

Multimodal Visual Understanding (Voice Version)

Before running the function, you need to close the App and large programs. For the closing method, refer to [4. Preparation] - [1. Manage APP control services].

1. Function Description

After the program runs, wake up the voice module and ask questions about vision or describe the current scene. The program will capture an image of the current environment and upload it to the Alibaba Cloud platform, then the vision model will analyze the image with the question and finally provide an answer.

2. Startup

Users with Jetson-Nano mainboard version need to enter the docker container first and then input the following command. Users with Orin mainboard can directly open the terminal and input the following command,

```
ros2 launch largemode1 largemode1_control.launch.py
```

After waking up the module, give vision-related commands. You can refer to the following example,

```
Describe the scene you see.
```

The captured photo is saved at:

`LargeModel_ws/install/largemodel/share/largemode/resources_file/image.png`



3. Core Code Analysis seehat

You can refer to the content in **3. Core Code Analysis seehat** from tutorial [17. AI Model - Text Version] - [2. Multimodal Visual Understand]. The voice version and text version have the same action functions, only the task command input method is different.