

**The following steps will teach you how to start the Raspberry Pi system image**

### 1. Power supply:

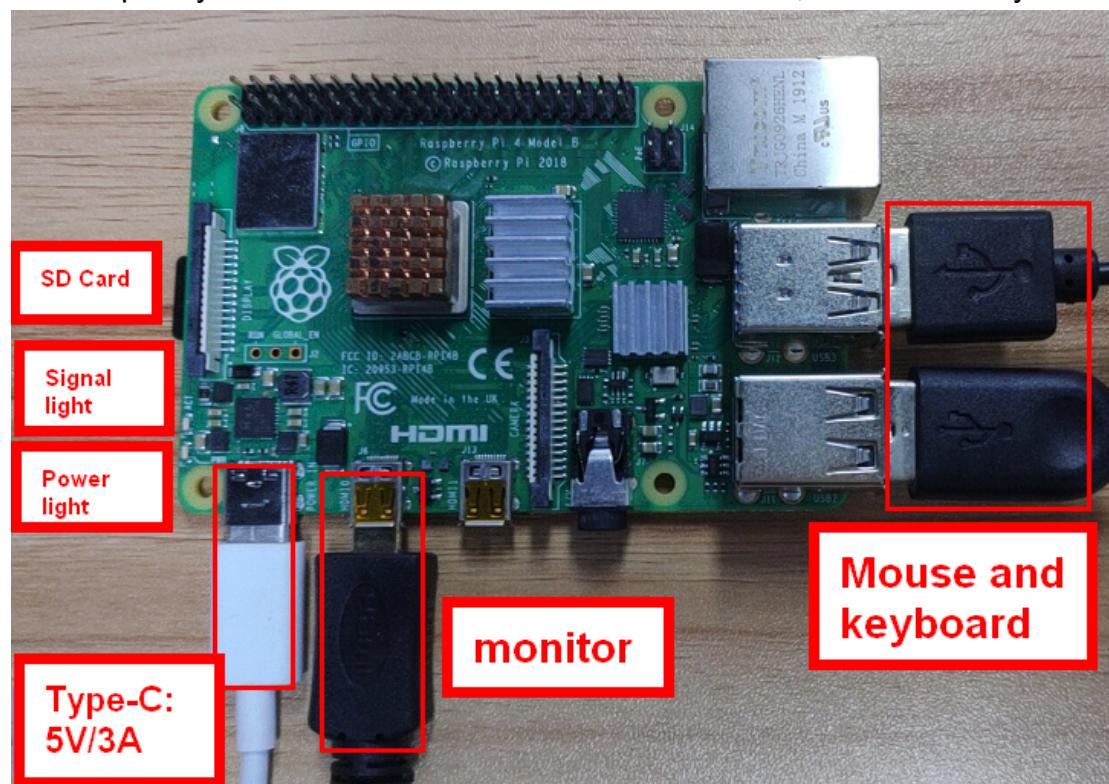
The Raspberry pi board can adopt two power supply modes:

- 1) Type-C: the power adapter is 5V/3A.
- 2) You can connect the expansion board of Yahboom car Raspberry pi board by 40pin line to supply power to it.  
(In case of stable power supply: red power indicator LED on, and the yellow-green signal indicator LED will flash occasionally)
- 3) Powering with POE: You need to purchase another POE hat, which can be powered by a network cable POE.

### 2. Start the system image (Type-C power supply)

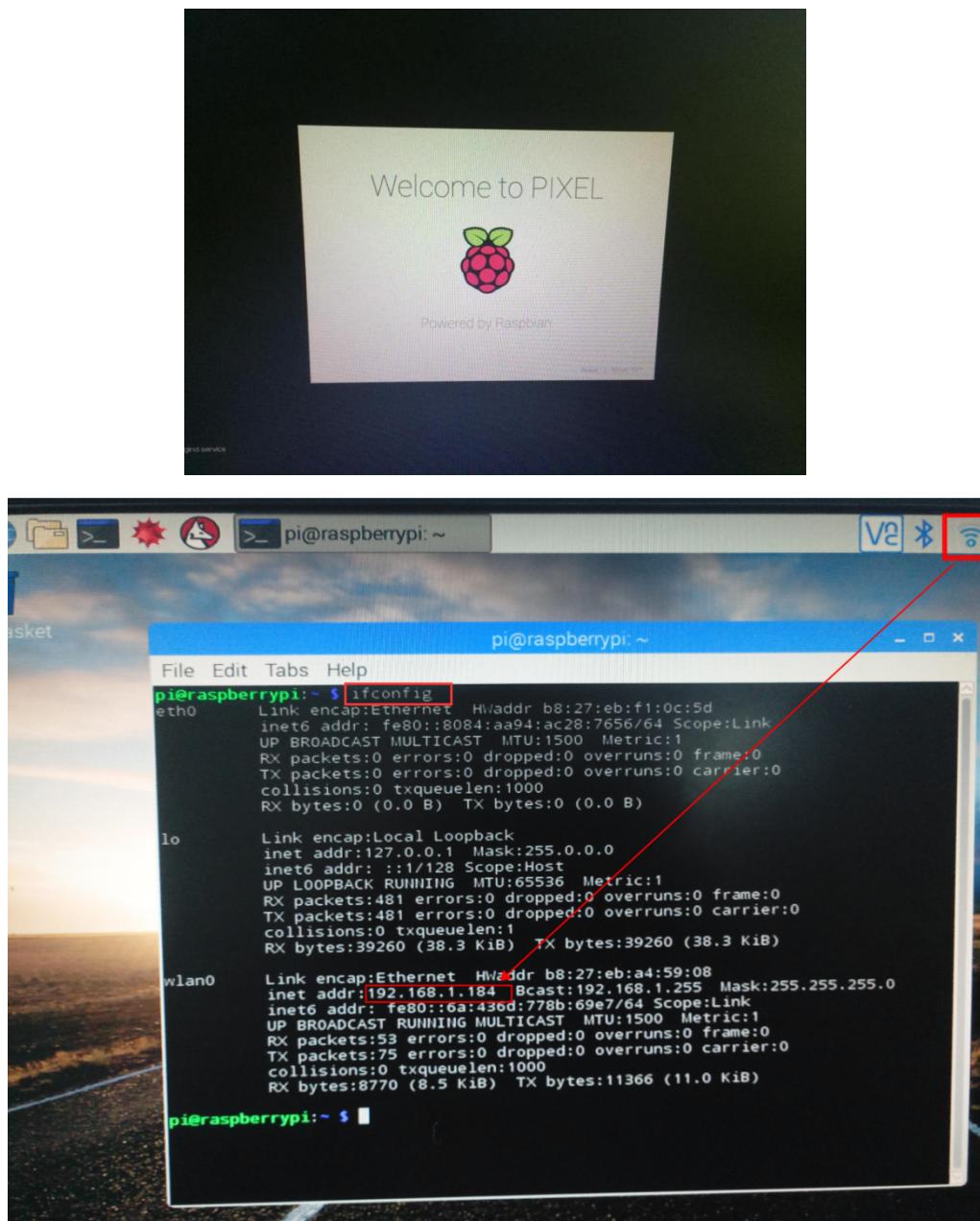
**Case2-1:** If you are using the official original system image of the Raspberry pi or your system image.

After the system image is written, you should insert the SD card directly into the Raspberry Pi to run. we need to connect the monitor, mouse and keyboard.



After entering the system, you can connect to the currently available WIFI(Raspberry Pi 3 Mode B+/4B can be connected to 5G WIFI). You need to open the command line terminal in the Raspberry Pi system and input: `ifconfig` to search the IP address of the Raspberry Pi, as shown in the figure below.

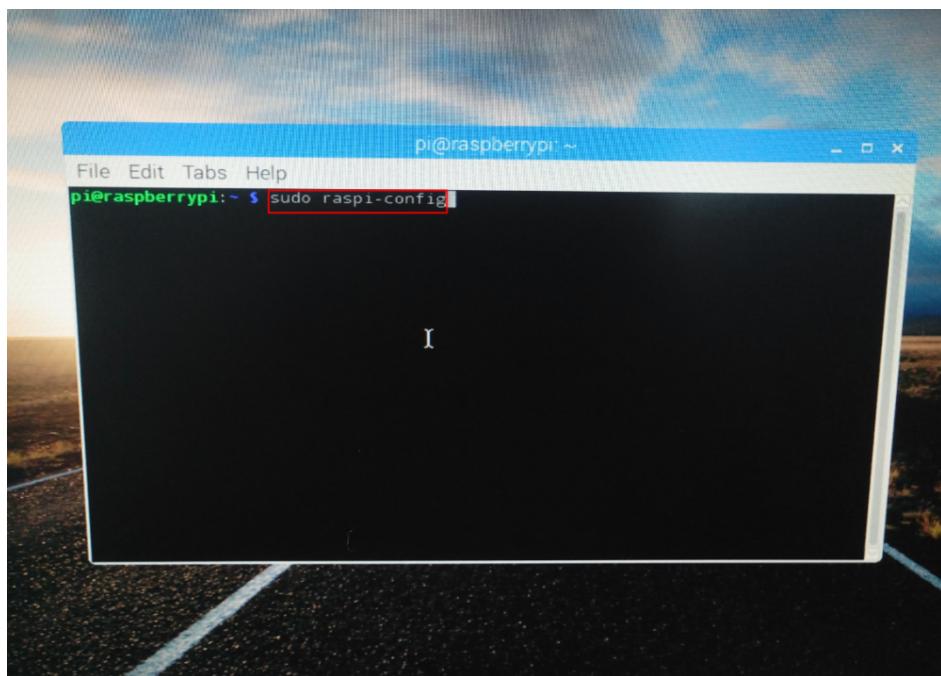
(Note:just for example:my IP address of the Raspberry Pi is 192.168.1.184)



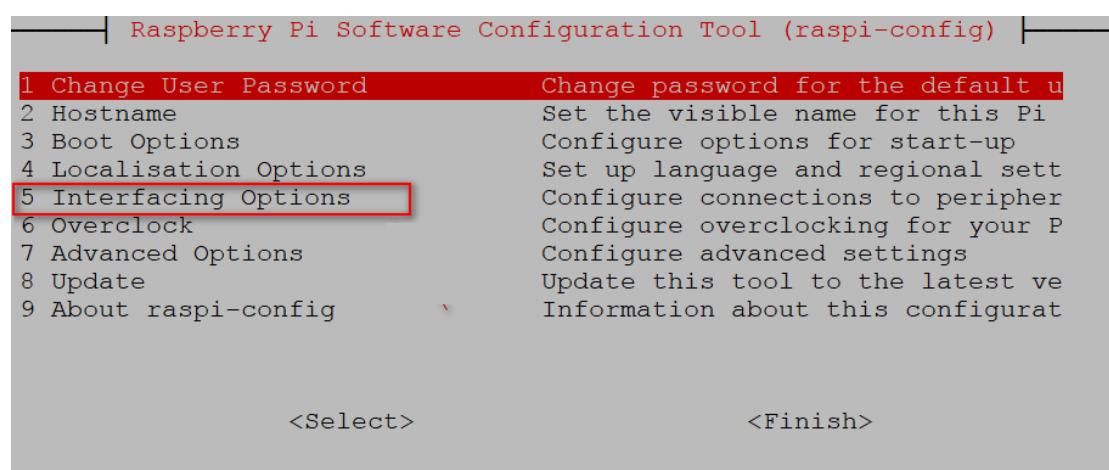
### The following steps will teach you how to open SSH service

(Note:Official original system image of the Raspberry pi without SSH service, so we need to open this service by ourself.)

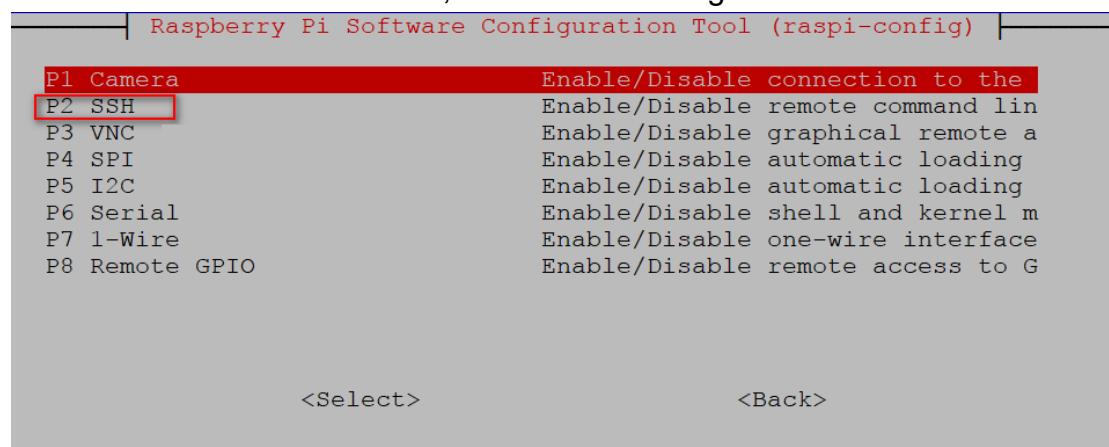
- 1.You need to open the command line terminal in the Raspberry Pi system and input:**sudo raspi-config** ,as shown in the figure below.



2. You should choose :**5 Interfacing Options**, as shown in the figure below.



3. You should choose :**P2 SSH**, as shown in the figure below.



After the above steps, we have opened the SSH service successfully.

After rebooting the system, you can use PuTTY software to remote login into the system.

Official original system image of the Raspberry Pi:

**Use name: pi**

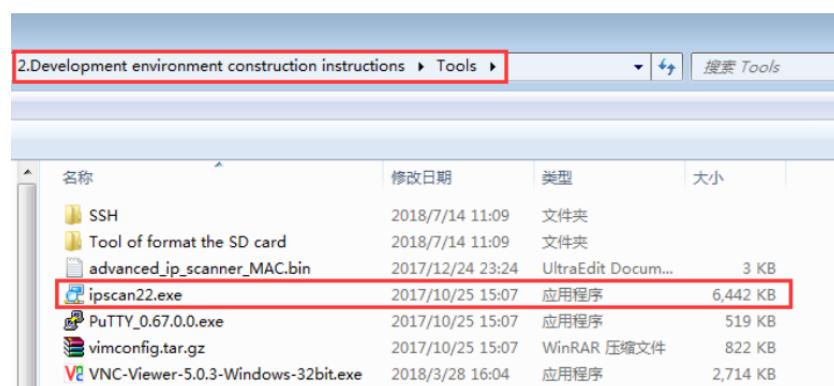
**Password: raspberry**

**Root password: raspberry**

### The following steps will teach you how to obtain IP address

You need to insert the Internet cable into the Raspberry Pi board, and the indicator light of the Raspberry Pi network port will flash. You can get the IP address of the Raspberry Pi by IP SCAN software.

(Note : This software in the Tools folder)



You can double-click to use it.

Status	Name	IP	Manufacturer	MAC address
+ 192.168.0.1	192.168.0.1		BC:46:99:ED:50:C3	
+ ROOMS	192.168.0.66		FC:AA:14:57:A9:41	
+ 192.168.0.100	192.168.0.100		58:7F:66:F5:AB:0B	
+ EN46T88BDGUDPI19	192.168.0.101		2C:4D:54:56:F6:71	
+ DESKTOP-F4FAVSJ	192.168.0.103		08:57:00:98:28:A0	
+ EN46T88BDGUDPI19	192.168.0.105		2C:4D:54:56:F6:71	
+ MS-20160304UNE0	192.168.0.106		2C:20:0B:21:9E:76	
+ MS-20160304UNE0	192.168.0.107	Liteon Technology Corp...	44:6D:57:33:26:0C	
+ MS-20160229WKOH	192.168.0.108		3C:46:D8:7D:08:44	
+ 192.168.0.109	192.168.0.109		E0:DD:C0:43:88:36	
+ ROOMS	192.168.0.112		68:3E:34:80:A5:22	
+ DESKTOP-F4FAVSJ	192.168.0.114		74:23:44:E7:8C:1B	
+ ADMIN-PC	192.168.0.115		2C:4D:54:F0:9A:50	
+ 192.168.0.116	192.168.0.116		6C:5C:14:B7:1B:FD	
+ EN46T88BDGUDPI19	192.168.0.117		B8:27:EB:D9:A9:1A	
+ XZSCUMWJ6VGHQVM	192.168.0.118	GIGA-BYTE TECHNOLOG...	00:1F:D0:B7:11:73	
+ MS-20160219Q	192.168.0.119		40:8D:5C:82:2A:32	
+ Rooms	192.168.0.120	Intel Corporate	4C:EB:42:6E:F0:32	
+ MS-20160219Q	192.168.0.123		F8:A4:5F:84:04:BC	
+ MS-20150803NLGC	192.168.0.125	Intel Corporate	74:E5:0B:49:8E:38	
+ MS-20160111FUEO	192.168.0.125	Raspberry Pi Foundation	B8:27:EB:D9:A9:1A	

Then you can remote login into the system with this IP address.



To start and access the Raspberry Pi, there are three main ways:

**Raspberry Pi raspbian system user name is pi, password defaults to raspberry; root user password is raspberry.**

1. Directly to the Raspberry Pi to connect an HDMI display and mouse and keyboard, and then directly operate after open the power;
2. Access the Raspberry Pi via SSH or serial port, we need to use the putty tool here;
3. Remotely log in to the Raspberry Pi by the VNC service (requires configuration).