## How to Use the Camera

1. When installing the Raspberry Pi system (my system image is 2017-01-11-raspbian-jessie-lite), the system can be selected by yourself and is compatible with most of the mirrored systems.

2. Enter the Raspbian system.



# 3. Use raspi-config to configure the camera, then execute sudo raspi-config.



Move the cursor to the Enable Camera item and enter.

ở pi@raspberrypi: ~			
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	Raspberry Pi Software Cont	figuration Tool (raspi-config)	
1 Ex;	pand Filesystem	Ensures that all of the SD card s	
2 Ch	ange User Password	Change password for the default u	
3 Bo	ot Options	Configure options for start-up	
4 In	ternationalisation Options	Set up language and regional sett	
5 En	able Camera	Enable this Pi to work with the R	
6 Ov	erclock	Configure overclocking for your P	
7 Ad	lvanced Options	Configure advanced settings	
8 Ab	out raspi-config	Information about this configurat	
			_
	<select></select>	<finish></finish>	=
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### Select YES and OK.



#### Select Finish.

🛃 pi@raspberrypi: ~			
			^
Raspberry Pi S	Software Con	figuration Tool (raspi-config)	
1 Expand Filesystem		Ensures that all of the SD card s	
2 Change User Passwor	rd	Change password for the default u	
3 Boot Options		Configure options for start-up	
4 Internationalisatio	on Options	Set up language and regional sett	
5 Enable Camera		Enable this Pi to work with the R	
6 Overclock		Configure overclocking for your P	
7 Advanced Options		Configure advanced settings	
8 About raspi-config		Information about this configurat	
< Se1	lect>	<pre><finish></finish></pre>	=
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#### Click Yes

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		^
	Would you like to reboot now?	
	<yes> <no></no></yes>	E
		-

4. Re-enter the system terminal and set up picture taking and photography.

1) To take a picture, please execute the following statement in the terminal. 123.jpg is the name of the photo, which can be

set.

🧬 pi@raspberrypi: ~ 📃 🖃 💻 🗠	3			
login as: pi pi@192.168.1.161's password:	*			
The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.				
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. Last login: Fri Dec 7 05:14:38 2018 from 192.168.1.142				
SSH is enabled and the default password for the 'pi' user has not been changed. This is a security risk - please login as the 'pi' user and type 'passwd' to set a new password.				
pi@raspberrypi:~ \$ ls				
<pre>lesson1_Hello_World rpi_relay_4 wiringPi-b0a60c3 wiringPi-b0a60c3.tar.gz pi@raspberrypi:~ \$ raspistill -o 123.jpg pi@raspberrypi:~ \$ ls 123.jpg rpi_relay_4 wiringPi-b0a60c3.tar.gz lesson1_Hello_World wiringPi-b0a60c3 pi@raspberrypi:~ \$</pre>				
	-			

Generate pictures taken by the camera, which can be exported via the WinSCP software.



2) The camera asks the terminal to execute the following statement.

raspivid -o 1234.h264 -t 10000(-t 10000 means record for 10

s, users can adjust it according to their needs).

🛃 pi@raspberrypi: ~	3			
The programs included with the Debian GNU/Linux system are free software;				
the exact distribution terms for each program are described in the				
individual files in /usr/share/doc/*/copyright.				
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent				
permitted by applicable law. Last login: Fri Dec. 7.05:14:38.2018 from 192.168.1.142				
SSH is enabled and the default password for the 'pi' user has not been changed.				
This is a security risk - please login as the 'pi' user and type 'passwd' to set				
a new password.				
pi@raspberrypi:~ \$ ls				
Lessoni Hello World rpi_relay 4 WiringPi-B0a60c3 WiringPi-B0a60c3.tar.gz				
pigraspherrypi:- > raspistii -0 123.jpg				
123.ipg rpi relay 4 wiringPi-b0a60c3.tar.gz				
lesson1 Hello World wiringPi-b0a60c3				
pi@raspberrypi:~ S_raspivid -o 1234.h264 -t 10000				
pi@raspberrypi:~ \$ ls				
1234.h264 lesson1 Hello_World wiringPi-b0a60c3				
123.jpg rpi_relay_4 wiringPi-b0a60c3.tar.gz				
pi@raspberrypi:~ \$	$\nabla$			

Generate the video taken by the camera, you can use WinSCP

software to export the video.

🚰 pi - pi@192.168.1.154 - WinSCP					
Local Mark Files Commands Session Options Remote Help					
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📮 pi@192.168.1.154 🚅 New Session					
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