## 30. Opency application--threshold image processing

## 30.1. Use

Source code launch file path:/opt/ros/noetic/share/opencv\_apps/launch

Step 1: Start the camera

roslaunch astra\_visual opencv\_apps.launch img\_flip:=false

• img\_flip parameter: whether the image needs to be flipped horizontally, the default is false.

The [usb\_cam-test.launch] file opens the [web\_video\_server] node by default, and you can directly use the [IP:8080] web page to view images in real time.

Step 2: Start the corner detection function of Opencv\_apps

roslaunch opencv\_apps threshold.launch # Threshold image processing

Each functional case will have a parameter [debug\_view], Boolean type, whether to use Opencv to display images, which is displayed by default.

If no display is required, set it to [False], for example

roslaunch opencv\_apps contour\_moments.launch debug\_view:=False

However, after starting in this way, some cases cannot be displayed in other ways, because in the source code, some [debug\_view] is set to [False], which will turn off image processing.

## 30.2. Display method

rqt\_image\_view

Enter the following command to select the corresponding topic

rqt\_image\_view

opencv

The system displays it by default, no need to do anything.

Web viewing

(Same as under LAN) Enter IP+port in the browser, for example:

192.168.2.116:8080

For specific IP, use your current virtual machine IP.

## 30.3. Effect display

The picture below is the threshold transformation diagram after processing.

