17. Feature point tracking

17.1. 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 the image in real time.

Step 2: Start the corner detection function of Opencv_apps

roslaunch opencv_apps goodfeature_track.launch # Feature point tracking

Each function case will have a parameter [debug_view], Boolean type, whether to use Opencv to display the image, the default is displayed.

If you don't need to display, set it to [False], for example

roslaunch opencv_apps goodfeature_track.launch debug_view:=False

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

17.2, Display method

rqt_image_view

Enter the following command and select the corresponding topic

rqt_image_view

opencv

The system displays by default, no processing is required.

Web viewing

(Under the same LAN) Enter IP+port in the browser, for example:

192.168.2.116:8080

For specific IP, use your current virtual machine IP.

17.3, Effect display

You can see an adjustable window on the screen, and object feature points appear at the same time.

