

# Raspberry Pi - Home Security

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# Chapter 1

## Class Index

### 1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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## Chapter 2

# Class Documentation

### 2.1 classes.sentinal.Sentinal Class Reference

Responsible for detecting motion.

#### Public Member Functions

- `def __init__(self, camera)`
- `def capture(self)`  
*Captures an image.*
- `def compare(self, images)`  
*Compares two images and checks for differences.*
- `def off_duty(self)`  
*Stops Live Camera Feed.*
- `def on_duty(self)`  
*Starts Live Camera Feed.*

#### Public Attributes

- **camera**

#### 2.1.1 Detailed Description

Responsible for detecting motion.

#### 2.1.2 Member Function Documentation

### 2.1.2.1 compare()

```
def classes.sentinal.Sentinal.compare (
    self,
    images )
```

Compares two images and checks for differences.

Score range [-1, 1] with a value of one being a "perfect match". Diff contains the actual image differences between the two input images that we wish to visualize.

The documentation for this class was generated from the following file:

- classes/sentinal.py

## 2.2 classes.watchmen.Watchmen Class Reference

Responsible for video recording.

### Public Member Functions

- def `__init__` (self, path="./videos/")  
*Constructor.*
- def `start_capture` (self)  
*Starts Video capturing.*
- def `stop_capture` (self)  
*Stops Video Capture.*

### 2.2.1 Detailed Description

Responsible for video recording.

### 2.2.2 Constructor & Destructor Documentation

#### 2.2.2.1 `__init__`()

```
def classes.watchmen.Watchmen.__init__ (
    self,
    path = "./videos/" )
```

Constructor.

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**Parameters**

<i>path</i>	The base directory where video files should be saved
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**2.2.3 Member Function Documentation****2.2.3.1 stop\_capture()**

```
def classes.watchmen.Watchmen.stop_capture (
    self )
```

Stops Video Capture.

Sends flag to stop recording thread

The documentation for this class was generated from the following file:

- classes/watchmen.py

