

## Installing the motion detection software

A very good (and free open-source) motion detection/surveillance software with many configuration options is motion.

We now need to install it using the command line (log in to your raspberry as user "pi"):

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```
sudo apt-get install motion
```

Some packages will be installed in the installation process; just type "y" to proceed with the installation.

As the current version of motion does not (yet) support the Raspberry camera module, we need to download and install a special build with support for this camera module.

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```
cd /tmp
sudo apt-get install -y libjpeg62 libjpeg62-dev libavformat53
libavformat-dev libavcodec53 libavcodec-dev libavutil51 libavutil-
dev libbc6-dev zlib1g-dev libmysqlclient18 libmysqlclient-dev
libpq5 libpq-dev
wget https://www.dropbox.com/s/xdfcxm5hu71s97d/motion-mmal.tar.gz
```

And now you need to unpack the downloaded file to the /tmp directory:

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```
cd /tmp
tar xzvf motion-mmal.tar.gz
```

After this unzipping, you now need to update your installed motion with the downloaded build:

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```
sudo mv motion /usr/bin/motion
sudo mv motion-mmalcam.conf /etc/motion.conf
```

You also need to enable the motion daemon so that motion will always run:

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```
sudo nano /etc/default/motion
```

and change the line to:

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```
start_motion_daemon=yes
```

We're pretty sure that the official build of motion will shortly also support the Raspberry camera module as well.

A very important command to edit the motion configuration file is

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```
sudo nano /etc/motion.conf
```