IPread Documentation

Release 0.1.2

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Overview

There are currently 2 ways of using this package as shown here.

1.1 Stand-alone command-line-interface

The CLI can be used for a fast preview of image plate files. The following documentation is shown by running *ipread -h*:

```
usage: ipread.py [-h] [-V] [-l] [--log] [-s [filename]] [-v] file [file ...]

Previews the Image Platereadout(s) using matplotlib.

positional arguments:
  file           input file(s) - can be *.inf or *.img or without extension.

optional arguments:
  -h, --help     show this help message and exit
  -V, --version  show program's version number and exit
  -l             list properties of assembled image, dont create any plots. No
                 matplotlib is needed.
  --log          creates a log10 plot instead of a linear one.
  -s [filename]  save picture of data using matplotlib. If this is given, no
                 interactive window will appear. filename will be auto-
                 generated if omitted.
  -v, --verbose  Verbose output. This shows an additional plotto verify the
                 scalefactors calculated
```

Assuming, that all *.inf* files (together with their *.img* pendants) in the current directory are multiple scans of the same image plate, the following command would try to create a single HDR Image out of them and save it as *output.png*.

```
ipread *.inf -s output.png
```

1.2 Using the functionality in your python software

The *ipread* module can also be imported as a package via

```
import ipread
```

Please see *IPread Module* for further documentation.

CHAPTER 2

IPread Module

CHAPTER 3

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