
VoR12 Documentation

Release 0.2

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The Vor12 project, a mobile video camera created for object tracking experiments.

Contents:

CHAPTER 1

Introduction

The VoR12 project is a mobile video camera. It uses two Dynamixel AX-12 actuators and the OpenCV computer vision library for object tracking experiments.

- *Demos*
- *Dependencies*
- *Installation*
 - *Gnu/Linux*
 - *Windows*
 - *MacOSX*

Note: This project is still in *beta* stage, so the API is not finalized yet.

Demos

Dependencies

- Python 3.4
- OpenCV versions 3.0.0 or above
- PyAX-12
- NumPy

Note: If you use pip to install VoR12, PyAX-12 and Numpy will be automatically downloaded and installed (see the following *install* section).

OpenCV cannot be installed with pip, thus you have to install it manually.

Installation

Gnu/Linux

You can install, upgrade, uninstall VoR12 with these commands (in a terminal):

```
pip install --pre vor12  
pip install --upgrade vor12  
pip uninstall vor12
```

Or, if you have downloaded the VoR12 source code:

```
python3 setup.py install
```

Windows

You can install, upgrade, uninstall VoR12 with these commands (in a command prompt):

```
py -m pip install --pre vor12  
py -m pip install --upgrade vor12  
py -m pip uninstall vor12
```

Or, if you have downloaded the VoR12 source code:

```
py setup.py install
```

MacOSX

You can install, upgrade, uninstall VoR12 with these commands (in a terminal):

```
pip install --pre vor12  
pip install --upgrade vor12  
pip uninstall vor12
```

Or, if you have downloaded the VoR12 source code:

```
python3 setup.py install
```

CHAPTER 2

VoR12 API

VoR12 provides classes which are usable by third party tools.

Note: VoR12 is still in *beta* stage, so the API is not finalized yet.

Modules:

Packet module

Connection module

Packet module

CHAPTER 3

Developer's notes

Source code

The source code is currently available on [GitHub](#) under the terms and conditions of the *MIT license*. Fork away!

Bug reports

To search for bugs or report them, please use the VoR12 Bug Tracker at:

<https://github.com/volab/vor12/issues>

Contribute

VoR12 is written for Python versions 3.4 and above. Python 2.x is *not* supported.

The [TODO.md](#) file contains the TODO list.

All contributions should at least comply with the following PEPs:

- [PEP8](#) “Python’s good practices”
- [PEP257](#) “Docstring Conventions”
- [PEP287](#) “reStructuredText Docstring Format”

All contribution should be properly documented and tested with [unittest](#) and/or [doctest](#).

[pylint](#), [pep8](#) and [pyflakes](#) should also be used to check the quality of each module.

Changes

- Web site: http://www.jdhp.org/projects_en.html#vor12
- Online documentation: <http://vor12.readthedocs.org>
- Source code: <https://github.com/volab/vor12>
- Issue tracker: <https://github.com/volab/vor12/issues>
- VoR12 on PyPI: <https://pypi.python.org/pypi/vor12>

In collaboration with <http://www.vorobotics.com>

CHAPTER 4

Indices and tables

- genindex
- modindex
- search

CHAPTER 5

Credits

Created by Jérémie Decock.

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License

The VoR12 library is provided under the terms and conditions of the [MIT license](#):

The MIT License

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