

Nitro: A Home Security System

Team: Raymond Deng

Abstract: This project proposal is a home security system, where an infrared motion sensor generates an interrupt when it detects presence nearby and turns on a standard household light bulb and triggers a camera to take a picture. The infrared sensor used is the Onyehn IR Pyroelectric Infrared PIR Motion Sensor, which reports a range of 3m - 5m (9.8ft - 16.4ft). A 5V relay will allow the on/off connection of an external light source. A camera module will take a picture and write it to an SD card.

