Raspberry Pi Surveillance

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Summary: Learn to use a Raspberry Pi to create a video surveillance or home automation system.

Prerequisites

Experience with Raspbian software and linux.
Experience downloading software from the Internet.
Creation of SD cards

Introduction

A frequent use for Raspberry Pi single board computers is to create a home security system. This includes video surveillance software with motion detection. It can also include door switches, and other security triggers.

MotionEye

The most common security system is video surveillance. The Raspberry Pi is often used as a video server for security systems.

A well developed cross platform open source video processing software is called Motion.
https://motion-project.github.io/
Motion software is described in Wikipedia
https://en.wikipedia.org/wiki/Motion_(surveillance_software)

The web based front end is called MotionEye.
https://github.com/ccrisan/motioneye/wiki

A customized version of Raspian for a Raspberry Pi computer dedicated to video surveillance is called MotionEyeOS
https://github.com/ccrisan/motioneyeos/wiki

Storage of video and images

PrivateEyePi

When more capability is desired than just video surveillance, the PrivateEyePi software is used. This software includes capabilities for home automation, monitoring of doors, etc.

http://projects.privateeyepi.com/