
loop-dhs Documentation

Release unknown

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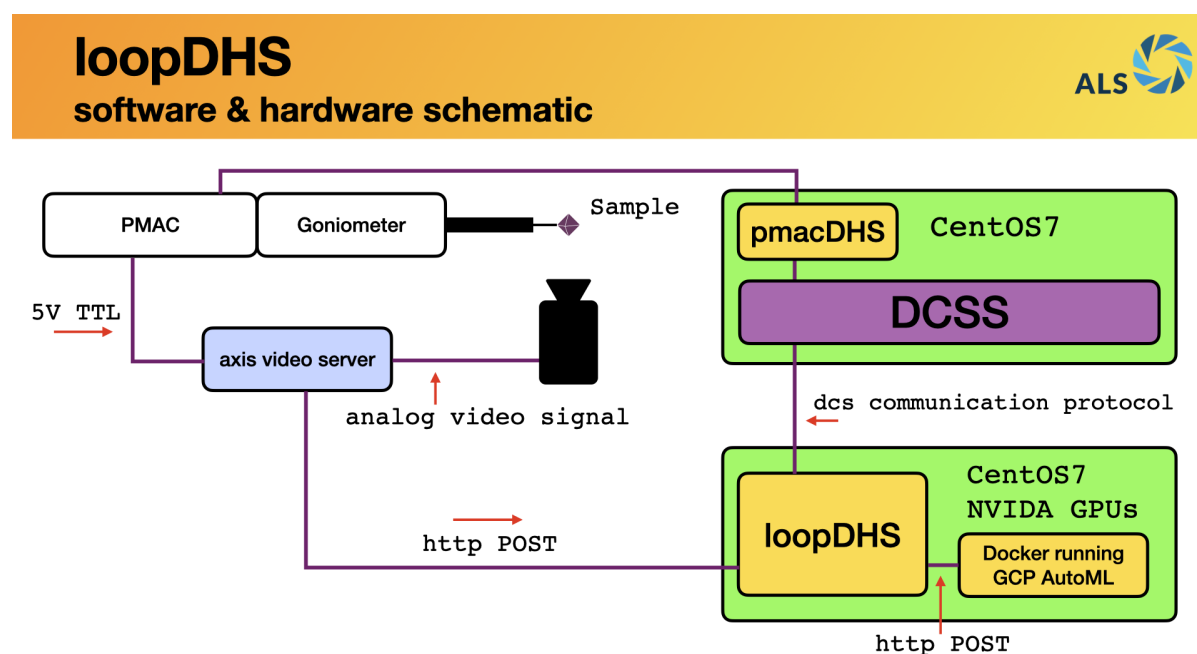
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This is the documentation of **loop-dhs**.

INSTALLATION

loop-dhs is not a standalone software project. It is designed to work in conjunction with [DCSS](#) Control system, a properly configured [AXIS Video](#) server, and an edge-deployed Google [AutoML](#) inference model running on a local docker instance.



This shows a conceptual schematic of how the various pieces of hardware and software are configured at beamline 8.3.1 to support loopDHS.

1.1 Dependencies

- `virtualenv`
- `python 3.8` (might work on 3-6-3.7, I haven't tested)
- `pydhsfw`

1.2 Install

Checkout the code from [GitHub](#):

```
$ git clone git@github.com:dsclassen/loop-dhs.git
$ cd loop-dhs
```

Setup and source a python virtualenv:

```
$ virtualenv -p python3.8 .env
$ source .env/bin/activate
$ pip install --upgrade pip
```

Install into local python environment:

```
$ pip install -e .
```

Note: I have not yet figured out how to add `pydhsfw` to the install dependencies in `setup.cfg`. You need to install `pydhsfw` dependency manually for now.

Install `pydhsfw` manually for now:

```
$ cd some_working_dir
$ git clone git@github.com:tetrahedron-technologies/pydhsfw.git
$ cd pydhsfw
$ pip install -e .
```


2.1 loop_dhs package

2.1.1 Submodules

2.1.2 loop_dhs.automl_image module

class loop_dhs.automl_image.**AutoMLImage**(*message*, *output_dir*)

Bases: `object`

adorn_image()

draw_bounding_box()

Draw the AutoML bounding box and loop tip crosshair overlaid on a JPEG image.

class loop_dhs.automl_image.**AutoMLResult**(*result*: *list*)

Bases: `object`

Just the values to be sent to DCSS

2.1.3 loop_dhs.loopDHS module

2.1.4 loop_dhs.loop_dhs_config module

2.1.5 loop_dhs.loop_image module

2.1.6 Module contents

LICENSE

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CONTRIBUTORS

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CHANGELOG

5.1 Version 0.1

- Feature A added
- FIX: nasty bug #1729 fixed
- add your changes here!

INDICES AND TABLES

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