

# CHANGELOG

**Version:** 2017-05-30  
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## CHANGELOG

This is the changelog for plc -- PlasmaLabControl.

Due to early development status the version numbers are dates.

## **plc-2017-05-30.tar.gz**

- updated documentation and license information
- updated INSTALL.txt with packages for Ubuntu 14.04 "Trusty Tahr"
- bug fix in environment\_sensor\_5\_logger.py negative dewpoint/temperature was not accepted
- corrected human readable time in logfile from time.gmtime() to time.localtime()
- changed using PIL instead of deprecated Image: \* Image -> PIL.Image \* ImageDraw -> PIL.ImageDraw \* ImageEnhance -> PIL.ImageEnhance \* ImageMath -> PIL.ImageMath \* ImageTk -> PIL.ImageTk

## **plc-2014-07-22.tar.gz**

- enhanced/corrected documentation

## **plc-2014-??-??tar.gz**

- added many things; updated, enhanced and corrected many parts

## **plc-2013-??-??tar.gz**

- added many things; updated, enhanced and corrected many parts

## **plc-2012-12-??tar.gz**

- added small script logs2housekeeping.py
- enhanced rawmovies2recordings.py to accept bad data, e. g.:
  - log data out of interesting time range
  - bad log data
  - empty rf data

## **plc-2012-12-05tar.gz**

- wrote plc.py completely new
  - changed file handler from RotatingFileHandler to WatchedFileHandler
  - added tabs alias ttk.Notebook
  - removed some programs:
    - py-console.py
    - Zyflex\_RF-Generator.py
    - DodecahedronRF\_Gen.py
  - added some programs:
    - camera\_client.py
    - digital\_controller\_client.py

- multi\_purpose\_controller\_client.py
- plc\_viewer.py
- rawmovieviewer.py
- switched to digital\_controller\_server.py
- switched to multi\_purpose\_controller\_server.py
- switched to camera\_server.py
- Because of new digital\_controller\_server.py, multi\_purpose\_controller\_server.py and camera\_server.py in the background, we need a new default config file.
- corrected locking feature in camera\_server.py
- corrected locking feature in multi\_purpose\_controller\_server.py
- set trigger per default in multi\_purpose\_controller\_client.py to on
- corrected locking feature in digital\_controller\_server.py
- set trigger per default in digital\_controller\_client.py to on
- The modules fcntl and subprocess are now not needed. But this can change in future.

## plc-2012-11-22.tar.gz

- improved camera\_server.py
  - added AOI (area of interest)
  - making it more thread safe by adding some more threading.Lock()'s
- improved camera\_client.py
  - added AOI (area of interest)
  - added histogram
  - create crop function by mouse
  - added scrollbars around the picture
- improved the documentation plc\_manual.rst

## plc-2012-11-09.tar.gz

- fix in camera\_server.py
  - Set packet size to be evenly divisible by  
[http://www.alliedvisiontec.com/de/support/knowledge-base.html?tx\\_nawavtknowledgebase\\_piList\[uid\]=58](http://www.alliedvisiontec.com/de/support/knowledge-base.html?tx_nawavtknowledgebase_piList[uid]=58)
- improved camera\_server.py
- improved camera\_client.py
- fix digital\_controller\_server.py
  - Use threading.Lock() by dispenser shaking to disable changes while shaking.
  - The time to sleep in shake\_dispenser is now definitively positiv.
- fix digital\_controller\_client.py
  - Speeling somewhere.

## **plc-2012-11-02.tar.gz**

- improved camera\_server.py
- improved camera\_client.py
- improved acceleration\_sensor\_logger.py
- improved multi\_purpose\_controller\_server.py

## **plc-2012-10-23.tar.gz**

- improved camera\_server.py
  - Using of os.statvfs leads to necessary unix systems. This means the camera\_server.py will not run under other systems than unix. This could be changed by using this feature only on sufficient systems; but I see no needfulness for running on other systems.
- improved camera\_client.py
- added small script acceleration\_sensor\_logger.py

## **plc-2012-10-15.tar.gz**

- added camera\_server.py
- added output of info.txt in rawmovies2recordings.py
- added camera\_client.py

## **plc-2012-10-10b.tar.gz**

- fixed a bug in rawmovies2recordings.py
  - Different files were always put together in one zip-archiv; now this is only done, iff the timestamps of the first and last frame is greater 1 second.

## **plc-2012-10-10a.tar.gz**

- added multi\_purpose\_controller\_server.py
- added multi\_purpose\_controller\_client.py
- fixed a bug in plc\_viewer.py
  - default value for absolutscale was not correctly handled
- added commandline flag create\_info\_graphics to plc\_viewer.py

## **plc-2012-10-05.tar.gz**

- added digital\_controller\_server.py
- added digital\_controller\_client.py

## **plc-2012-10-02a.tar.gz**

- bug fix in plc\_viewer.py

## **plc-2012-10-01.tar.gz**

- plc\_viewer.py improved

## **plc-2012-09-29.tar.gz**

- Viewing of log-files added to plc\_viewer.py
- Viewing of brightness and changings added to plc\_viewer.py

## **plc-2012-09-28.tar.gz**

- Added scripts:
  - plc\_viewer.py
  - rawmovies2recordings.py
  - rawmovieviewer.py

## **plc-2012-09-10a.tar.gz**

- Corrected pattern\_intervall\_length for the microcontroller.
- Switches in config 'RF-Generator', 'pattern\_file' the nothing value from "-" to "-1"
- Fixed problem with channels greater 4 by setpoints. (The right variable is c and not i for the channel array.)

## **plc-2012-09-09b.tar.gz**

- Manual enlarged and corrected
- Shutter speed can now be changed by plc by config file or by the GUI.

## **plc-2012-09-09a.tar.gz**

- INSTALL description enlarged.
- Did spell-check in the manual.

## **plc-2012-09-08a.tar.gz**

- Changelog added.
- Section/Subsection structure corrected in the manual.
- Table of contents added to the manual.

## **plc-2012-09-07c.tar.gz**

- Manual enlarged.
- Software\_screenshots updated.

## **plc-2012-09-07b.tar.gz**

- Bugfix in "rf\_generator\_controller.py":
  - "close" button did not close the serial device; now fixed.
- Intervall length for computer pattern corrected to a reasonable value of 50 milliseconds ( $10^{-3}$  sec) in "example\_pattern\_12\_channels.cfg" -- see manual.
- Software pattern checked with logic analyser in a RF-Generator. It is working.  
Intervall length less than 50 milliseconds leads to indefinite delays between 2 states.
- Microcontroller pattern checked with logic analyser in a RF-Generator. It is working.

## **plc-2012-09-07a.tar.gz**

- Bugfix in "rf\_generator\_controller.py":
  - Software pattern is now working.
- Completed the pattern control implementation in "rf\_generator.py". It is now working.
- More switches in the setpoint functionality are now implemented. Therefore theses new switches added to "example\_setpoints.cfg".