Build A DIY Motion Detecting Raspberry Pi Security Camera System...

Categories: DIY, General, General Prepping

Build A DIY Motion Detecting Raspberry Pi Security Camera System That Emails Snapshots When Triggered...

For all the technophobes, or anyone who is put off by the image of the Raspberry Pi above, THIS ISN'T TOO DIFFICULT TO DO! If you can follow simple instructions, you can build your own motion detecting camera system that will email you snapshots when it is triggered... You can have this project completed in a few hours, for around $100. That's pretty awesome if you ask me.

Right - let's get to it!

You will need the following:

- A Gmail account
- Raspberry Pi - get it [here on Amazon](http://knowledgeweighsnothing.com)
- Raspberry Pi Camera Board - get it [here on Amazon](http://knowledgeweighsnothing.com)
- 8gb SD card preloaded (to simplify things!) with the Raspbian Wheezy operating system - get one [here on Amazon](http://knowledgeweighsnothing.com)
- 5 volt 2 amp minimum power supply - get it [here on Amazon](http://knowledgeweighsnothing.com)
- USB wifi module - get one [here on Amazon](http://knowledgeweighsnothing.com)
- HDMI cable - get one [here on Amazon](http://knowledgeweighsnothing.com)
• USB Keyboard (you likely already have this)
• Optional but recommended - powered USB hub - get one [here on Amazon](http://knowledgeweighsnothing.com)

**Instructions**

Firstly connect the Raspberry Pi to your monitor or TV via the HDMI cable and then plug in your USB keyboard. If you are prompted for a username and password, these are pi and raspberry. Next type: `startx` to launch the desktop. Now connect the WIFI adapter and the camera board to the raspberry pi.

At this point there is some simple programming to do, to set everything up and get the motion detecting camera and WiFi/email working as they should. Don't worry! Instructions and the exact programming text are included on the link below. Just follow the instructions and copy the programming text exactly as it appears on the webpage. It is important that you follow the steps as laid out and be precise with copying the programming text.

[Instructions for setting up and programming the system](http://knowledgeweighsnothing.com)

All you have to do is follow the steps, add your Gmail email address and login details and you are done! You should then have a functioning, motion detecting camera that emails snap shots when it is triggered. Pretty cool