

K210 identification information and adjustment methods

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Information display of k210 identification icon

k210 How to use another model

How to quickly differentiate between K210GC2145 camera (new version) and ov2640 camera (old version)

Information display of k210 identification icon

- When 1 is recognized, the word "one" will be framed and marked.
- When 2 is recognized, the word "two" will be framed and marked.
- When a right turn is recognized, the word "right" will be framed and marked
- When a left turn is recognized, the word "left" will be framed and marked
- When the speed limit 30 is recognized, the word "limitSpeed" will be framed and marked.
- When the speed limit 30 is released, the word "freeSpeed" will be framed and marked.
- When the horn is recognized, the word "horn" will be framed and marked
- When a red light is recognized, the word "red" will be framed and marked
- When the green light is recognized, the word "green" will be framed and marked






When the same road sign recognizes other words, it means that misrecognition has occurred. To ensure that the K210's vision is correct, the position of the road sign must be adjusted.

- If you are using **tinybit_AI.kmodel** the visual position of k210 can be determined by identifying the **No. 2 mark**
- If you are using **tinybit_AI_02.kmodel** the visual position of k210 can be determined by identifying the **left turn sign**

k210 How to use another model

The source code uses the **tinybit_AI_04.kmodel** model by default, the GC2145 camera (new version) uses model 04, and the ov2640 camera (old version) uses other models. When using the ov2640 camera (old version), if the effect is still poor after the above adjustments, you can try to replace it with another model for testing.

1. Confirm the SD card path of tinybit_AI_02.kmodel or tinybit_AI_03.kmodel

U 盘 (E:)			
名称	修改日期	类型	大小
 tinybit_AI_04.kmodel	2023/12/29 14:30	KMODEL 文件	579 KB
 tinybit_AI_03.kmodel	2023/10/24 22:42	KMODEL 文件	579 KB
 tinybit_AI_02.kmodel	2023/9/4 19:34	KMODEL 文件	579 KB
 tinybit_AI.kmodel	2023/7/24 21:02	KMODEL 文件	589 KB
 test.txt	2018/1/1 0:00	文本文档	1 KB

2. Modify the 20_tinybit_AI_sport.py file (can be found in the information) **Line 7**, change 1 to 2 or 3, as shown in the figure

```
1 import sensor, image, time, lcd, gc, cmath
2 from maix import KPU
3
4 from modules import ybserial
5 import time
6
7 kmdel = 1 #1:使用tinybit_AI.kmodel 2:tinybit_AI_02.kmodel
8
9 serial = ybserial()
10
```



When using the tinybit_AI.kmodel model, change it to 1

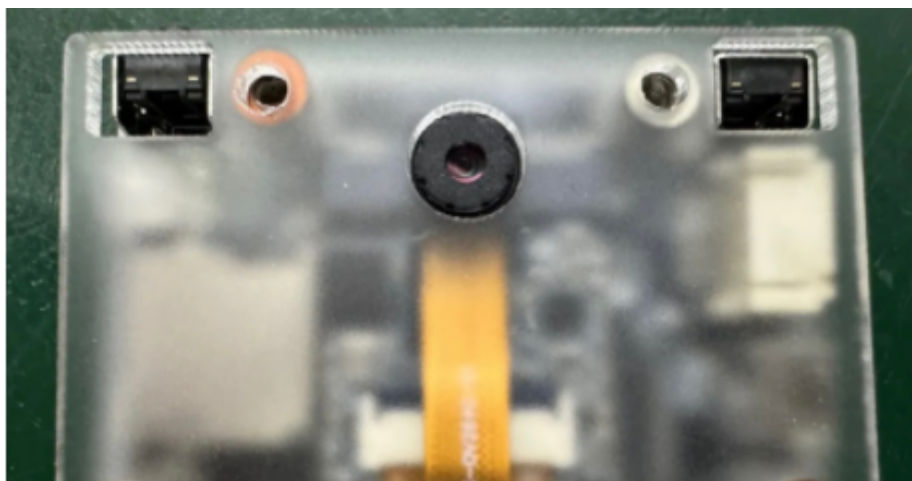
When using tinybit_AI_02.kmodel model, change it to 2

When using tinybit_AI_03.kmodel model, change it to 3

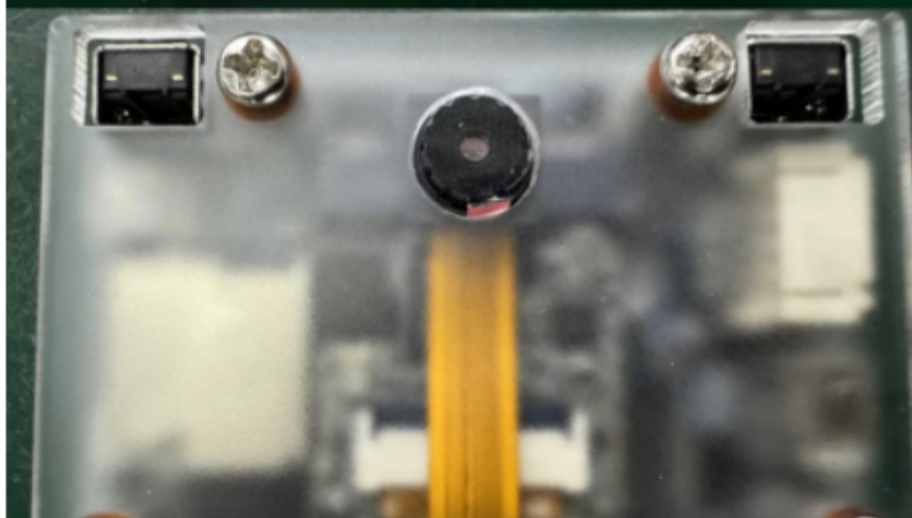
When using tinybit_AI_04.kmodel model, change it to 4

3. Delete the original main.py of the SD card, copy the changed 20_tinybit_AI_sport.py file to the directory of the SD card, and rename it to main.py.

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The camera cable has silk screen printing for the old version.



The camera cable without silk screen is a new version