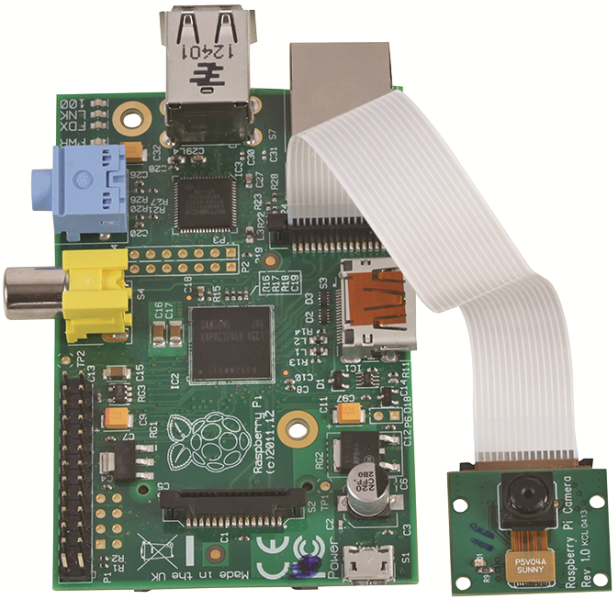
Raspberry Pi Camera – Quick start guide



Quick start guide to setting up your Raspberry Pi Camera

First, please download the latest Raspbian image (2013-02-09-wheezy-raspbian.img) and install it onto your SD card. Please ensure that your SD card is at least 4 GB in size.

Then, connect the Camera module to the CSI port on the Raspberry Pi computer.

Please note that the Raspberry Pi must be powered down before connecting the Pi Camera

Configure your Raspberry Pi

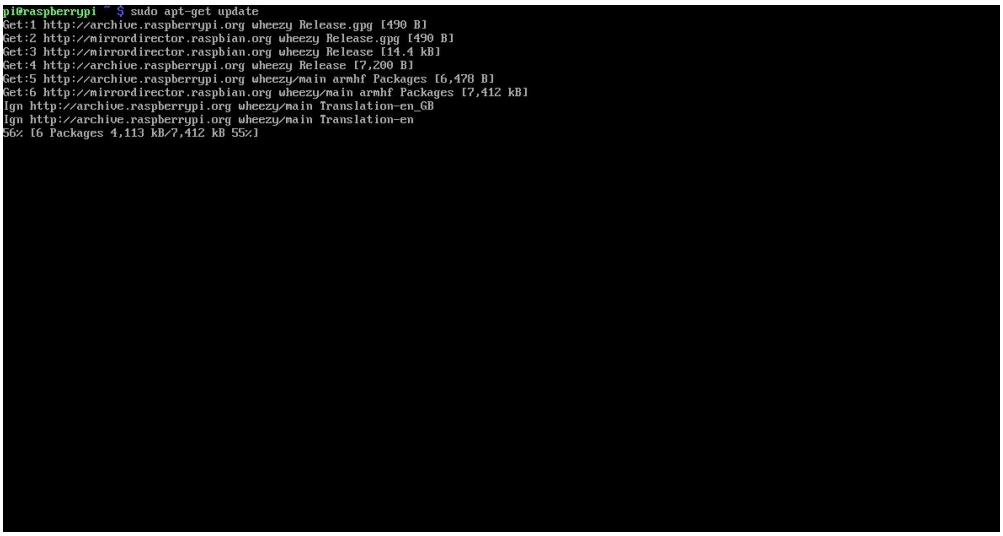
Once booted you can login to your Raspberry Pi using the following credentials

Username: **pi**

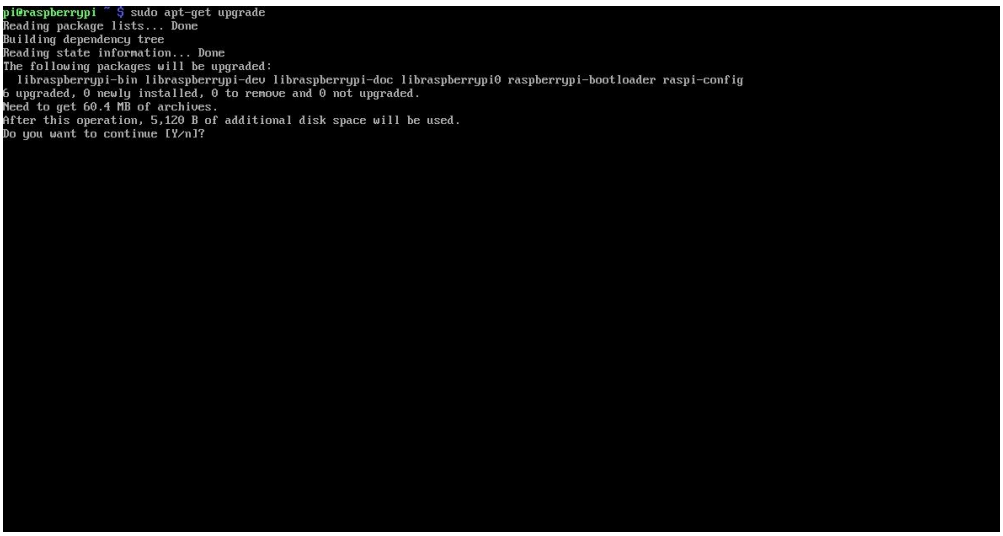
Password: **raspberry**

Run the following command in terminal to upgrade the Raspberry Pi's firmware to the latest version

Sudo apt-get update



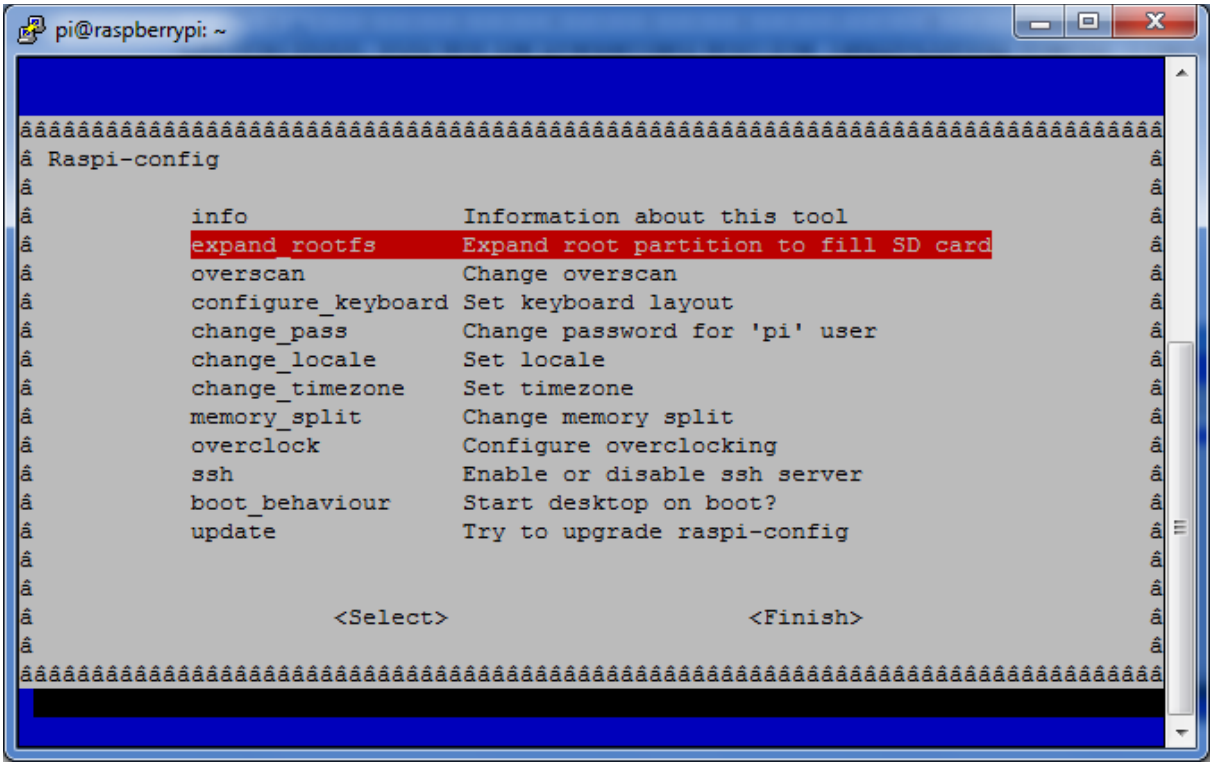
Sudo apt-get upgrade



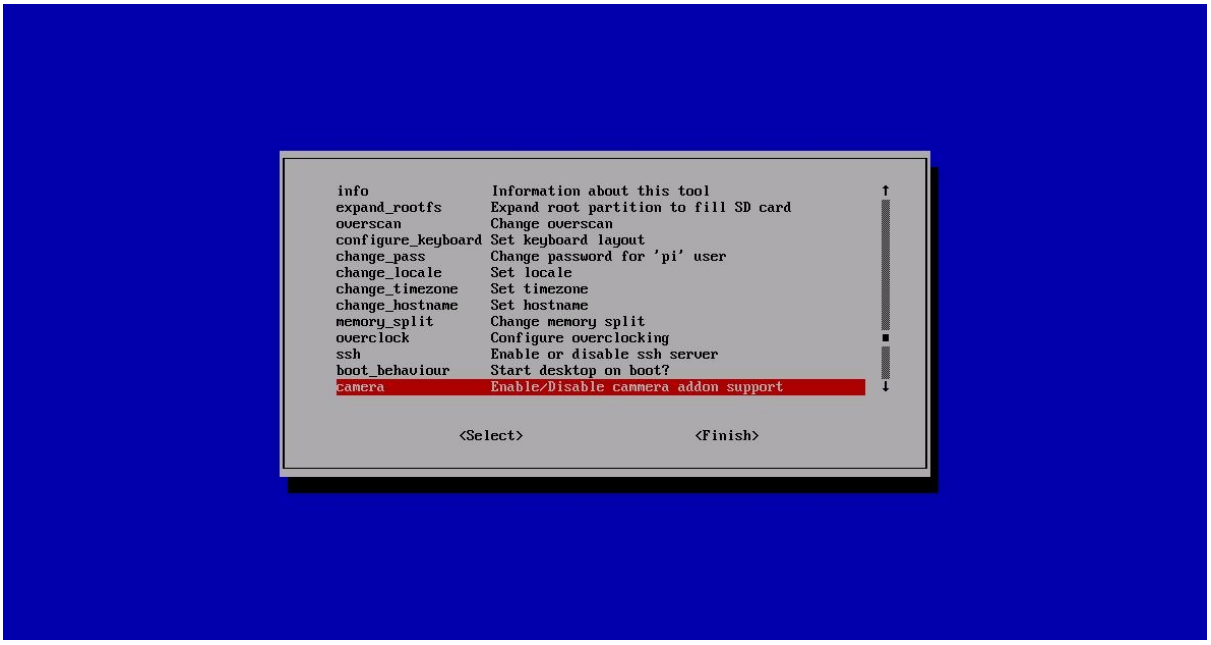
Access the configuration settings for the Pi by running the following command

Sudo raspi-config

Expand the filesystem on the Raspberry Pi



Navigate through the menu and select “Camera” then “Enable” option to enable the camera



Now select “Finish” and reboot your Raspberry Pi

Once rebooted login to your Raspberry Pi and navigate to the Pi Camera software location using the following command:-

CD /opt/vc/bin

Using the Raspberry Pi Camera Software

‘raspivid’ is a command line application that allows you to capture video with the camera module, while the application ‘raspistill’ allows you to capture images.

-o or –output specifies the output filename and -t or –timeout specifies the amount of time that the preview will be displayed in milliseconds. Note that this set to 5s by default and that ‘raspistill’ will capture the final frame of the preview period.

-d or –demo runs the demo mode that will cycle through the various image effects that are available.

To see a list of possible options for running ‘raspivid’ or ‘raspistill’, you can run:

raspivid | less

raspistill | less

Use the arrow keys to scroll and type q to exit.

Example commands

Capture an image in jpeg format:

raspistill -o image.jpg

Capture a 5s video in h264 format:

raspivid -o video.h264

Capture a 10s video:

raspivid -o video.h264 -t 10000