

Raspberry Pi Trouble? Look No Further...

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Last Updated by:

Default credentials

Username: pi	EG VERSION USERNAME: eg1004
Password: raspberry	EG VERSION PASSWORD: eg1004

Useful Installation Commands

```
sudo apt-get install python3-opencv [installs openCV]
```

Useful Terminal Commands + What They Do

```
sudo raspi-config [opens the master configuration menu]
sudo apt-get upgrade [upgrades your pi os]
sudo apt-get update [updates your pi os]
lsusb [shows all the usb devices connected]
sudo reboot [restarts the pi]
```

OpenCV Troubleshooting

```
VideoCapture(0) [captures video from primary location]
imread(frame) [Reads the frame]
imshow('window_name',frame) [display frame titled 'window_name']
imwrite('file_name', frame) [saves frame with 'file_name']
waitKey(5) [waiting for a key press]
destroyAllWindows() [kills all windows]
cvtColor(frame,cv.COLOR_BGR2GRAY) [converts frame to grayscale]
```

Camera Tips + Troubleshooting

Camera not detected

- Check plugged into "CAMERA" Port in pi NOT "DISPLAY" port
- See "useful terminal commands" for usb webcam detection

Permission Lock Issue

If you are unable to install something due to a "Permission Lock" type "sudo" before the installation command to override it