

k230 license plate recognition

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k230 and RDK X5 communication

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1. Experimental Prerequisites

This tutorial uses the RDK X5 development board, and the corresponding routine path is [14.export\RDK-K230\17_k230_licence_rec.py].

K230 needs to run the [14.export\CanmvIDE-K230\17.licence_rec.py] program to start the experiment. It is recommended to download it as an offline program.

Things you need:

Windows computer

RDK X5 development board

USB to TTL module

K230 visual module (including TF card with image burned in)

Type-C data cable

Connection cable

2. Experimental wiring

k230 vision module	USB to TTL module
5V	VCC
GND	GND
TXD(IO9)	RxD
RXD(IO10)	TXD

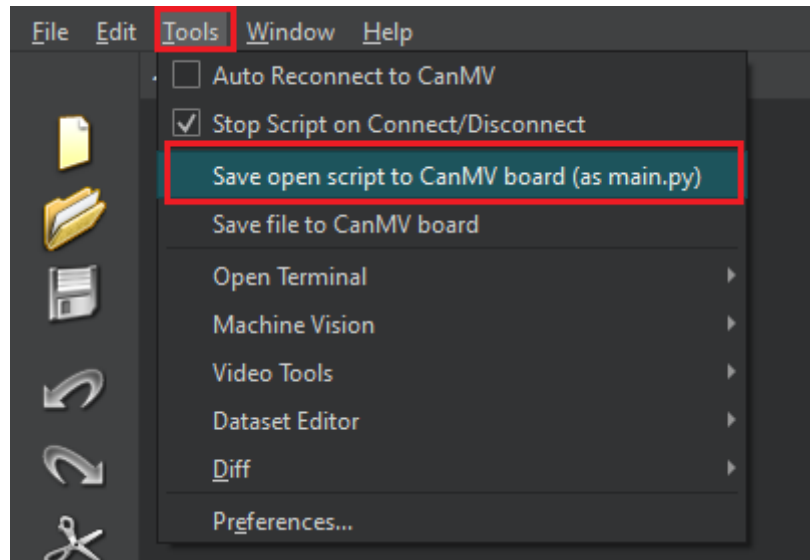
The above program is for parsing K230 data. Only when it complies with specific protocols can the corresponding data be parsed.

in

- licence_rec: msg is the license plate character information.

4. Experimental Phenomenon

1. After connecting the cables, the k230 visual module runs offline. After K230 is connected to Canmv IDE, open the corresponding program, click [Save open script to CanMV board (as main.py)] on the toolbar, and then restart K230.



2. Transfer the program file to the system, open the terminal and enter the corresponding directory, then run the following command to start the program.

```
python3 17_k230_licence_rec.py
```

3. When the K230 camera image recognizes characters, the terminal will parse and print out the information transmitted by the K230.

in

- licence_rec: msg is the license plate character information.

As shown in the figure below

[2025-04-30 12:21:23.917]# RECV ASCII>

licence_rec:' 粤A88888'

[2025-04-30 12:21:23.980]# RECV ASCII>

licence_rec:' 粤A88888'

[2025-04-30 12:21:24.042]# RECV ASCII>

licence_rec:' 粤A88888'

[2025-04-30 12:21:24.104]# RECV ASCII>

licence_rec:' 粤A88888'

[2025-04-30 12:21:24.152]# RECV ASCII>

licence_rec:' 粤A88888'

[2025-04-30 12:21:24.232]# RECV ASCII>

licence_rec:' 粤A88888'

[2025-04-30 12:21:24.278]# RECV ASCII>

licence_rec:' 粤A88888'