# Four types of detection(traffic)

#### Four types of detection(traffic)

- 1. Video detection
- 2. Real-time detection
  - 2.1. USB camera
  - 2.2 CSI Camera

Four types of detection are the case demonstrations that come with DeepStream: detecting and counting people, cars, road signs, and bicycles in the picture.

The tutorial only provides basic demonstrations, and other applications need to be developed by users

## 1. Video detection

Enter the folder where the case is located:

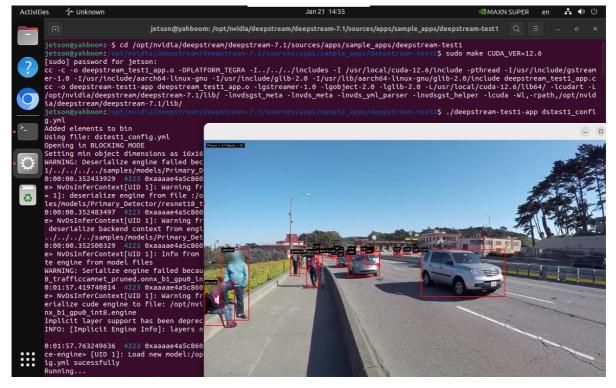
cd /opt/nvidia/deepstream/deepstream-7.1/sources/apps/sample\_apps/deepstreamtest1

Compile source code: refer to README in the same folder

sudo make CUDA\_VER=12.6 # Factory image compiled, no user compilation required

Run the case: refer to dstest1\_config.yml in the same folder

```
./deepstream-test1-app dstest1_config.yml
or
./deepstream-test1-app ../../../samples/streams/sample_720p.h264
```



Configuration Files: dstest1\_config.yml

```
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source:
 location: ../../../samples/streams/sample_720p.h264
streammux:
 batch-size: 1
 batched-push-timeout: 40000
 width: 1920
 height: 1080
# Inference using nvinfer:
primary-gie:
 plugin-type: 0
 config-file-path: dstest1_pgie_config.yml
## Inference using nvinferserver:
#primary-gie:
# plugin-type: 1
# config-file-path: dstest1_pgie_nvinferserver_config.txt
```

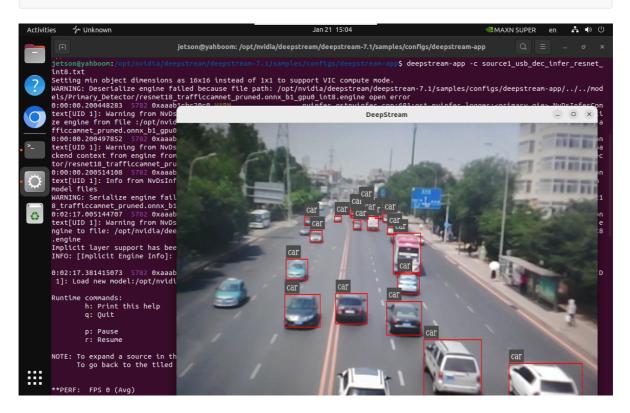
# 2. Real-time detection

If there are multiple cameras, modify the .txt configuration file yourself: The following cases are the results when the motherboard is connected to only one camera.

### 2.1. USB camera

cd /opt/nvidia/deepstream/deepstream-7.1/samples/configs/deepstream-app

deepstream-app -c source1\_usb\_dec\_infer\_resnet\_int8.txt



#### 2.2 CSI Camera

cd /opt/nvidia/deepstream/deepstream-7.1/samples/configs/deepstream-app

deepstream-app -c source1\_csi\_dec\_infer\_resnet\_int8.txt

