

# NVIDIA Jetson AGX Orin 64GB Setup

## Setup VNC server on the Jetson developer kit

I am following the howto: <https://developer.nvidia.com/embedded/learn/tutorials/vnc-setup>

## ReSpeaker USB Microphone Array

Flashing new firmware according to <https://wiki.seeedstudio.com/ReSpeaker-USB-Mic-Array/>

I am flashing the **“1 channel firmware”**:

```
sudo apt-get update
sudo pip install pyusb click

git clone https://github.com/respeaker/usb_4_mic_array.git
cd usb_4_mic_array

# if you want to use 1 channel, then the command should be like:
sudo python dfu.py --download 1_channel_firmware.bin

# Alternative, did not work for me (mic not showing up in GNOME):
# sudo python dfu.py --download 6_channels_firmware.bin # The 6 channels
version
```

Then disconnect ReSpeaker from USB and reconnect. The microphone occurs in the GNOME audio settings menu.

### More ReSpeaker Info from SeeedStudio Wiki

- [https://wiki.seeedstudio.com/ReSpeaker\\_Product\\_Guide/](https://wiki.seeedstudio.com/ReSpeaker_Product_Guide/)
- [https://wiki.seeedstudio.com/ReSpeaker\\_Mic\\_Array\\_v2.0/](https://wiki.seeedstudio.com/ReSpeaker_Mic_Array_v2.0/)

## Install Audacity

To test the microphone and to record audios for training the LLM and ASR.

**Don't do that:** Grants access to also sound system to Audacity:

```
sudo snap connect audacity:alsa
```

This does not work! **Rather click on button “Start and ask next time”** when Audacity comes up.

# Whisper

[https://www.jetson-ai-lab.com/tutorial\\_whisper.html](https://www.jetson-ai-lab.com/tutorial_whisper.html)

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