

# Visual Line Patrol-OpenCV

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## 1. Program Function Description

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After the program is started, the car will read the set HSV value and automatically follow the path line of the corresponding color.

The [L1] key on the handle can lock/open the motion control of the car. When the motion control is turned on, the function will be locked; when the motion control is locked, the function can be turned on.

**Note: This case needs to be run as root user, and administrator privileges are required to call the MIPI camera!**

Switch to root user

```
su root
```

Password: yahboom

## 3. Program Reference Path

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After SSH connects to the car, the source code of this function is located at,

```
/home/sunrise/yahboomcar_ws/src/yahboomcar_linefollower/yahboomcar_linefollower/linefollower.py
```

## 4. Program Startup

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### 4.1. Modify HSV Value

After SSH connects to the car, the terminal runs,

```
sudo vim  
/home/sunrise/yahboomcar_ws/src/yahboomcar_linefollower/yahboomcar_linefollower/L  
ineHSV.txt
```

Enter the range of HSV values in the format:

```
H_min,S_min,V_min,H_max,S_max,V_max
```

For example, enter the range of black lines:



