disable the flash function.

```
[18:19:37.162]收←◆text write failed 1 -1
[18:19:45.439]收←◆led_ctrl:1

[18:20:20.489]发→◇AT+LED=0
□
[18:20:20.728]收←◆OK
```