

1. The Raspberry Pi opens the I2C settings.

PS: The Raspberry Pi RGB_Cooling_HAT and Raspberry Pi control method is operated by I2C, so we need to enable the Raspberry Pi I2C service.

Input command:

sudo raspi-config

Then, select the **【Interfacing Options】**

```
Raspberry Pi Software Configuration Tool (raspi-config)

1 Change User Password Change password for the current user
2 Network Options      Configure network settings
3 Boot Options         Configure options for start-up
4 Localisation Options Set up language and regional settings to match your location
5 Interfacing Options  Configure connections to peripherals
6 Overclock            Configure overclocking for your Pi
7 Advanced Options     Configure advanced settings
8 Update               Update this tool to the latest version
9 About raspi-config   Information about this configuration tool

<Select>                                <Finish>
```

Select **【P5 I2C】** and confirm with “YES”.

```
Raspberry Pi Software Configuration Tool (raspi-config)

P1 Camera      Enable/Disable connection to the Raspberry Pi Camera
P2 SSH         Enable/Disable remote command line access to your Pi using SSH
P3 VNC         Enable/Disable graphical remote access to your Pi using RealVNC
P4 SPI         Enable/Disable automatic loading of SPI kernel module
P5 I2C         Enable/Disable automatic loading of I2C kernel module
P6 Serial      Enable/Disable shell and kernel messages on the serial connection
P7 1-Wire      Enable/Disable one-wire interface
P8 Remote GPIO Enable/Disable remote access to GPIO pins

<Select>                                <Back>
```

```
Would you like the ARM I2C interface to be enabled?

<Yes>                                <No>
```

2. Install wiringPi

PS: Raspberry Pi official raspbian system will bring its own wiringPi by default. You can run **gpio -v** to view the version. If there is, skip this step.

Input command:

```
cd ~  
git clone git://git.drogon.net/wiringPi
```

If this command cannot be downloaded, use the following command to download the unofficial wiringPi image:

```
git clone https://github.com/WiringPi/WiringPi.git
```

```
cd WiringPi  
sudo ./build
```

3. Install gcc

PS: Raspberry Pi official raspbian system will bring its own wiringPi by default. You can run `gpio -v` to view the version. If there is, skip this step.

Input command to install gcc:

```
sudo apt-get install gcc
```

4. Oled display drive

Just need to put the three driver files of the oled driver library (ssd1306_i2c.c/ ssd1306_i2c.h/oled_fonts.h) in the same folder as the source code need to be run, and compile with gcc command.

Eg:

```
gcc -o oled oled.c ssd1306_i2c.c -lwiringPi  
./oled
```