

## 7. Web page real-time monitoring

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**The operating environment and software and hardware reference configurations are as follows:**

- Reference model: ROSMASTER X3
- Robot hardware configuration: Arm series master, Slan A1 LiDAR, AstraPro Plus depth camera
- Robot system: Ubuntu (version not required) + docker (version 20.10.21 and above)
- PC VM: Ubuntu (20.04) + ROS2 (Foxy)
- Usage scenario: Used on a relatively clean 2D plane

### 7.1. Environment Construction

The web video server function package corresponding to ros2 needs to be installed. The environment has been configured in the docker container. Here, docker is used to demonstrate

### 7.2. Steps

This is demonstrated with the AstraPro Plus camera, other cameras can also be used (monocular, binocular, etc.)

#### 7.2.1. Enter the docker container

Enter the docker container step see the docker course section [ 5. enter the robot docker container ]

Here, you just need to ensure proper mount cameras have been used.

#### 7.2.2. Start related node

In the docker container, launch the camera

```
ros2 launch astra_camera astro_pro_plus.launch.xml
```

In the docker container, launch the web\_video\_server

```
ros2 launch web_video_server view_web_video_demo_launch.py
```

## 7.3. effect demonstration

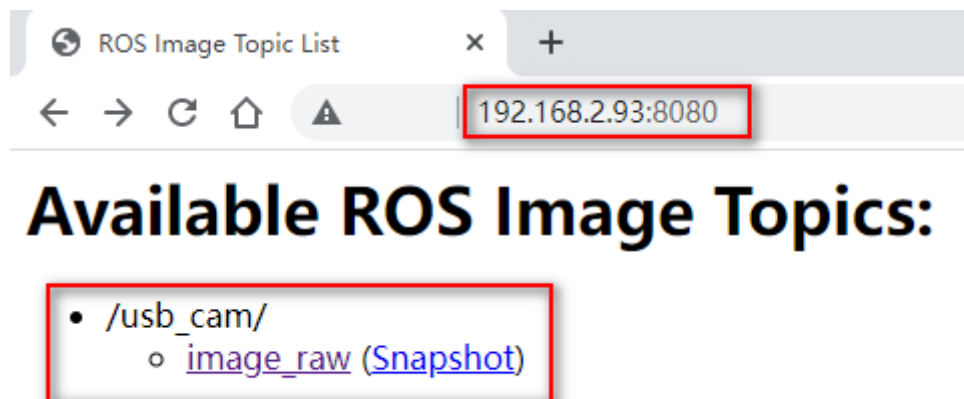
- View in local web browser

```
http://localhost:8080/
```

- View other devices (must be under the same LAN, 192.168.2.93 is the IP address of the master)

```
http://192.168.2.93:8080/
```

Note: It is recommended to use Google Chrome, other browsers may not be able to open the image



Click [image\_raw] to view the camera image in real time, and click [Snapshot] to display only one frame of image.

### **/camera/color/image\_raw**

