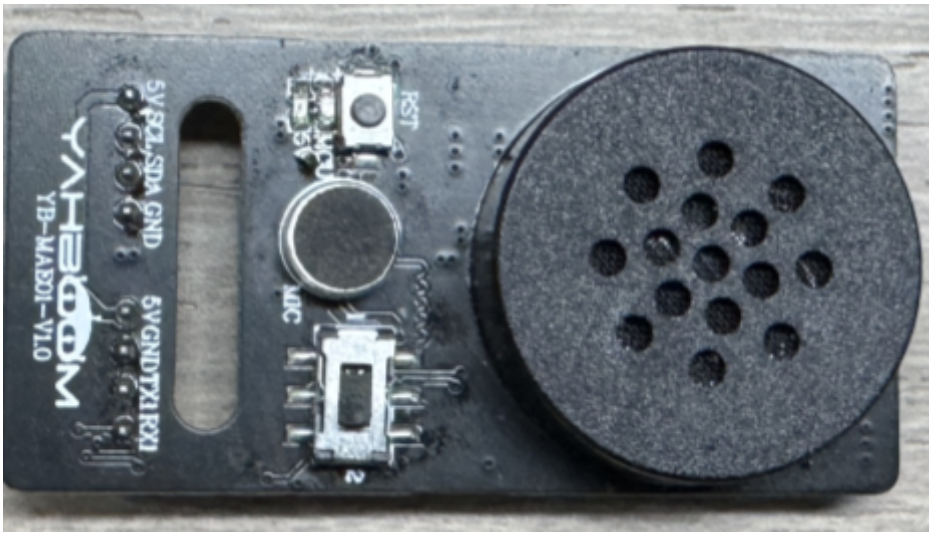
How to use old voice module in new image

1. Tutorial Notes

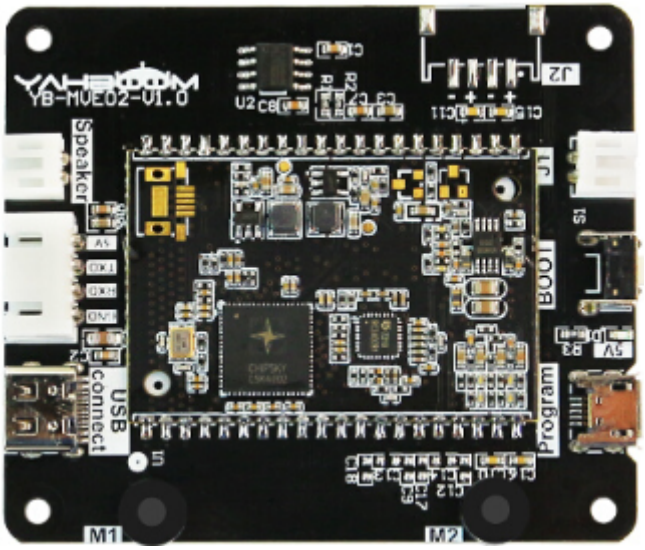
As of September 2025, all our rosmaster car images have been updated with the latest voice interaction module. If you would like to use the old secondary microphone interaction module with the new image, please refer to this tutorial.

2. New/Old Voice Interaction Module

The image below shows the new voice interaction module. Be careful not to confuse them.



The picture below is the old two-microphone interaction module.



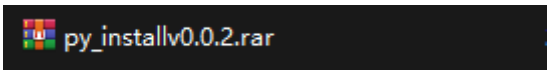
3. Steps to Convert Old Second Microphones to Compatible with the New Image

Note: The driver library environment for the new voice interaction module is already installed and set up at the factory. If you wish to revert to the old voice interaction module, please refer to the following tutorial

1. You can find the corresponding Python driver library for the voice module in the source code summary and reinstall it.

The driver library for the old voice interaction module is py_install_V0.0.1

The driver library corresponding to the new voice interaction module is py_install_V0.0.2



2. Python Driver Library Installation Steps

You can find the compressed package py_install_V0.0.1.rar in the source code section of the course materials. Place this package in the user directory of the corresponding board. Open a terminal and unzip it. (If the ROS environment is installed and running in a Docker container, you will need to place this package in the Docker container for decompression and installation.)

```
sudo apt install unrar
unrar x py_install_V0.0.1.rar
```

```
jetson@yahboom:~/Downloads$ unrar x py_install_V0.0.1.rar

UNRAR 5.50 freeware      Copyright (c) 1993-2017 Alexander Roshal


Extracting from py_install_V0.0.1.rar

Creating    py_install_V0.0.1                                         OK
Creating    py_install_V0.0.1/py_install                              OK
Creating    py_install_V0.0.1/py_install/build                        OK
Creating    py_install_V0.0.1/py_install/build/lib                    OK
Creating    py_install_V0.0.1/py_install/build/lib/Speech_Lib         OK
Extracting  py_install_V0.0.1/py_install/build/lib/Speech_Lib/Speech_Lib.py  OK
Extracting  py_install_V0.0.1/py_install/build/lib/Speech_Lib/__init__.py  OK
Creating    py_install_V0.0.1/py_install/dist                         OK
Extracting  py_install_V0.0.1/py_install/dist/Speech_Lib-0.0.1-py3.6.egg  OK
Extracting  py_install_V0.0.1/py_install/README.md                    OK
Extracting  py_install_V0.0.1/py_install/setup.py                     OK
Creating    py_install_V0.0.1/py_install/Speech_Lib                   OK
Creating    py_install_V0.0.1/py_install/Speech_Lib/.ipynb_checkpoints  OK
Extracting  py_install_V0.0.1/py_install/Speech_Lib/.ipynb_checkpoints/Speech_Lib-checkpoin
t.py  OK
Extracting  py_install_V0.0.1/py_install/Speech_Lib/Speech_Lib.py     OK
Extracting  py_install_V0.0.1/py_install/Speech_Lib/__init__.py       OK
Creating    py_install_V0.0.1/py_install/Speech_Lib.egg-info          OK
Extracting  py_install_V0.0.1/py_install/Speech_Lib.egg-info/dependency_links.txt  OK
Extracting  py_install_V0.0.1/py_install/Speech_Lib.egg-info/PKG-INFO  OK
Extracting  py_install_V0.0.1/py_install/Speech_Lib.egg-info/SOURCES.txt  OK
Extracting  py_install_V0.0.1/py_install/Speech_Lib.egg-info/top_level.txt  OK
Creating    py_install_V0.0.1/py_install/build/bdist.linux-aarch64    OK
All OK
jetson@yahboom:~/Downloads$
```

The image above shows a successful decompression.

Then install it on your system using the following command:

```
cd py_install_V0.0.1/
```

```
jetson@yahboom:~/Downloads$ cd py_install_V0.0.1/
jetson@yahboom:~/Downloads/py_install_V0.0.1$
```

```
sudo python3 setup.py install
```

Enter the user password and press Enter to confirm. If you see the installation prompt Speech_Lib=x.x.x version number, it means the installation is successful.