
T*systemDocumentation*

Release 0.9.0

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the moving objects tracking system via two axis camera motion for raspberry pi distributions

1.1 Supported Environments

1.1.1 Requirements

Hardware

- Raspberry Pi 2,3 B, B + or higher
- Raspberry Pi Camera
- 2 servo motors
- 2 axis motion system as pan-tilt motions

Software

- OpenCV. Install via [here](#) or any other place you want.

1.1.2 Installation

Download the [latest release](#) (the .deb file) and:

```
sudo ./install.sh
```

for development mode: `sudo ./install-dev.sh`

1.1.3 Usage

```
usage: t_system [-h] [-S] [-l] [-s] [-a] [--version]
               [--cascadefile XML_FILE]

optional arguments:
  -h, --help            show this help message and exit
  -S, --show-stream     Display the camera stream. Enable the stream window.
  -l, --learn           Teach mode. Teach the object tracking parameters with
                        the trial and error method.
  -s, --security        Security Mode. Scan the around and optionally take
                        photos of visitors.
  -a, --augmented       Augmented control with the Augmented Virtual Assistant
                        A.V.A.. 'https://github.com/MCYBA/A.V.A.' is the home
                        page of the A.V.A. and usage explained into the
                        'AUGMENTED.md'.
  --version             Display the version number of T_System.
  --cascadefile CASCADEFILE
                        Specify the trained detection algorithm file for the
                        object detection ability. Sample(And Default):
                        'haarcascade_frontalface_default' for
                        frontalface_default.xml file inside the 'haarcascade'
                        folder.
```

1.1.4 Augmented

Augmented usage explained [here](#) into the AUGMENTED.md.

Supported Distributions: Raspbian. This release is fully supported. Any other Debian based ARM architecture distributions are partially supported.

CHAPTER 2

This file will reworked!

CHAPTER 3

This file will reworked!

CHAPTER 4

This file will reworked!

CHAPTER 5

License

CHAPTER 6

Indices and tables

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