Security for you, made by you

This project was designed to provide an extra layer of security for those who don’t necessarily own their homes and aren’t permitted to make large structural changes. Nerd’s-Pi View is a lightweight and easy to build video security system designed to be cost efficient. Not only will you feel more secure when answering the door but also feel accomplished from this hands-on project.

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Here’s what you need!

Prior to starting this project, it is recommended that you have foundational knowledge about both Raspberry Pi and the Python coding language. I promise it’s not that scary!

Here is a list of parts you will need to create the basic project:

1. Raspberry Pi (Version 3 model B recommended for Wi-Fi functionality)
2. Circuit breadboard
3. Circuit wires and male to female jumper cables
4. Push-button wireless transmitter and breadboard ready receiver
5. Any USB webcam compatible with MotionEye software
6. Electric chime or bell
7. 5V DC power supply

This project uses the Raspberry Pi based MotionEye software. It is an easy to set-up and manage OS created by CCrison. So long as your Pi is powered on and connected to your network this software provides a 24-hour live feed that can be accessed by any device connected to the network with browser capability. It includes plenty of configuration options including Network Attached Storage and IP camera recognition.

With a lot of time and effort I have written a simple Python script that runs along with the MotionEye OS that utilizes the wireless doorbell to send an email notification when the doorbell has been pressed. This code is of course full customizable. Simply insert your own email content and chose which email server you wish to access.